

A SURVEY OF BUILDING REGULATIONS WORLDWIDE
3rd edition 1989

Preface

This report is the result of a survey that has been carried out 1989 in compliance with the work within CIB Working Commission W57 Building Documentation and Information Transfer, Working Group 11 (WG 11). Two earlier editions of the report has been published as a result of a survey 1986.

This third edition contains entries from 44 countries out of which 11 are new entries and 20 are updated compared to the earlier editions. Responses from previous survey (1986) are included for those countries which has failed to respond to the 1989 survey.

Our gratitude goes to all those CIB-members and representatives of authorities, standardisation organizations and others in many countries which has generously responded to the questionnaires.

Stockholm in september 1989

Bengt Eresund
(Managing Director)
BYGGDOK - The Swedish Institute of Building Documentation

A Survey of BUILDING REGULATIONS WORLD WIDE

CONTENTS

PREFACE	I
COUNTRY REPORTS.....	1-293

Country	Updated	Page	Country	Updated	Page	Country	Updated	Page
Algeria	(1986)	1	Ghana	(1986)	110	Norway	(1986)	210
Australia	(1989)*	7	Greece	(1989)*	117	Philippines	(1989)	216
Austria	(1989)*	13	Hungary	(1989)*	123	Poland	(1989)	223
Belgium	(1989)**	20	Iceland	(1989)	129	Portugal	(1989)	228
Brasil	(1989)	26	Iran	(1989)*	135	Spain	(1989)	234
Canada	(1986)	32	Iraq	(1989)*	142	Sweden	(1989)	240
China	(1989)	40	Israel	(1986)	149	Switzerland	(1986)	246
Cuba	(1989)*	46	Italy	(1989)*	154	Tanzania	(1989)	252
Czechoslovakia	(1989)*	52	Japan	(1989)	160	Thailand	(1989)	258
Denmark	(1989)	58	Kenya	(1989)*	167	United Kingdom (England & Wales)	(1987)	264
Egypt	(1989)	69	Korea, Republic of	(1986)	173	United Kingdom (Northern Ireland)	(1987)	270
Ethiopia	(1986)	75	Malawi	(1989)*	180	United Kingdom (Scotland)	(1987)	276
Federal Republic of Germany	(1989)**	81	Mexico	(1986)	186	USA	(1989)	282
Finland	(1989)	87	Netherlands	(1989)	192	Yugoslavia	(1989)	288
France	(1986)	93	New Zealand	(1989)	198			
German Democratic Republic	(1989)	99	Nigeria	(1989)	204			

* New entry in this edition

** No change in regulations system since previous entry 1986

INDEX	III
-------------	-----

CIB W57/1986-D5-14
QUESTIONNAIRE

Building regulations and standards in ALGERIA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M		
Standards	0		

(Please mark in appropriate box: M for mandatory, 0 for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

- French : DTU, NF
- ISO

I d. Short description of the system of building regulations and related documents.

Regulations for building construction are issued by The Organisme de Contrôle Technique de la Construction CTC and Centre National d'Etude et de Recherche Intégrés dans le bâtiment CHERIB. The regulations are published by powers of the building Ordinance issued by the Government Ministère. For certain civil engineering and special construction works such as bridges, roads, railroads, air raid shelters etc regulations are issued by various government agencies.

French and ISO standards are referred to in the regulations as examples of technical solutions (deemed-to-satisfy solutions) and optional. INAPI (Institut de la Normalisation Algérienne et de la propriété Industrielle) is a government agency for standards.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- (1) Organization: Organisme de Contrôle Technique de la Construction (CTC)
 Address: Rue KADDOUR RAHIM Hussein-Dey ALGER ALGERIE
- (2) Organization: Centre National d'Etude et de Recherche Intégrés dans le Bâtiment (CHERIB)
 Address: SOUIDANIA Wilaya de TIPAZA ALGERIE

Phone: 77.23.45 à 48
 Telex: 65019 H.DEY DZ

Main type of regulations: Règlement de Construction (Conception et Calcul)

- (3) Organization: Institut de la Normalisation Algérienne et de la Propriété Industrielle INAPI
 Address: Rue HAMMOU MOUSSA ALGER - ALGERIE

Phone: 63.51.80
 Telex:

Main type of regulations: Normes Algériennes

Phone: 41.84.31 - 41.83.68
 Telex:

Main type of regulations: Matériaux de Constructions Confort Habitat

Address:

Phone:

Telex:

Main type of Regulations:

 I I b. Bodies providing information about building regulations and standards.

- | | | | |
|-----|-------------------------|-----|-------------------------|
| (1) | <u>Organization:</u> | (2) | <u>Organization:</u> |
| | C T C | | C N E R I B |
| | <u>Address:</u> | | <u>Address:</u> |
| |
 | | |
| | <u>Phone:</u> | | <u>Phone:</u> |
| |
 | | |
| | <u>Telex:</u> | | <u>Telex:</u> |
| |
 | | |
| | <u>Main subjects:</u> | | <u>Main subjects:</u> |
| |
 | | |
| | <u>Type of service:</u> | | <u>Type of service:</u> |

 I I c. Organizations where building regulations can be bought or aquired.

- | | | | |
|-----|--------------------------------|-----|--------------------------------|
| (1) | <u>Organization:</u> | (2) | <u>Organization:</u> |
| | I N A P I | | C T C |
| | <u>Address:</u> | | <u>Address:</u> |
| |
 | | |
| | <u>Phone:</u> | | <u>Phone:</u> |
| |
 | | |
| | <u>Telex:</u> | | <u>Telex:</u> |
| |
 | | |
| | <u>Main type of documents:</u> | | <u>Main type of documents:</u> |
| |
 | | |
| (3) | <u>Organization:</u> | (4) | <u>Organization:</u> |
| | C N E R I B | | |
| | <u>Address:</u> | | <u>Address:</u> |
| |
 | | |
| | <u>Phone:</u> | | <u>Phone:</u> |
| |
 | | |
| | <u>Telex:</u> | | <u>Telex:</u> |
| |
 | | |
| | <u>Main type of documents:</u> | | <u>Main type of documents:</u> |

 I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

 I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

Publications CNERIB

- 1.) Catalogue national de menuiserie Janvier 1982
- 2.) Catalogue national des équipements sanitaires juillet 80
- 3.) Catalogue national des produits et équipements électriques 1982.

 I I I b. Databases

- | | | | |
|-----|-----------------------|-----|-----------------------|
| (1) | <u>Database name:</u> | (2) | <u>Database name:</u> |
| |
 | | |
| | <u>Producer:</u> | | <u>Producer:</u> |
| |
 | | |
| | <u>Main contents:</u> | | <u>Main contents:</u> |

 I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

IV b. Loading: (Including wind, snow and earthquake loads)

RPA 81 Règlement Parasismique Algérien 1981 (CTC)
Editions ENAL

IV c. Concrete:

IV d. Steel:

IV e. Wood:

IV f. Foundations:

IV g. Drainage:

IV h. Fire:

IV i. Electrical installations in buildings:

IV j. Water and sewerage:

IV k. Ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

V b. Introduction to the construction sector:

(E.g. Lists of adresses to authorities, organizations and companies; Descriptions, statistics).

Recueil des textes législatifs en matière d'urbanisme et d'aménagement du territoire 1981 (CNERIB)

V c. Further reading about building regulations etc:

Questionary completed by:

B. REBZANI
DRIT/CTC
RUE KADDOUR RAHIM Hussein Dey ALGER
Date:
1986.07.07

QUESTIONNAIRE

Building regulations and standards in AUSTRALIA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws		M	
Codes/regulations		M	
Standards		O	

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Yes No

Comments:

Australia is a federation of sovereign states & territories each of which enacts legislation requiring minimum standards of safety, health & amenity in buildings. The Building Code of Australia (BCA) provides a model for uniform technical requirements.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM..)

Comments:

Building products and systems that meet international standards can, under Australian systems of appraisal and accreditation, be deemed to comply with the BCA. Only limited reference to ASTM & ISO standards is made in the BCA but it is the policy of the Standards Association to conform to ISO models even when this results in a degradation.

Id. Brief description of the system of building regulations and related documents.

Regulations specifying the technical requirements of buildings are enacted by the eight states & territories, each of which adopts the BCA. Technical requirements are therefore uniform except for variations dictated by geography (tropical cyclones do not occur in southern Australia; alpine conditions do not occur in northern Australia).

Administrative regulations (conferring power to approve & control on the municipalities) is enacted by each state & territory individually.

The BCA is largely performance orientated and invokes Australian standards as the means of predicting performance.

A system of national accreditation supports the performance approach and encourages innovation.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	Australian Uniform Building Regulations Co-ordinating Council GPO Box 9839 Canberra AGT 2601	(2)	Standards Association of Australia P.O. Box 458 North Sydney NSW 2059
-----	--	-----	---

Phone: (062) 762 334
 Fax: (062) 762 427
 Telex: AA 62654

Main type of regulations: Building Code of Australia

Phone: (02) 963 4111
 Fax: (02) 959 3896
 Telex: AA 26514

Main type of regulations: Australian Standards only

(3)

Organization:

Address:

Phone:
 Fax:
 Telex:

Main type of regulations:

(4)

Organization:

Address:

Phone:
 Fax:
 Telex:

Main type of regulations:

Ib. Bodies providing information on building regulations and standards.

<p>(1) Organization: AUBRCC see IIA (1) Address: Phone: Fax: Telex: Main subjects: Type of service:</p>	<p>(2) Organization: CSIRO - National Building Technology Centre Address: P.O. Box 30 Chatswood NSW 2057 Phone: (02) 888 8888 Fax: (02) 888 9335 Telex: AA 123400 Main subjects: All technical aspects of buildings. (NBTS is the official technical adviser to AUBRCC) Type of service: Comprehensive advisory, research, appraisal and testing services.</p>
--	---

Ic. Organizations from which building regulations are available.

<p>(1) Organization: National Building Technology Centre Address: see IIB (2) Phone: Fax: Telex: Main type of documents: Building Code of Australia Commentary on the BCA (in preparation) (3) Organization: Compendia on complying products (in preparation)</p>	<p>(2) Organization: Address: Phone: Fax: Telex: Main type of documents: (4) Organization: Address: Phone: Fax: Telex: Main type of documents:</p>
--	---

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

The Standards Association of Australia publishes an annual catalogue of standards.

IIIb. Databases.

<p>(1) Database name: Producer: Main contents:</p>	<p>(2) Database name: Producer: Main contents:</p>
---	---

IIIc. Other systems of information.
(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

The Building Code of Australia (1988) is the technical basis of all mandatory building requirements in Australia.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

BCA Part 3 invokes Australian Standards 1170.1 & 2 (dead, live, snow & wind loads). AS 2121 (earthquake).

IVc. Concrete:

A/

BCA Specification 2.3 (Fire-resistance) and Part B 1.3 (Structure) invokes Australian Standard 3600.

IVd. Steel:

BCA Spec A2.3, Part B1.3, AS 1250 & 1538.

Masonry: BCA Spec A2.3, Part B.3, AS 3700.

IVe. Wood:

BCA Part B1.3, AS 1720 & 1684

IVf. Foundations:

BCA Part B1.3, AS 2870.1

IVg. Drainage:

BCA Part F1

IVh. Fire:

BCA Spec A2.3, A2.4, Section C (passive), Section E (active), Part G3 (atria), Part H (theatres).

IVi. Electrical installations in buildings:

Australian Standard 3000

IVj. Water and sewerage:

Uniform Plumbing Code - Water Supply
Uniform Plumbing Code - Sanitary Drainage
National Building Technology Centre (1983)

IVk. Heating and ventilation:

BCA Part F4, Australian Standard 1668.2

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Year Book of Australia - Australian Bureau of Statistics
(1988 - annual)

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

Papers from:

Master Builders' Federation of Australia
217 Northbourne Avenue, Turner, ACT, 2601.

Housing Industry Association
79 Constitution Avenue, Reid, ACT, 2601

Australian Bureau of Statistics - Information Services
P.O. Box 10, Belconnen, ACT, 2616.

Vc. Further reading about building regulations etc.

Various papers by CSIRO - National Building Technology Centre.

Questionnaire completed by:

Geoffrey Anderson
CSIRO - National Building Technology
Centre
P.O. Box 30
Chatswood NSW 2057

Date: 24/5/88

QUESTIONNAIRE

Building regulations and standards in Austria (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	Bundesländer		
	National (1)	Regional (2)	Local (3)
Laws	M	M	
Codes/regulations	Not applicable	Not applicable	
Standards	Usually O	Usually O	

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:
 In form of standards

Yes No

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

Some DIN standards are recommended in Austria

Id. Brief description of the system of building regulations and related documents.

Each federal Country (9 Bundesländer) has a separate building regulation which has the character of a law

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)
 Organization: All federal Authorities
 see attached list
 Address:

(2)
 Organization: Ministry of Economic
 Affairs
 Sektion V Hochbau
 Stubenring 1 A1010 Vienna

Phone:
 Fax:
 Telex:

Phone: 75000
 Fax:
 Telex: 111780

Main type of
 regulations:

Main type of
 regulations:

(3)
 Organization: Austrian Standard
 Institute
 Address: Heinestrasse 38 A 1021
 Vienna

(4)
 Organization:
 Address:

Phone: 267535
 Fax: 267552
 Telex: 115960

Phone:
 Fax:
 Telex:

Main type of
 regulations:

Main type of
 regulations:

IIb. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Building Divisions in Federal Authorities	Organization: Austrian Standard Institute
Address: See attached list	Address: Heinestrasse 38 A1021 Vienna
Phone:	Phone: 267535
Fax:	Fax: 267552
Telex:	Telex: 115960
Main subjects:	Main subjects:
Type of service:	Type of service:

IIc. Organizations from which building regulations are available.

(1)	(2)
Organization: Federal Authorities	Organization: Austrian Standard Institute
Address: See attached list	Address: Heinestrasse 38 A 1021 Vienna
Phone:	Phone: 267535
Fax:	Fax: 267552
Telex:	Telex: 115960
Main type of documents:	Main type of documents:
(3)	(4)
Organization:	Organization:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents:	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Catalogue of Austrian Standards with German and English titles
(ÖNORM Verzeichnis)

Published annually by the Austrian Standard Institute

IIIb. Databases.

(1)	(2)
Database name: References to Austrian Standards and technical Guidelines (ÖNORM mit Richtlinien)	Database name:
Producer:	Producer:
Main contents: Abstracts	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Zeitschrift ÖNORM periodical published monthly by the Austrian Standard Institute

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

Each of the 9 Federal Regulations (Bauordnungen)

IVa. General: (E.g important laws or main code documents)

National Regulations for the State Buildings and Roads

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

Refer to Standards see IIIb IRB

IVc. Concrete:

Refer to Standards see IIIb IRB

IVd. Steel:

Refer to Standards see IIIb IRB

IVe. Wood:

Refer to Standards see IIIb IRB

IVf. Foundations:

Refer to Standards see IIIb IRB

IVg. Drainage:

Refer to Standards see IIIb IRB

IVh. Fire:

Refer to Standards see IIIb IRB

IVi. Electrical installations in buildings:

Refer to Standards see IIIb IRB

IVj. Water and sewerage:

Refer to Standards see IIIb IRB

IVk. Heating and ventilation:

Refer to Standards see IIIb IRB

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Can be requested from Österreichisches Statistisches Zentralamt
Hintere Zollamtstrasse 2b A 1030 Vienna

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations
and companies; descriptions; statistical data)

Österreichische Baudokumentation ODW to be requested from IRB

Vc. Further reading about building regulations etc.

Questionnaire completed by:

INGMAR ÖFVERHOLM
Hohe Warte 27
A 1190 WIEN
☎ 0222 - 37 31 54

Date: 18.4.1989

LIST

of Federal Authorities in Austria dealing with Building Regulations

Amt der Burgenländischen Landesregierung Amt der Wiener Landesregierung
Baurechtsabteilung VI/1

Landhaus
A 7000 Eisenstadt

Neues Rathaus
A 1082 Wien

Amt der Kärntner Landesregierung

Arnulfplatz 1
A 9010 Klagenfurt

Amt der NÖ Landesregierung

Herrengasse 9 - 13
A 1014 Wien

Amt der OÖ Landesregierung

Klosterstrasse 7
A 4020 Linz

Amt der Salzburger Landesregierung

Chiemseehof
A 5010 Salzburg

Amt der Steiermärkischen Landesregierung

Landhaus
A 8011 Graz

Amt der Tiroler Landesregierung

Maria Theresienstrasse 43
A 6020 Innsbruck

Amt der Vorarlberger Landesregierung

Römerstrasse 15
Landhaus
A 6901 Bregenz

QUESTIONNAIRE

Building regulations and standards in Belgium (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M	M	
Standards	O		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No
Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SBC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I a. Short description of the system of building regulations and related documents.

Standards are issued by the Belgian Institute of Standardisation (IBN).
Technical Specifications are produced by the Ministry of Public Works and other State (or Regional) Authorities.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|---|
| (1) Organization:
IBN
Address:
Avenue de la Brabançonne 29
B - 1040 BRUXELLES
Phone:
02/734.92.05
Telex:
Main type of regulations:
Standards | (2) Organization:
Ministry of Public Works
Administration for Buildings
Address:
Résidence Palace
Rue de la Loi 155
B - 1040 BRUXELLES
Phone:
02/733.96.70
Telex:
Main type of regulations:
Technical specifications for buildings, bridges, ... |
| (3) Organization:
Address:
Phone:
Telex:
Main type of regulations: | (4) Organization:
Address:
Phone:
Telex:
Main type of Regulations: |

 I I b. Bodies providing information about building regulations and standards.

- | | | | |
|-------|---|-------|--|
| (1) | <u>Organization:</u>
Idem II a (1)(2)
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main subjects:</u>

<u>Type of service:</u> | (2) | <u>Organization:</u>
CSTC
<u>Address:</u>
Rue du Lombard, 41
1000 BRUSSELS
<u>Phone:</u>
02/5136050
<u>Telex:</u>
<u>Main subjects:</u>

<u>Type of service:</u> |
|-------|---|-------|--|

 I I c. Organizations where building regulations can be bought or aquired.

- | | | | |
|-------|---|-------|---|
| (1) | <u>Organization:</u>
Idem II a (1)(2)
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> | (2) | <u>Organization:</u>
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> |
| (3) | <u>Organization:</u>
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> | (4) | <u>Organization:</u>
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> |

 I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

 I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

- 1) IBN - Catalogue
- 2) Catalogue of Technical Specifications for Buildings (STS) (see IIa - 2)

 I I I b. Databases

- | | | | |
|-------|--|-------|--|
| (1) | <u>Database name:</u>

<u>Producer:</u>

<u>Main contents:</u> | (2) | <u>Database name:</u>

<u>Producer:</u>

<u>Main contents:</u> |
|-------|--|-------|--|

 I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

See IBN - Catalogue

IV b. Loading: (Including wind, snow and earthquake loads)

IV c. Concrete:

IV d. Steel:

IV e. Wood:

IV f. Foundations:

IV g. Drainage:

IV h. Fire:

IV i. Electrical installations in buildings:

IV j. Water and sewerage:

IV k. Ventilation:

V . BIBLIOGRAPHY
(Suggestions for literature of interest).

V a. General information on the country:

V b. Introduction to the construction sector:
(E.g. Lists of adresses to authorities, organizations and companies; Descriptions, statistics).

V c. Further reading about building regulations etc:

Questionary completed by: H. MOTTEU
C.S.T.C. - Building Research Institute
Rue du Lombard, 41
1000 BRUSSELS
BELGIUM

Date: 1986.05.29

(No changes 1989)

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in Brazil (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws			M
Codes/regulations		M	M
Standards	O/M*		

* Mandatory standards are those officially registered as Brazilian Standards (NBR) at the INMETRO. Optimal standard are those issued by the ABNT.

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Regional rules have developed in some states (e.g. São Paulo, Minas Gerais) for assisting municipalities without resources to develop their own codes.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

When applicable; Brazilian Standards reflect ISO standards (specially for building services). For those standards concerning building rationalization (modular coordination, tolerances), European Standards (both from EEC and Scandinavia) are generally utilised.

Id. Short description of the system of building regulations and related documents.

- a) Mandatory standards issued by INMETRO.
- b) Optimal standards issued by ABNT. A special committee (CB-2/COBRACON) deals with building standards.
- c) State sanitary regulation establishing minimum standards for housing/building whenever municipal codes are not available.
- d) Municipal codes which are locally established. Individual efforts have been made to have a unified building code for regions but they have not been formally accepted as yet.
- e) For official programmes on social housing special standards may be applied, sometimes liberalizing locally established specifications.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|---|
| <p>(1) Organization: Instituto Nacional de Metrologia, Normalização e Qualidade Industrial
Address: Praça Mauá, 7-11/12/13º andar
20.081 - Rio de Janeiro - RJ.
Phone: (021) 233-1331
Fax:
Telex: (021) 34599 TNNQ BR
Main type of regulations: Brazilian standards</p> | <p>(2) Organization: Associação Brasileira de Normas Técnicas - ABNT
Address: Av. 13 de maio, 13 - 28º andar
20.031 - Rio de Janeiro - RJ.
Phone: (021) 220-4455
Fax:
Telex: (021) 34333 BR
Main type of regulations: Brazilian standards</p> |
| <p>(3) Organization:
Address:

Phone:
Fax:
Telex:
Main type of regulations:</p> | <p>(4) Organization:
Address:

Phone:
Fax:
Telex:
Main type of regulations:</p> |

IIb. Bodies providing information on building regulations and standards.

- | | |
|--|--|
| <p>(1) Organization: Instituto de Pesquisas Tecnológicas do Estado de São Paulo S/A - IPT</p> <p>Address:
Cidade Universitária
Caixa Postal 7141
01000 - São Paulo - SP.
Phone: (011) 268-2211</p> <p>Fax:</p> <p>Telex: (011) 83144 INPT BR</p> <p>Main subjects:
Various</p> <p>Type of service:
Question - answer service</p> | <p>(2) Organization: Associação Brasileira de Normas Técnicas - ABNT/COBRACON</p> <p>Address:
Rua Marquês de Itú, 88 - 8º andar
01223 - São Paulo - SP.</p> <p>Phone: (011) 220-4544</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:
Various</p> <p>Type of service:</p> |
|--|--|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|--|---|
| <p>(1) Organization: Associação Brasileira de Normas Técnicas - ABNT</p> <p>Address:
Av. 13 de maio, 13 - 28º andar
20.031 - Rio de Janeiro - RJ.</p> <p>Phone: (021) 220-4455</p> <p>Fax:</p> <p>Telex: (021) 34333 BR</p> <p>Main type of documents:
Standards</p> | <p>(2) Organization: -</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |
| <p>(3) Organization:</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> | <p>(4) Organization:</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- Catalogo de normas ABNT. (Catalogue of Brazilian Standards) issued by the ABNT (Covers various subjects).
- Informativo INTEC - published monthly by the Standards Deptº of the IPT (various subjects).

IIIb. Databases.

- | | |
|--|--|
| <p>(1) Database name:</p> <p>Producer:</p> <p>Main contents:</p> | <p>(2) Database name:</p> <p>Producer:</p> <p>Main contents:</p> |
|--|--|

Obs: A Databank on Standards is being produced by the Standards Department of the IPT.

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

- Projetos da ABNT em votação. (ABNT's projects being voted - published periodically by the Standards Deptº of the IPT (various subjects).
- Boletim SINORTEC - published periodically by the Standards Deptº of the IPT (news on various subjects).
- Informativo ABNT - published periodically by the ABNT- (various subjects).
- Projetos em estudo (Projects being examined) published monthly by the ABNT (various subjects).
- Revista ABNT. (ABNT review) - published periodically by the ABNT. (various subjects).
- Informativo COBRACON - (news about standards referring to civil construction) issued by COBRACON/ABNT.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

Building code of the São Paulo Municipality Sanitary Code of the State of São Paulo (Federal law on municipal regulations still in discussion).

IVb. Loading: (Including wind, snow and earthquake loads)

NBR-6123 - 1980 (wind loads)

IVc. Concrete:

NBR-8681 - 1984		
NBR-6118 - 1982	NBR-5738 - 1984	NBR-9605 - 1987
NBR-6120 - 1980	NBR-9832 - 1987	NBR-8798 - 1985
NBR-7173 - 1982	NBR-9833 - 1987	NBR-6123 - 1987

IVd. Steel:

NBR-8800 - 1986 (steel structures)
Distribution: ABNT

IVe. Wood:

NB-11 - 1951 (wood structures)
Distribution: ABNT

IVf. Foundations:

NBR-6122 - 1980 (Foundations design and performance)
Distribution: ABNT

IVg. Drainage:

NBR-8216 - 1983 (terms used in drainage and irrigation)
Distribution: ABNT

IVh. Fire:

EB-24
NBR-9442
NBR-6135
NBR-9077

IVh. Fire:

NBR-5628 - 1980 (determination of the structural building components fire resistance)
Distribution: ABNT

IVi. Electrical installations in buildings:

NBR-5410 - 1980 (low tension electrical installation)

IVj. Water and sewerage:

NBR-8160 - 1985 (building installation, sewerage)
Distribution: ABNT
NBR-5626 - 1982 (buildings, water services)
Distribution: ABNT
NBR-7229 - 1982 (septic tanks)
Distribution: ABNT

IVk. Ventilation:

NBR-6401 - 1980 (air conditioning; confort)
Distribution: ABNT

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

IBGE - Anuário Estatístico e PNAD

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

- COBRACON/ABNT
Rua Marquês de Itú, 88 - São Paulo - SP.
- SINDUSCON-SP
Rua Dona Veridiana, 55 - São Paulo - SP.

Vc. Further reading about building regulations etc.**Questionary completed by:** Ricardo Toledo Silva

IPT - Instituto de Pesquisas Tecnológicas do Estado de São Paulo S/A.
Cidade Universitária - C.P. 7141 - 01051 - São Paulo - SP.
Brazil

Date: April, 12, 1989

QUESTIONNAIRE

Building regulations and standards in CANADA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws		M	M
Codes/regulations		M	M
Standards		M	M
Question is ambiguous - Model code is prepared nationally but is enacted provincially or locally depending on each province. Standards are also prepared nationally and are referenced in the model code.			

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

National Building Code of Canada is adopted either provincially or locally, depending on the province.

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments: Canadian standards are used if available. If not, reference is made to U.S. standards. The National Building Code of Canada references standards published by the Canadian Standards Association, the Canadian General Standards Board, Canadian Gas Association, Underwriters Laboratories of Canada, American Society for Testing and Materials and the National Fire Protection Association.

I d. Short description of the system of building regulations and related documents.

The regulation of buildings is the responsibility of provincial governments who may delegate this authority to municipalities. The National Research Council of Canada through an Associate Committee on the National Building Code issues a model code to encourage uniformity in health and safety related requirements. In provinces that have enacted provincial codes (the majority), they have enacted the NBC in some amended form. Those without provincial codes generally encourage or force their municipalities to adopt the NBC. It is estimated that over 90% of building construction follow some version of the NBC.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| <p>(1) Organization:
National Research Council

Address:
Montréal Road
Ottawa, Ontario
K1A 0R6

Phone:
(613) 993-9960
Telex:
053-3145
Main type of regulations:
Model Codes (NBC, NFC, etc)
Organization:
Canadian Standards Association

Address:
178 Rexdale Blvd.
Rexdale, Ontario
M9W 1R3

Phone:
(416) 947-4044
Telex:
06-989344
Main type of regulations:
National Standards on a variety of subjects</p> | <p>(2) Organization:
Canadian General Standards Board

Address:
Ottawa, Ontario
K1A 1G6

Phone:
(613) 997-5710
Telex:

Main type of regulations:
National Standards on a variety of subjects.
Organization:
Underwriters Laboratories of Canada

Address:
7 Crouse Road
Scarborough, Ontario
M1R 3A9

Phone:
(416) 757-3611
Telex:

Main type of Regulations:
National Standards (Principally related to fire,</p> |
| <p>(3) Organization:
Canadian Standards Association

Address:
178 Rexdale Blvd.
Rexdale, Ontario
M9W 1R3

Phone:
(416) 947-4044
Telex:
06-989344
Main type of regulations:
National Standards on a variety of subjects</p> | <p>(4) Organization:
Underwriters Laboratories of Canada

Address:
7 Crouse Road
Scarborough, Ontario
M1R 3A9

Phone:
(416) 757-3611
Telex:

Main type of Regulations:
National Standards (Principally related to fire,</p> |

I I b. Bodies providing information about building regulations and standards.

- | | |
|--|---|
| <p>(1) <u>Organization:</u>
National Research Council</p> <p><u>Address:</u>
Institute for Research in Construction
Montréal Road
Ottawa, Ontario
K1A 0R6</p> <p><u>Phone:</u>
(613)993-9960</p> <p><u>Telex:</u>
053 3145</p> <p><u>Main subjects:</u>
National Building Code
National Fire Code</p> <p><u>Type of service:</u>
General information on the NBC and NFC.
Interpretations of code documents</p> | <p>(2) <u>Organization:</u>
Standards Council of Canada</p> <p><u>Address:</u> 350 Sparks Street
Ottawa, Ontario
K1R 7S8</p> <p><u>Phone:</u>
(613) 238-3222</p> <p><u>Telex:</u></p> <p><u>Main subjects:</u>
All subjects</p> <p><u>Type of service:</u>
Information on Canadian Standards.</p> |
|--|---|

I I c. Organizations where building regulations can be bought or aquired.

- | | |
|---|---|
| <p>(1) <u>Organization:</u>
National Research Council</p> <p><u>Address:</u>
Publication Sales
Montréal Road
Ottawa, Ontario
K1A 0R6</p> <p><u>Phone:</u>
(613) 993-2054</p> <p><u>Telex:</u>
053-3145</p> <p><u>Main type of documents:</u>
National Building Code
National Fire Code
Canadian Farm Building Code
Canadian Plumbing Code
Other code related publications</p> | <p>(2) <u>Organization:</u>
Standard Council of Canada</p> <p><u>Address:</u>
Standards Sales Branch
2000 Argentinia Road
Mississauga, Ontario
L5N 1V8</p> <p><u>Phone:</u>
(416) 826-8110</p> <p><u>Telex:</u>
0697719 SCC MS GA</p> <p><u>Main type of documents:</u>
Foreign standards</p> |
| <p>(3) <u>Organization:</u>
Canadian Standards Association</p> <p><u>Address:</u>
178 Rexdale Blvd.
Rexdale, Ontario
M9W 1R3</p> <p><u>Phone:</u>
(416) 747-4044</p> <p><u>Telex:</u>
06-989344</p> <p><u>Main type of documents:</u>
All CSA Standards</p> | <p>(4) <u>Organization:</u>
Canadian General Standard Board</p> <p><u>Address:</u>
Ottawa, Ontario
K1A 1G6</p> <p><u>Phone:</u>
(613) 997-5710</p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u>
All CGSB Standards</p> |

I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

National Standards System Directory and Index of Standards - CAN-SP-1 (1985) Sixth edition. April 1985. Standards Council of Canada, Ottawa.

CSA Services and Information Catalogue 1986
Canadian Standards Association, Rexdale, Ontario

1986 Catalogue of Standards and Qualified Products List
Canadian General Standards Board, Ottawa.

I I I b. Databases None (as yet)

- | | |
|---|---|
| <p>(1) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> | <p>(2) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> |
|---|---|

NOTE Preliminary talks are underway to mount the present inhouse database of the standards of the Canadian Standards Association on CAN/OLE.

I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

NBC/NFC News
Published two to four times a year by the National Research Council

Contains current news related to code users, including information on revisions, new publications, staff changes, meetings.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

National Building Code, 1985
National Fire Code, 1985

IV b. Loading: (Including wind, snow and earthquake loads)

National Building Code, 1985, Part 4, "Structural Design"

IV c. Concrete:

CAN3-A23.3-M84 Design of Concrete Structure in Buildings
Canadian Standards Association
(Referenced in the NBC)

IV d. Steel:

CAN3-S16.1-M84 Steel Structures for Buildings, Limit States Design
CAN3-S136-M84 Cold Formed Steel Structural Members
Canadian Standards Association
(Referenced in the NBC)

IV e. Wood:

CAN3-086-M84 Engineering Design in Wood
CAN3-086.1-M84 Engineering Design in Wood - Limit States Design
Canadian Standards Association
(Referenced in the NBC)

IV f. Foundations:

National Building Code, 1985
Part 4, Structural Design
Part 9, Housing and Small Buildings

IV g. Drainage:

National Building Code, 1985
Part 5, Wind, Water and Vapour Protection
Part 9, Housing and Small Buildings

IV h. Fire:

National Building Code, 1985
Part 3, Use and Occupancy
Part 9, Housing and Small Buildings
National Fire Code (existing buildings)

IV i. Electrical installations in buildings:

C22.1-1982 Canadian Electrical Code, Part 1
Canadian Standards Association
(Referenced in the NBC)

IV j. Water and sewerage:

Canadian Plumbing Code, 1985
National Research Council
(Referenced in NBC)

IV k. Ventilation:

National Building Code
Part 6, Heating, Ventilating and Air Conditioning
Part 9, Housing and Small Buildings

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

Canada Year Book - 1985
Statistics Canada
Ottawa, Ontario
K1A 0T6

V b. Introduction to the construction sector:

(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

See V(a) above.

V c. Further reading about building regulations etc:

Hansen, A.T.
The Regulation of Building Construction
CBD 237
National Research Council
Ottawa, Ontario
1985

Questionary completed by:

A.T. Hansen
Institute for Research in Construction
National Research Council Canada
Montreal Road, Bldg. M20, Ottawa, Ontario K1A 0R6
Date:
28 May 1986

PROVINCIAL AND TERRITORIAL AUTHORITIES
RESPONSIBLE FOR BUILDING REGULATIONS

Department of Supply & Services
Province of New Brunswick
P.O. Box 6000
Fredericton, N.B.
E3B 5H1

Ministère du Travail
Direction générale de l'inspection
800 Place d'Youville, 12ième étage
Québec, Québec
G1R 5K7

Department of Municipal Affairs
and Housing
Provincial Planning Office
St. John's, Newfoundland
A1C 5T7

Fire Safety Section,
Safety Division
Justice and Public Services
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Department of Community and
Cultural Affairs
3 Queen Street
P.O. Box 2000
Charlottetown, P.E.I.
C1A 7N8

General Safety Services Division
Building Standards Branch
Alberta Labour
7th Floor, IBM Building
10808 - 99 Avenue
Edmonton, Alberta
T5K 0G2

Building Standards Branch
Ministry of Municipal Affairs
747 Fort Street
9th Floor
Victoria, B.C.
V8W 3E9

Technical Safety Service Branch
Saskatchewan Labour
1870 Albert Street
Regina, Saskatchewan
S4P 3V7

Department of Community and
Transportation Services
Government of the Yukon Territories
P.O. Box 2703
Whitehorse, Yukon
Y1A 2C6

Ministry of Municipal Affairs
and Housing
777 Bay Street
3rd Floor
Toronto, Ontario
M5G 2E5

Manitoba Labour,
Room 611 - 401 York Avenue
Winnipeg, Manitoba
R3C 0P8

Community Planning Division
Department of Municipal Affairs
P.O. Box 216
Halifax, N.S.
B3J 2M4

PROVINCIAL AND TERRITORIAL AUTHORITIES
RESPONSIBLE FOR FIRE REGULATIONS

Fire Commissioner
Dept. of Attorney General
2780 E. Broadway
Vancouver, B.C.
V5M 1Y8

Provincial Fire Marshal
Department of Labour
P.O. Box 6000
Fredericton, N.B.
E3B 5H1

Ontario Fire Marshal
Ministry of Solicitor General
7 Overlea Blvd., 3rd Floor
Toronto, Ontario
M4H 1A8

Fire Marshal
Department of Community and
Transportation Services
Government of the Yukon Territory
P.O. Box 2703
Whitehorse, Yukon
Y1A 2C6

Provincial Fire Commissioner
Department of Justice
Pleasantville Fire Station
St. John's, Newfoundland
A1C 5T7

Fire Marshall
Province of Nova Scotia
Department of Labour
P.O. Box 697, 5151 Terminal Road
Halifax, N.S.
B3J 2T8

Provincial Fire Marshal
Department of Community and
Cultural Affairs
P.O. Box 2000, 3 Queen Street
Charlottetown, P.E.I.
C1A 7N8

Fire Commissioner
Saskatchewan Labour
Technical Safety Services Branch
Commissioners Unit
1870 Albert Street
Regina, Saskatchewan
S4P 3V7

Directeur Général
Direction générale de la
Prévention des incendies
Ministère des Affaires municipales
Édifice Cook-Chauveau
20, avenue Chauveau
Québec, Québec
G1R 4J3

Provincial Fire Commissioner
Department of Manpower & Labour
506 - IBM Building
Edmonton, Alberta
T5K 0G2

Fire Marshal
Fire Safety Section
Safety Section
Justice and Public Services
Government of the N.W.T.
Yellowknife, N.W.T.
X1A 2L9

Fire Commissioner
Manitoba Labour
Room 611 - 401 York Avenue
Winnipeg, Manitoba

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in CHINA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M and O	M	
Standards	M and O	M	
	incl. National and specialized		very few

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Yes No

Comments:

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

- 1/. National standards for industrial products are issued by China State Bureau of Technical Supervision, which include the components, machinery and vehicles for building construction;
- 2/. National standards for building engineering are issued by Ministry of Construction, which are suitable to certain civil engineering, such as buildings, bridges, railroads etc.;
- 3/. Specialized standards for building engineering and products are issued by Ministry of Construction;
- 4/. Regional standards for building engineering are issued by various regional responsible authorities; and
- 5/. Enterprise standards for building engineering are issued by various building enterprises.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| <p>(1) Organization:
State Bureau of Technical Supervision, P.R.C.
Address:
Zhao-Fu Street, 100009
Beijing, China
Phone: 444304
Fax:
Telex: 20050 CSBS CN
Main type of regulations: national standards for building products (components, machinery & vehicles, etc)</p> | <p>(2) Bureau of Standards and Norms, Ministry of Construction, P.R.C.
Address:
Bai-Wan-Zhuang, 100835
Beijing, China
Phone: 8992037
Fax:
Telex: 222302 MOC CN
Main type of regulations: national standards for building engineering</p> |
| <p>(3) Organization:
Research Institute of Standards and Norms, Ministry of Construction, P.R.C.
Bai-Wan-Zhuang, 100835
Phone: 8316940
Fax:
Telex: 222302 MOC CN
Main type of regulations: specialized standards for building engineering and products</p> | |

 IIb. Bodies providing information on building regulations and standards.

- | | |
|---|--|
| (1) Organization:
Research Center for Building Standards
Address:
China academy of Building Research,
Xiao-Huang-Zhuang, 100013 Beijing,
Phone: 4211133
Fax:
Telex:
Main subjects: building materials,
products, design, structures, fo-
undations, earthquake engineering,
Type of service: <i>construction & quality control.</i>
fee-based question-answer service | (2) Organization:
Research Center for Urban &
Address: Rural Development Standards
Research Institute of
Urban Development,
Bai-Wan-Zhuang, 100037 Beijing,
Phone: 8992642
Fax:
Telex:
Main subjects: public traffic, road
and bridge engineering,
fuel gas, water supply &
drainage <i>engineering in cities.</i>
Type of service:
<i>fee-based question-answer service</i> |
|---|--|

 IIc. Organizations where building regulations can be bought or aquired.

- | | |
|---|---|
| (1) Organization:
China Architecture and Building Press
Address:
Bai-Wan-Zhuang, Beijing, <i>China</i>
Phone: 8992686
Fax:
Telex:
Main type of
documents:
all building regulations and standards | (2) Organization:
Xinhua Bookstore
Address:
in every cities
Phone:
Fax:
Telex:
Main type of
documents:
all building regulations
and standards |
|---|---|

- | | |
|---|---|
| (3) Organization:
Address:
Phone:
Fax:
Telex:
Main type of
documents: | (4) Organization:
Address:
Phone:
Fax:
Telex:
Main type of
documents: |
|---|---|

 III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

 IIIa. Published or unpublished lists or catalogues.
 (Please state for each document: Title, year of issue, publisher and type of contents)

1. Catalogue of Chineses Standards 1988
 Publisher: State Bureau of Technical Supervision
2. Catalogue of Current Standards and Codes for Engineering Construction 1988
 Publisher: Ministry of Construction, *P.R.C.*

 IIIb. Databases.

- | | |
|---|---|
| (1) Database name:
just compiling
Producer:
Main contents: | (2) Database name:
Producer:
Main contents: |
|---|---|

 IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

- <<China Standardization>> (Journal)
 <<Standards and Norms for Engineering Construction>> (Journal)

IV MOST IMPORTANT BUILDING REGULATIONS
(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

1. Unified Standard for Building Modular Coordination, 1986 (GBJ2-86)
2. Unified Design Standard for Building Structures, 1984 (GBJ 68-84)

IVb. Loading: (Including wind, snow and earthquake loads)

Code for Design Load on Building Structures, 1987 (GBJ 9-87)

IVc. Concrete:

1. Design Code for Concrete Structure, 1989 (GBJ 10-89)
2. Code for Construction and Acceptance of Concrete Structure, 1983 (GBJ 204-83)

IVd. Steel:

1. Design Code for Steel Structure, 1988 (GBJ 17-88)
2. Code for Construction and Acceptance of Steel Structure, 1983 (GBJ 205-83)

IVe. Wood:

1. Design Code for Timber Structure, 1988 (GBJ 5-88)
2. Code for Construction and Acceptance of Timber Structure, 1983 (GBJ 206-83)

IVf. Foundations:

1. Design Code for Building Foundations, 1989 (GBJ 7-89)
2. Code for Construction and Acceptance of Foundation Engineering, 1983 (GBJ 202-83)

IVg. Drainage:

Design Code for Sewage Engineering, 1987 (GBJ 14-87)

IVh. Fire:

1. Code for Fire Protection in ^{Building} Design, 1987 (GBJ 16-87)
2. Code for Fire Protection in Rural Building Design, 1979 (TJ 39-79)
3. Code for Fire Protection in Highrise Civil Building Design, 1982 (GBJ 45-82)

IVi. Electrical installations in buildings:

Technical Specification for Electric Wiring in Buildings, 1983 (JGJ 16-83)

IVj. Water and sewerage:

1. Design Code for Water Supply Engineering, 1986 (GBJ 3-86)
2. Design Code for Indoor Water Supply, Drainage and Hot Water Supply, 1974 (TJ 15-74)
3. Code for Construction and Acceptance of Heating and Sanitary **IVk. Ventilation:** Installation, 1982 (GBJ 242-82)

1. Design Code for Heating, Ventilation and Air-Conditioning, 1987 (GBJ 19-87)
2. Code for Construction and Acceptance of Ventilation and Air-Conditioning Installation, 1982 (GBJ 243-82)

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

None

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

None

Vc. Further reading about building regulations etc.

Questionary completed by:

Research Institute of Standards and Norms,
Ministry of Construction, P.R.C.

Date: 1989-06-21

QUESTIONNAIRE

Building regulations and standards in CUBA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies throughout the entire country or federation
2) Applies only in states or provinces subject to their decision
3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM...)

Comments:

ASTM, ISO, DIN, COMECON*

*Council for mutual and economic aid

Id. Brief description of the system of building regulations and related documents.

Regulations are issued by the State Committee for Standardisation-CEN who is the supreme authority of the nation on this field and who coordinates with all branch organizations the elaboration, and revision of the standards. The CEN has a department specialized on building that covers all the activities concerning design, building materials and others. The CEN also provides the official quality certificates.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: Comité Estatal de Normatización-CEN.	Organization: Centro de control de la Calidad
Address: Egidio 610 y Gloria y Apodaca La Habana	Address: Zapata y paseo Vedado La Habana

Phone: 92347 94769 73153
Fax:
Telex: 051 2245 CEN CU

Main type of regulations: Cuban Standards-NC.

Phone: 30 6 5 5 0
Fax:
Telex: Through Ministry of Building 511139

Main type of Building regulations regulations:

(3)	(4)
Organization: Centro de desarrollo de Materiales de Construcción	Organization:
Address: Finca El Ingenito. Guanabacoa, La Habana	Address:

Phone: 65 16 38 65 16 97
Fax:
Telex:

Main type of regulations: Regulations for Building materials

Phone:
Fax:
Telex:

Main type of regulations:

IIf. Bodies providing information on building regulations and standards.

<p>(1) Organization: CEDITEC. Centro de Información y documentación de la Construcción Address: Plaza de la REVOLUCIÓN La Habana Phone: 71819 Fax: Telex: 511139 Main subjects: All kind r Type of service: Free on demand</p>	<p>(2) Organization: CINAN. Centro de Informática aplicada a la normalización Address: Reina 351 e/Escobar y Lealtad La Habana Phone: 99 17 70 Fax: Telex: 0511422 Main subjects: Standards. All kind From Cuba and abroad Type of service: Free on demand</p>
---	---

Iic. Organizations from which building regulations are available.

<p>(1) Organization: See IIf. Address: Phone: Fax: Telex: Main type of documents:</p>	<p>(2) Organization: Address: Phone: Fax: Telex: Main type of documents:</p>
<p>(3) Organization: Address: Phone: Fax: Telex: Main type of documents:</p>	<p>(4) Organization: Address: Phone: Fax: Telex: Main type of documents:</p>

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
 (Please state for each document: Title, year of issue, publisher and type of contents)
 Catalogue of cuban standards edited yearly by Cen.

IIIb. Databases.

<p>(1) Database name: not available yet. Producer: Main contents:</p>	<p>(2) Database name: Producer: Main contents:</p>
--	---

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Magazine: "Normalización" (ISSN 0138-8118)

appears quarterly with summaries in english and french entirely dedicated to standardisation, metrology and quality control. Edited by CEN.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

Decreets;number 5:Investment procedure
 105:Evaluation and approval of investments
 57:Evaluation and approval of technical do
 mentation for building site.
 58:On the experts committes for project eva
 luation.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

Standards,Class:02 Unified project documentation.
 53 design
 53 41 Wind loads
 53 114 Earthquake resisting structurtes

IVc. Concrete:

53 39 Concrete structures.

IVd. Steel:

53 94 Steel Structures
 52 Reinforcing steel for concrete

IVe. Wood:

53 On revision to be issued soon

IVf. Foundations:

53 82Design and calculation

IVg. Drainage:

48 26 Urban rain dreinage

IVh. Fire:

96 All kind

IVi. Electrical installations in buildings:

SEN, National electroenergetic system
 Under class 53 Building design.

IVj. Water and sewerage:

Class 48

IVk. Heating and ventilation:

Under class 53 (heating standards are not necessary)
 Solar protection on working rooms.

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

National atlas

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations
 and companies; descriptions; statistical data)
 Ministerio de la Construcción
 MICONS

-Plaza de la Revolución
 La Habana

Ministerio de la Industria de
 Materiales de Construcción
 MIMC

Calle 17 y O, Vedado, La Habana

Vc. Further reading about building regulations etc.**Questionnaire completed by:**

Dirección de Relaciones Internacionales
 Ministerio de la Construcción

Date: 25/05/89

QUESTIONNAIRE

Building regulations and standards in Czechoslovakia (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies throughout the entire country or federation
2) Applies only in states or provinces subject to their decision
3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

Id. Brief description of the system of building regulations and related documents.

- Regulations for building construction are issued by the Ministry of Building and Construction of Czech Socialist Republic /ČSR/ and are published in a Bulletin of Ministry of Building and Construction of ČSR
- Czechoslovak state standards /ČSN/ are issued by the Office for Standardization and Measuring /ÚNM/
- The evidence of building standards and regulations and informations about them can be reached in the Institute of Rationalization of Building /ÚRS/

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: Ministry of Building and Construction of ČSR	Organization: Office for Standardization and Measuring
Address: Na poříčnickém právu 1 128 00 Praha 2 Czechoslovakia	Address: Václavské nám. 19 110 00 Praha 1 Czechoslovakia

Phone: 2135 111
Fax:
Telex:

Phone: 226845
Fax:
Telex:

Main type of regulations: Regulations

Main type of regulations: Czechoslovak state standards /ČSN/

(3)
Organization:

(4)
Organization:

Address:

Address:

Phone:
Fax:
Telex:

Phone:
Fax:
Telex:

Main type of regulations:

Main type of regulations:

Ib. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Office for Standardization and Measuring /ÚNM/	Organization: Institute of Rationalization of Building
Address: Příkopy 17 110 00 Praha 1 Czechoslovakia	Address: Fučíkova 147 400 01 Ústí nad Labem Czechoslovakia
Phone: 228001	Phone: 64744
Fax:	Fax:
Telex:	Telex:
Main subjects: all standards bulletin of standards	Main subjects: review of building standards
Type of service: borrowings consultations	Type of service: consultations

Ic. Organizations from which building regulations are available.

(1)	(2)
Organization: Office for Standardization and Measuring /ÚNM/	Organization: Slovak Technical Library
Address: Vydavatelství ÚNM 100 00 Praha 10-Hostivař Czechoslovakia	Address: Gottwaldovo nám. 19 880 02 Bratislava 1 Czechoslovakia
Phone: 226208	Phone: 56741
Fax:	Fax:
Telex:	Telex:
Main type of documents: all standards	Main type of documents: all standards
(3)	(4)
Organization: Institute of Rationalization of Building /ÚRS/	Organization:
Address: Fučíkova 147 400 01 Ústí nad Labem Czechoslovakia	Address:
Phone: 647 44	Phone:
Fax:	Fax:
Telex: Building constructions	Telex:
Main type of documents: /regulations standards	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.**IIIa. Published or unpublished lists or catalogues.**
(Please state for each document: Title, year of issue, publisher and type of contents)

Technical standards I,II - list of valid standards
/issued by Institute of Rationalization of
Building annually/

IIIb. Databases.

(1)	(2)
Database name: ---	Database name:
Producer:	Producer:
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Czechoslovak Standardization /československá standardizace/
- periodical, published by Office for Standardization and
Measuring /in Czech/.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1. Regulations - Bulletin of Ministry of Building and Construction of CSR
24 parts/year
- 2. Building standards - ČSN 72....
 ČSN 73....
 ČSN 74....

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

- ČSN 73 0033/ST-SEV 1407-78
- 73 0036
- 73 0037

IVc. Concrete:

- ČSN 731201
- ČSN 731203
- ČSN 731205

IVd. Steel:

- ON-73-0920
- ČSN 731401

IVe. Wood:

- ČSN 731701

IVf. Foundations:

- ČSN 731000/ST-SEV 1507-86

IVg. Drainage: ---

IVh. Fire:

- ČSN 730802*
- ČSN 730821

IVi. Electrical installations in buildings:

- ČSN 341010
- ČSN 341020
- ČSN 341050
- ČSN 341090

IVj. Water and sewerage:

- Water: ČSN 736620
- ČSN 736655
- ČSN 736660
- Sewerage: ČSN 132111, ČSN 132140
- . ČSN 132112, ČSN 132126

IVk. Heating and ventilation:

- Heating: ČSN 060210
- ČSN 060310
- ČSN 060312
- Ventilation: ON 142506
- ON 730581

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Czechoslovak Civil Engineering /English/ - issued 4 times a year by Institute of Building Informations, Prague.

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

List of addresses for workers in the field of technical standardization - issued annually by Institute for Rationalization for Building, 1989

Vc. Further reading about building regulations etc.

Questionnaire completed by:

Ing. Olga Němcová
Ústav stavebních informací /ÚSI/
odd. primárních fondů
Národní tř. 10
116 87 Praha 1
Czechoslovakia

Date: 1989-05-30

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in Denmark (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies in the entire country or federation
2) Applies only in e.g. states or provinces after their decision
3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

The Danish Building Regulations (BR 82 and BRS 85) are issued by the Ministry of Housing by the powers of the Building Act issued by the Government. Normally the regulations are administrated by the local authorities. Related to this will be the requirements in the fire regulation, working environment regulation and regulations concerning air-raid shelters, where special authorities are being involved. To this might be demands or limitations contained in the law of planning, the law of nature preservation, the law of environmental protection and the law of roads. Other regulations, Civil engineering norms (DIF-norms), Danish Standards (DS), Approvals for materials and constructions and for water and drainage materials (MC and WD approvals). Publications from the Danish Building Research Institute etc. are referred to in the Building Regulations.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Iia. National authorities or organizations wich are issuing or adopting building regulations.

(1) Organization: see attached page (2) Organization:

Address:

Address:

Phone:

Phone:

Fax:

Fax:

Telex:

Telex:

Main type of regulations:

Main type of regulations:

(3) Organization:

(4) Organization:

Address:

Address:

Phone:

Phone:

Fax:

Fax:

Telex:

Telex:

Main type of regulations:

Main type of regulations:

II a. National authorities or organizations which are issuing or adopting building regulations

Technical building regulations

The Danish Ministry of Housing
National Agency of Building,
Stormgade 10, DK-1470 Copenhagen K.
Tel.: 33 92 61 00

Danish society of Engineers' Organi-
zation for Norms and Standards
Vester Farimagsgade 31
DK-1606 Copenhagen V.
Tel.: 33 15 65 65

Secretariate for the Approval of
Materials and Constructions
Postbox 54, DK-2970 Hørsholm
Tel.: 42 86 55 33

Secretariate for the Approval of
Water and Drainage Material
Postbox 54, DK-2970 Hørsholm
Tel.: 42 86 55 33

Directorate of Labour Inspection
Landskronagade 33-35
DK-2100 Copenhagen Ø.
Tel.: 31 18 00 88
Dept. of Documentation and library.

The National Inspectorate of
Fire Service
Kongevej 207, DK-2830 Virum
Tel.: 42 85 13 66

Electricity Council
Gothersgade 160, DK-1123 Copenhagen K.
Tel.: 33 11 65 82

Danish Board of Approval for
Electrical Equipment, DEMKO
Lyskær 8, DK-2730 Herlev
Tel.: 42 94 72 66

Danish Board of Approval for
Gas Equipment
Tranegårdsvej 20, DK-2900 Hellerup
Tel.: 31 62 43 85

National Technical Testing Board
Tagensvej 135, DK-2200 Copenhagen N.
Tel.: 31 85 10 66

Civil Defence Administration
Vordingborggade 18,
DK-2100 Copenhagen Ø.
Tel.: 31 38 65 45

Building legislation.
Building regulations.
The structural conditions within
building
Energy conservation in buildings.

DIF-norms, some being published
as Danish Standards

MC-approvals of building materi-
als and constructions.

WD-approvals of materials for
water and drainage installations

The law of working environment
conditions as well as the requi-
rements of the law concerning
the worker's hygiene and protec-
tion from accidents in buildings.

The law of fire as well as tech-
nical and working instructions
concerning the regulatives for
building and installations.

High voltage electricity regula-
tions, specifications of distri-
butions plants, installation
and material.

Approval of electrical equipment
and material.

Gas-regulations and instructions
referring to this. Approval of
gas-equipment and material.

Among other things testing of
building materials and construct-
ions.

Law of civil defence organization.
Approval of civilian shelters
in buildings.

Danish Building Research In-
stitute, SBI
Postboks 119, DK-2970 Hørsholm
Tel.: 42 86 55 33

Planning- and Environmental Regulations

Ministry of environment Protection
National Agency of Physical Planning
Haraldsgade 53, DK-2100 Copenhagen Ø.
Tel.: 39 27 11 00

Ministry of Environment Protection
National Agency of Environmental
Protection
Strandgade 29, DK-1401 Copenhagen K.
Tel.: 31 57 83 10

Ministry of Environment Protection
National Forest and Nature
Agency
Slotsmarken 13, DK-2970 Hørsholm
Tel.: 45 76 53 76

The Energy Ministry
Danish Energy Agency
Landemærket 11, DK-1119 Copenhagen K.
Tel.: 33 92 67 00

Research institute for the tech-
nical, organizational and econo-
mical aspects within building
and the physical planning. Pub-
lishes current research results.
Some of the publications are
approved as a basis of legal
execution.

Law of urban planning. Head de-
partment of the physical planning
Law of preservation of buildings

Law of environment protection.
Head department of cases concern-
ing pollution of air, water and
earth including approvals of
particularly polluting firms.

Law of nature preservation.

Law of heat supply.
Head of department of the plan-
ning of energy consumption.

IIb. Bodies providing information on building regulations and standards.

- | | |
|--|-------------------|
| (1) Organization: <u>see attached page</u> | (2) Organization: |
| Address: | Address: |
| Phone: | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main subjects: | Main subjects: |
| Type of service: | Type of service: |

II b.

Danish National Centre for Building Documentation
Peder Skramsgade 2 D
DK-1054 Copenhagen K.
Tel.: 33 12 68 60

Danish National Building documentation center. Render literature-service and refer to relevant authorities and institutions

Ministry of Housing International Office.
Slotsholmsgade 12
DK-1216 Copenhagen K.
Tel.: 33 92 61 00

General information about building in Denmark. Refer to relevant authorities and institutions.

The Danish Building Center
Vester Voldgade 94
DK-1552 Copenhagen V.
Tel.: 33 12 73 73

Building-information. Publishes the looseleaf work "Dyggedata". Render consultant-service regarding winter-building.

The Danish Standard Association
Aurehøjvej 12, DK-2900 Hellerup
Tel.: 31 62 32 00
Telex: 15615 Dansta DK
Telefax: 31 62 30 77

Danish Standards DS, DS/R, DS/ISO
GATT-Enquiry Point.

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|---|---|
| (1) Organization:
The Danish Building Centre
Address:
Vester Voldgade 94
DK-1216 Copenhagen K.
Phone: 33 12 73 73
Fax:
Telex: 1 60 56 build dk
Main type of documents: Most | (2) Organization: -
Danish Standard Association
Address:
Aurehøjvej 12
DK-2900 Hellerup
Phone: 31 62 32 00
Fax: 31 62 30 77
Telex: 15615 dansta dk
Main type of documents: Danish Standards |
| (3) Organization:
Statens Indkøb
Address:
Bredgade 20
DK-1260 Copenhagen K.
Phone: 33 92 31 28
Fax:
Telex:
Main type of documents:
government publications | (4) Organization:
Address:
Phone:
Fax:
Telex:
Main type of documents: |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

see attached page

IIIb. Databases. see attached page

(1) Database name:	(2) Database name:
Producer:	Producer:
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Byggeorientering

Monthly appearing periodical with news about regulations, norms, standards, MC, ND approvals, research publications etc.
ISSN 0106-5882.
Issued by the Danish Building Centre.

III a. Published or unpublished lists or catalogues

BYGGEDATA

The Danish Building Centre, Copenhagen
Current publications, 19 loose-leaf volumes.
App. 5000 p.
Price d.kr. 3.800,-. D.kr. 5.000,- a year
for bringing up-to-date 6 times a year.
(Dan).

DANSK STANDARD. KATALOG 1988.
(Danish Standard Catalogue 1988).
Danish Standard Association, Copenhagen 1988. 279 p. Price d.kr. 90,-
(Dan). Published every year.

NORM INFORMATION 1989
(Catalogue of DIP norms)
Copenhagen 1989. 32 p. Free
of charge. Published every year
(Dan).

III b. Databases

GATT-DATABASE

(General Agreement on Tariffs and Trade)
Produced by: GATT Enquiry Point
Dansk Standardiseringsråd
Aurehøjvej 12
DK-2900 Hellerup
Tel.: 31 62 30 77
Telex: 15615 dansta DK

Contains 4000 references to all Danish standards, draftsproposals for standards and current authority directives, technical regulations etc. considered as technical barriers to trade.
Updated 6 times a year. DC Host Center is accessible through EURONET.

Host centre: DC Host Centre
Retortvej 6-8
DK-2500 Valby
tel.: 31 46 81 22
Telex: 27122 dcdk

BYGINF

Byggeriets databaser

Produced by: Byggecentrum
Vester Voldgade 94
DK-1552 København K
Tel.: 33 12 73 73

Contains between other information some generally used building statistics and a total survey of existing and former laws, regulations, directions, norms and standards.
Currently updated.

CIB W57/1986-05-14

QUESTIONNAIRE

Building regulations and standards in Egypt (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M		
Standards	M		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case. Yes, in general Yes, sometimes No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

BS - ASTH - DIN .

I d. Short description of the system of building regulations and related documents.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- (1) Organization: General Organization for Housing, Building & Planning Research .
Address: El Tahrer Street, Dokki, Cairo, Egypt.
P.O. Box 1770, Cairo
Phone: 711564 - 716853
Telex: 94025 HBPR UN
Main type of regulations: Codes of Practice
- (2) Organization: Ministry of Housing
Address: 1, Ismail Abaza Street, Kasr El Aini, Cairo , Egypt.
Phone: 3540110 - 3541103
Telex: 92571 MOHR UN
Main type of regulations: Building Laws
- (3) Organization: Egyptian General Organization for Standardization and Quality Control
Address: 2, Latin America Street, Garden City , Cairo , Egypt .
Phone: 3546355 - 3542895
Telex:
Main type of regulations: Standard Specifications (for Industry)
- (4) Organization:
Address:
Phone:
Telex:
Main type of Regulations:

I I b. Bodies providing information about building regulations and standards.

(1)	<u>Organization:</u>	(2)	<u>Organization:</u>
	<u>Adress:</u>		<u>Adress:</u>
	<u>Phone:</u>		<u>Phone:</u>
	<u>Telex:</u>		<u>Telex:</u>
	<u>Main subjects:</u>		<u>Main subjects:</u>
	<u>Type of service:</u>		<u>Type of service:</u>

I I c. Organizations where building regulations can be bought or aquired.

(1)	<u>Organization:</u> General Orga- nization for Housing, Building & Planning Research <u>Adress:</u> El Tahreer Street, Dokki Cairo, Egypt . P.O. Box 1770 , Cairo. <u>Phone:</u> 711564 - 716853 <u>Telex:</u> 94025 HBPR UN <u>Main type of documents:</u> (Codes of Practice)	(2)	<u>Organization:</u> Egyptian General Organization for Standardiza- tion & quality Control <u>Adress:</u> 2, Latin America Street, Garden- City, Cairo, Egypt. <u>Phone:</u> 3546355 - 3542895 <u>Telex:</u> <u>Main type of documents:</u> Standard Specifications (For Industry)
(3)	<u>Organization:</u> Government Publications Sales Office <u>Adress:</u> Midan El Opera Cairo - Egypt <u>Phone:</u> <u>Telex:</u> <u>Main type of documents:</u> Laws	(4)	<u>Organization:</u> <u>Adress:</u> <u>Phone:</u> <u>Telex:</u> <u>Main type of documents:</u>

**I I I INFORMATION SYSTEMS, CATA-
LOGUES, INDEXES, DATABASES
ETC GIVING REFERENCE TO
BUILDING REGULATIONS.**

I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

دليل المواصفات القياسية المصرية (١٩٨١)
 (Egyptian Standard Specifications Guide, 1981). Published by the
 Egyptian General Organization for Standardization & Quality
 Control) (in arabic) .

ملحق دليل المواصفات القياسية المصرية ١٩٨٥ (الهيئة المصرية العامه
 للتوحيد القياسي وجوده الانتاج .)
 Supplement 1985 . (in arabic) .

I I I b. Databases

(1)	<u>Database name:</u>	(2)	<u>Database name:</u>
	<u>Producer:</u>		<u>Producer:</u>
	<u>Main contents:</u>		<u>Main contents:</u>

I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

IV b. Loading: (Including wind, snow and earthquake loads)

IV c. Concrete:

اسس تصميم وشروط تنفيذ اعمال الخرسانه في المباني ا ت م ٢ / ١٧٠
(Code of Practice for Reinforced Concrete, 1970)

IV d. Steel:

اسس تصميم وشروط تنفيذ المنشآت والكبارى المعدنيه ١٧٢
(Code of Practice for Steel Construction & Bridges, 1973)

IV e. Wood:

IV f. Foundations: ١٧٠

1- (Code of Practice for Pile Foundations, 1970)

٢- اسس تصميم وشروط تنفيذ استكشاف الموقع وتحديد خواص التربه واختبارها ا ت م ١٧٠ / د
2-(Code of Practice for Soil Investigation, 1970)

IV g. Drainage:

٣- اسس تصميم وشروط تنفيذ التربه للجسور ١٧٢
3-(Code of Practice for Compaction of Soil for Embankment , 1973).

٤- اسس تصميم وشروط تنفيذ اجهادات التحميل المسموح بها فسي حاله الاساسات العاديه

IV h. Fire: 4-(Code of Practice for Admissible Loads in Case of Spredd Foundations 1970).

IV i. Electrical installations in buildings:

اسس تصميم وشروط تنفيذ التوصيلات والتركيبات الكهربائيه ا ت م ١٧٠ / ع
(Code for Practice for Electrical Installations).

IV j. Water and sewerage:

IV k. Ventilation:

V BIBLIOGRAPHY

(Suggestions for litterature of interest).

V a. General information on the country:

Human Settlements in Egypt-National report, 1975 (Ministry of Housing & Reconstruction - General Organization for Housing, Building & Planning Research).

V b. Introduction to the construction sector:

(E.g. Lists of adresses to authorities, organizations and companies; Descriptions, statistics).

Construction / Contracting Industry in Egypt, 1981 (World Bank & Ministry of Housing , Represented by the General Organization for Housing , Building Planning Research - Egypt).

V c. Further reading about building regulations etc:

Questionary completed by:

(Miss) Olfat Awadallah ,
Director, Information & Documentation Centre, GOHBPR.

Date: 19/7/1986

CIB W57/1986-D5-14

QUESTIONNAIRE

ETHIOPIA

Building regulations and standards in _____ (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	O		
Standards	M+O		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I a. Short description of the system of building regulations and related documents.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization:

Ministry of Urban Development & Housing

Address:

Addis Ababa
P.O. Box 5608
Ethiopia

Phone:

Telex:

Main type of regulations:

(2) Organization:

Ministry of Construction

Address:

Addis Ababa
P.O. Box 3326
Ethiopia

Phone:

Telex:

Main type of regulations:

(3) Organization:

Ethiopian Standards Institution

Address:

Addis Ababa
P.O. Box 2310
Ethiopia

Phone:

Telex:

Main type of regulations:

(4) Organization:

Address:

Phone:

Telex:

Main type of Regulations:

II b. Bodies providing information about building regulations and standards.

- | | |
|---|---|
| <p>(1) <u>Organization:</u>
Faculty of Technology
(Southern Campus)
<u>Address:</u>
Addis Ababa
P.O. Box 518
Ethiopia</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u></p> | <p>(2) <u>Organization:</u></p> <p><u>Address:</u> (Organizations listed under II a.)</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u></p> |
|---|---|

II c. Organizations where building regulations can be bought or aquired.

- | | |
|---|--|
| <p>(1) <u>Organization:</u>
Ministry of Construction
<u>Address:</u>
See II a (2)</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> | <p>(2) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> |
| <p>(3) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> | <p>(4) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> |

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.
III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

III b. Databases

- | | |
|---|---|
| <p>(1) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> | <p>(2) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> |
|---|---|

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

IV b. Loading: (Including wind, snow and earthquake loads)
"Code of Practice for Loading," issued by the Ministry of Construction, Addis Ababa, Ethiopia, 1983.

IV c. Concrete:
"Code of Practice for the Structural Use of Concrete," issued by the Ministry of Construction, Addis Ababa, Ethiopia, 1983.

IV d. Steel:

IV e. Wood:

IV f. Foundations:
"Code of Practice for Foundations," issued by the Ministry of Construction, Addis Ababa, Ethiopia, 1983.

IV g. Drainage:

IV h. Fire:

IV i. Electrical installations in buildings:

IV j. Water and sewerage:

IV k. Ventilation:

V BIBLIOGRAPHY
(Suggestions for literature of interest).

V a. General information on the country:

V b. Introduction to the construction sector:
(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

V c. Further reading about building regulations etc:

Questionary completed by: Dr. Zawde Berhane

Date: July 1986

Building regulations and standards in Federal Republic of Germany (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M	M	
Codes/regulations	M, O	M, O	M
Standards	O	O	

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

Standards become mandatory when they enter into laws and regulations what can occur nationally as well as regionally.

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

DIN

I d. Short description of the system of building regulations and related documents.

They are comprehended in VOB (Verdingungsordnung für Bauleistungen) which ever is basis of the agreements, so they are ever mandatory.

The Building Regulations of the "Laender" lay down general principles, e.g. for safety, while the necessary technical details are specified in standards.

With regard to contracts for construction work, all essential information concerning tendering, awarding of contracts and payment is to be found in the VOB (Verdingungsordnung für Bauleistungen) which forms the basis of agreements and has mandatory character. References to the standards to be complied with in each case, which depend on the type of construction work to be carried out, are also given in the VOB.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| <p>(1) <u>Organization:</u>
Bundesminister für Raumordnung,
Bauwesen und Städtebau
<u>Address:</u>
Deichmannsaue
D - 5300 Bonn 2

<u>Phone:</u> 0228/337-1

<u>Telex:</u> 885462

<u>Main type of regulations:</u>
laws, codes, regulations</p> | <p>(2) <u>Organization:</u>
Deutsches Institut für Normung

<u>Address:</u>
Burggrafenstraße 6
D - 1000 Berlin 30

<u>Phone:</u> 030/26011

<u>Telex:</u> 184273
<u>Telefax:</u> 030/2601231

<u>Main type of regulations:</u>
standards</p> |
| <p>(3) <u>Organization:</u>
Governments of the
federal states
<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of regulations:</u>
laws, codes, regulations, Standards</p> | <p>(4) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of Regulations:</u></p> |

II b. Bodies providing information about building regulations and standards.

<p>(1) <u>Organization:</u> Informationszentrum RAUM und BAU der Fraunhofer-Gesellschaft (IRB) <u>Address:</u> Nobelstraße 12 D - 7000 Stuttgart 80</p> <p><u>Phone:</u> 0711/6868-500</p> <p><u>Telex:</u> 7255167</p> <p><u>Main subjects:</u> Regional Planning, Urban Planning, Housing, Building Construction</p> <p><u>Type of service:</u> online services, information services on request, standardized periodical services, publications, <u>consultation in information</u></p>	<p>(2) <u>Organization:</u> Deutsches Informationszentrum für Technische Regeln (DITR) <u>Address:</u> Burggrafenstraße 6 D - 1000 Berlin 30</p> <p><u>Phone:</u> 030/2601-260</p> <p><u>Telex:</u> 185269 <u>Telefax:</u> 030/2628125</p> <p><u>Main subjects:</u> all kinds of regulations</p> <p><u>Type of service:</u> database services</p>
--	---

II c. Organizations where building regulations can be bought or aquired.

<p>(1) <u>Organization:</u> Beuth-Verlag GmbH <u>Address:</u> Burggrafenstraße 6 D - 1000 Berlin 30</p> <p><u>Phone:</u> 030/2601-1</p> <p><u>Telex:</u> 1836 22 185730</p> <p><u>Main type of documents:</u> standards</p>	<p>(2) <u>Organization:</u> Bundesanzeiger Verlags Groß <u>Address:</u> Postfach 10 80 06 D - 5000 Köln</p> <p><u>Phone:</u> 0221/2029-0</p> <p><u>Telex:</u> 8882595</p> <p><u>Main type of documents:</u> schedules on national laws</p>
---	--

<p>(3) <u>Organization:</u> publishers of the schedules on regional laws <u>Address:</u> of the federal states</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u> schedules on regional laws of the federal states</p>	<p>(4) <u>Organization:</u> DITR <u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p>
---	--

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

DIN-Katalog für technische Regeln, Band 1 und 2, Berlin: Beuth-Verlag, 1989
all kinds of technical regulations

Deutsche Baudokumentation:
VIS-Lexikon (Vorschriften Informations System)
Celle: Heinze, 1984
all kinds of regulations, nationally and regionally

III b. Databases

<p>(3) JURIS Bundesministerium der Justiz all kinds of laws in the F.R.G. and judgements</p>	<p>(1) <u>Database name:</u> DITR <u>Producer:</u> Deutsches Informationszentrum für technische Regeln im DIN <u>Main contents:</u> all kinds of technical regulations in the F.R.G. (incl. laws)</p>	<p>(2) <u>Database name:</u> RSWB <u>Producer:</u> Informationszentrum RAUM und BAU der Fraunhofer-Gesellschaft (IRB) <u>Main contents:</u> references to scientific and technical literature</p>
--	---	---

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

DIN-Mitteilungen incl. DIN-Anzeiger für technische VDI-Mitteilungen
Regeln

Mitteilungen aus der Baunormung

IV MOST IMPORTANT BUILDING
REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

- IV a. General: (E.g. important/laws or main code documents)
- Bundesbaugesetz (various editions, see enclosed list)
Contents: all kinds of building regulations, nationally
- Landesbauordnungen (one for each federal state)
Contents: all kinds of building regulations for the federal states as well as the national regulations
- IV b. Loading: (Including wind, snow and earthquake loads)
- *DIN 1055 Lastannahmen für Bauten
- IV c. Concrete:
- DIN 1045 Beton und Stahlbeton; Bemessung und Ausführung
- *DIN 4227 Spannbeton
- IV d. Steel:
- DIN 4114 Stahlbau; Stabilitätsfälle (Mnickung, Kippung, Beulung), Berechnungsgrundlagen
- *DIN 18800 Stahlbauten
- IV e. Wood:
- *DIN 1052 Holzbauwerke
- IV f. Foundations:
- DIN 1054 Baugrund; Zulässige Belastung des Baugrunds
- DIN 4017 Baugrund; Grundbruchberechnungen ...
- IV g. Drainage:
- DIN 1185 Dränung; Regelung des Bodenwasser-Haushaltes durch Rohrdränung, Rohrlose Dränung und Unterbodenmelioration
- *DIN 4095 Baugrund; Dränung zum Schutz baulicher Anlagen; Planung und Ausführung.
- DIN 14096 Brandschutzordnung
- *DIN 4102 Brandverhalten von Baustoffen und Bauteile
- IV i. Electrical installations in buildings:
- DIN 18015 Elektrische Anlagen in Wohngebäuden

- IV j. DIN 1966 Entwässerungsanlagen für Gebäude und Grundstücke; Verwendungsbereiche von Abwasserrohren und -formstücken verschiedener Werkstoffe
-
- IV j. Water and sewerage:
- * DIN 1988 Technische Regel für Trinkwasser-Installa-
DIN 2425 Planwerke für die Versorgungswirtschaft, tion
die Wasserwirtschaft und für Fernleitungen;
Rohrnetzpläne der öffentlichen Gas- und
Wasserversorgung
- IV k. Ventilation:
- DIN 1946 Lüftungstechnische
Anlagen
- DIN 2000 Zentrale Trinkwasserversorgung,
Leitsätze für Anforderungen an
Trinkwasser, Planung, Bau und
Betrieb der Anlagen
-
- V BIBLIOGRAPHY
(Suggestions for literature of interest).
- V a. General information on the country:
- DIN-Katalog für technische Regeln, Band 1 und 2
Berlin: Beuth-Verlag, 1989
- V b. Introduction to the construction sector:
(E.g. Lists of adresses to authorities, organizations and companies; Descriptions, statistics).
- Verbände, Behörden, Organisationen der Wirtschaft.
Darmstadt: Verlag Hoppenstedt & Co., 1986
- Handbuch der Großunternehmen.
Darmstadt: Verlag Hoppenstedt & Co., 1986
- IV l. Masonry
*DIN 1053 Mauerwerksbau
- IV m. Sound insulation
*DIN 4109 Schallschutz im Hochbau
- IV n. Thermal insulation
*DIN 4108 Wärmeschutz im Hochbau
- V c. Further reading about building regulations etc:

* here is a set of standards existing under the given head(main) number

Questionary completed by:

12. Juli 1989

Informationszentrum RAUM und BAU
der Fraunhofer-Gesellschaft
Nobelstraße 12 · D-7000 Stuttgart 80
Telefon 07 11/6868-500 · Telex 07255 167
Fernkennzeichen 07 11/6868-339

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in FINLAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	None	None
Codes/regulations	M	M	M
Standards	O	None	None

NB. Regional and local regulations concern the land use.

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM...)

Comments:

A section of national building regulations is optional (deemed to satisfy options)
All standards are optional (good construction practice)

Id. Short description of the system of building regulations and related documents.

Laws and by-laws are given by Parliament and consequently by the government and its ministries. (Ministry of Environment when building matters are in question.) The Ministry of Environment publishes "the national building code" (Suomen rakennusmääräyskokoelma).

The National Standards Association (SFS) and some joint associations publish documents of standard character (good construction practice) the most important of which are the standard for structural safety by the Association of Civil Engineers) RT Information File (design rules and standard details) by the Building Information Institute (Rakennustietosäätiö).

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|---|
| <p>(1) Organization:
Ministry of Environment
Address:
P.O. Box 399
00121 Helsinki
FINLAND
Phone:
+358 0 1601
Fax:
Telex:

Main type of regulations:
National building code</p> | <p>(2) Organization:
The Building Information Institute
Address:
P.O. Box 1004
00101 Helsinki
FINLAND
Phone:
+358 0 69 44 911
Fax:
+358 0 69 41 897
Telex:

Main type of regulations:
Design rules and standard solutions</p> |
| <p>(3) Organization:
Finnish Standards Association SFS
Address:
P.O. Box 205
00121 Helsinki
FINLAND
Phone:
+358 0 645 601
Fax:
Telex:

Main type of regulations:
Product standards</p> | <p>(4) Organization:
Association of Finnish Civil Eng. RIL
Address:
Meritullinkatu 16 A 5
00170 Helsinki
FINLAND
Phone:
+358 0 661693
Fax:
Telex:

Main type of regulations:
Structural safety
Calculation rules</p> |

Ib. Bodies providing information on building regulations and standards.

- | | |
|--|---|
| (1) Organization:
Finnish Standards Association
Address: | (2) Organization:
The Building Information Institute
Address: |
| Phone: | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main subjects: | Main subjects: |
| Type of service: | Type of service: |
| All information service
about standards | own publications |
- as on previous page

Ic. Organizations where building regulations can be bought or aquired.

- | | |
|--|--|
| (1) Organization:
Government Printing Centre
Address:
Hakuninmaantie 2
00430 Helsinki
FINLAND
Phone:
+358 0 566 01
Fax:
Telex:
Main type of
documents:
government publications | (2) Organization:
The Building Book Ltd.
Address:
P.O. Box 1004
00101 Helsinki
FINLAND
Phone:
+358 0 69 44 911
Fax:
+358 0 69 41 897
Telex:
Main type of
documents:
all publications commercially available |
| (3) Organization:
Finnish Standards Association SFS
Address: | (4) Organization:
Association of Finnish Civil Eng. RIL
Address: |
| as on previous page | |
| Phone: | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main type of
documents:
Standards | Main type of
documents:
own publications |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- A. SFS catalogue /yearly/ /SFS
- list of national standards (also by group)
- B. RT-kortiston asihakemisto ja sisällysluettelo
(Index and list of contents of the RT Information File)
- list and index of regulations and standards contained in the RT Information File (laws and regulations issued by the government, standards related to building)
- C. Julkaisuluettelo (Catalogue of building literature) (yearly/ the Building Book Ltd.
See section "Määräykset" (regulations).

IIIb. Databases.

- | | |
|--|---|
| (1) Database name:
SFS STAR
Producer:
Finnish Standards Association SFS
Main contents:
- national standards (SFS)
- RT Information File (RTS)
- RIL rules (RTS)
- draft standards
- rules and regulations by
the authorities | (2) Database name:
FINLEX: 20 different files
Producer:
Ministry of Justice
(Contact: VTOK)
Main contents:
- text and index of "Law of
Finland I and II
- bibliographica juridica
of Fennica
- international agreements
with Finland
- decisions of the court |
|--|---|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Laws: Virallinen lehti (government news bulletin)
Standards: SFS-tiedotus (news bulletin of SFS)
RT Information File: Rakennustieto (journal of the Building Inform. Inst.)

Note: Laws and other regulations (inc. National Building Code = RakMK) issued by the government are available also in Swedish and occasionally in English

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- Rakennuslaki (Building Law) 1958
- Rakennusasetus (Building By-Law) 1959
- Suomen rakennusmääräyskokoelma (National Building Code = RakMK)
- RYL 90 (Code of building practice RYL 90)

IVb. Loading: (Including wind, snow and earthquake loads)

- RakMK B 1 Rakenteiden varmuus ja kuormitukset 1983
- regulations for loading of structures
- RIL 144 Rakenteiden kuormitusohjeet 1983
- instruction for loading of structures

IVc. Concrete:

- RakMK B 4 Betonirakenteet 1987
- instructions for concrete structures
- RIL 131 Betoninormit 1987
- technical regulations for concrete
- RIL 149 Betonityöohjeet 1983
- instructions for concrete work

IVd. Steel:

- RakMK B7 Teräsrakenteet, ohjeet 1988
- instructions for steel structures
- RIL 90 Teräsrakenteiden suunnitteluohjeet 1981
- planning instructions for steel structures
- RIL 173 Teräsrakenteet, rajatilamitoitusohjeet 1988
- steel structures, guidelines for limit state design

IVe. Wood:

- RakMK B10 Puurakenteet 1983
- instructions for wood structures
- RIL 120 Puurakenteiden suunnitteluohjeet 1986
- instructions for wood structures

IVf. Foundations:

- RakMK B3 Pohjarakennus 1976
- regulations for foundations
- RIL 121 Pohjarakennusohjeet 1988
- instructions for foundations
- LPO 87 Lyöntipaalausohjeet 1988 - instructions for driven piles/Rakentajain
- SPO.78 Suurpaaluohjeet 1978 - instructions for in-situ piles/ Kustannus OY

IVg. Drainage:

- RakMK D1 Kiinteistöjen vesi- ja viemäri-laitteistot 1987
- regulations and instructions for water and sewerage
- RIL 126 Rakennusten ja tonttialueiden kuivatus 1987
- drainage of building sites

IVh. Fire:

- RakMK E1 Rakenteiden paloturvallisuus 1981 - structural fire safety
- RakMK E5 Kantavien ja osastoivien rakenteiden palonkestävyys 1977
- fire resistance of load bearing structures and separating elements

IVi. Electrical installations in buildings:

- SETI A8 Hissimääräykset 1974/Sähkötarkastuskeskus
- regulations for lifts
- SETI A1 Sähköturvallisuusmääräykset 1989/Sähkötarkastuskeskus
- safety regulations on electricity

IVj. Water and sewerage:

- LVI-RYL 86 - General quality standards in heating, plumbing and air conditioning/the Building Book Ltd. 1986
- RakMK D1 Kiinteistöjen vesi- ja viemäri-laitteistot 1987
- regulations and instructions for water and sewerage

IVk. Ventilation:

- LVI-RYL 86 - General quality standards in heating, plumbing and air conditioning/the Building Book Ltd. 1986
- RakMK D2 Rakennusten ilmanvaihto 1987
- regulations and instructions for ventilation

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

- Statistic Yearbook of Finland/Central Statistical Office of Finland
- Finnish Industry/Finnfacts 1989

Vb. Introduction to the construction sector.

- (E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)
- Rakennustietohakemisto 1988/the Building Book Ltd.
- list of authorities and organisations in the construction sector
- Building Construction statistics/Central Statistical Office of Finland

Vc. Further reading about building regulations etc.

Questionary completed by:

Martti Tiula
Martti Tiula

Seija Ralli
Seija Ralli

Date: 25.5.1989

CIB W57/1986-05-14

QUESTIONNAIRE

Building regulations and standards in FRANCE (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	0		
Standards	0		

(Please mark in appropriate box: M for mandatory, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SBC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I d. Short description of the system of building regulations and related documents.

La réglementation française concernant la construction s'exerce dans les domaines qui impliquent une responsabilité de la puissance publique, notamment : la protection de l'environnement, la sécurité des personnes, le confort, l'hygiène, l'économie (en particulier l'économie de l'énergie). De caractère national, les prescriptions relatives à la construction neuve font l'objet de lois votées par le Parlement et de textes d'application : décrets pris par le Premier Ministre, contresignés par le ou les ministres intéressés et arrêtés d'application ministériels ou interministériels précisant dans chaque domaine les objectifs à atteindre. Tous ces textes sont obligatoires. Eventuellement, des circulaires d'application peuvent être prises mais ces documents n'ont, en principe, aucune autorité vis à vis des personnes étrangères à l'Administration.

A cette réglementation s'ajoutent des textes techniques d'origines diverses (normes, documents techniques unifiés -DTU-, règles de calcul, règles professionnelles, avis techniques).

Ils constituent un ensemble de recommandations dont le respect donne l'assurance d'une bonne construction mais dont l'application n'est strictement obligatoire que dans un certain nombre de cas. Par exemple dans les marchés publics de l'Etat, certains textes techniques sont, par décret, incorporés au Cahier des clauses techniques générales (C.C.T.G.) et deviennent alors, sauf dérogation motivée, réglementairement applicables. Pour les marchés privés, les documents du marché peuvent stipuler l'application de textes techniques qui deviennent, de ce fait, contractuellement applicables. Enfin, tout contrat signé par le constructeur peut l'engager à respecter certaines clauses techniques (notamment polices d'assurance). Dans les autres cas, ils ne constituent que des recommandations. Il pourra éventuellement être fait reproche au constructeur de ne pas les avoir respectées, si l'ouvrage se révèle impropre à sa destination. Les experts, les tribunaux et les compagnies d'assurances ont coutume d'invoquer ces textes pour établir les responsabilités dans les désordres constatés.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.(1) Organization:

MINISTERE DE L'EQUIPEMENT, du LOGEMENT
DE L'AMENAGEMENT DU TERRITOIRE ET DES TRANSPORTS

Avenue du Parc de Passy
75775 PARIS Cédex 16

Phone:
45.03.91.92
Telex:

Main type of
regulations:

Règlement de la construction

(3) Organization:

ASSOCIATION FRANÇAISE DE
NORMALISATION (AFNOR)

Address:

Tour Europe-Cédex 7
92080 PARIS LA DEFENSE

Phone:
42.91.55.55
Telex:

AFNOR 611974F
Main type of
regulations:

Normes

(2) Organization:

MINISTERE DE L'INTERIEUR

Address:

18, rue Ernest Cognacq
92300 LEVALLOIS-PERRET

Phone:
47.58.11.86
Telex:

Main type of
regulations:

Réglementation Sécurité

(4) Organization:

INCENDIE
GROUPE DE COORDINATION DES
TEXTES TECHNIQUES (D.T.U.)

Address:

CSTB
4 avenue du Recteur Poincaré
75782 PARIS Cédex 16

Phone:
45.24.43.02
Telex:

PAR 610 710 F
Main type of
Regulations:

D.T.U.

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

- | | |
|--|--|
| <p>R.E.E.F. (Recueil des éléments utiles à l'établissement et à l'exécution des projets et marchés de bâtiment en France) - 1 volumes, environ 13.000p (Fre)</p> <p>Editeur : C.S.T.B.
4, Av. du Recteur Poincaré
75782 PARIS Cédex 16</p> | <p>Ce recueil, divisé en cinq parties (Textes réglementaires, Documents techniques unifiés, Normes applicables au bâtiment, Règles de calcul et exemples de solutions, Sciences du bâtiment) réunit l'ensemble des informations officielles et reconnues par les professionnels du bâtiment. Il fait l'objet d'une mise à jour trimestrielle.</p> |
| <p>Catalogue A.F.N.O.R., annuel (Fre)</p> <p>Editeur : A.F.N.O.R.
Tour Europe - Cédex 7
92060 PARIS LA DEFENSE
Tel. 778.13.26
Télex : 611 974 F</p> | <p>Le catalogue contient la liste de toutes les normes françaises en vigueur. Les normes sont réparties en classes (par exemple : classe P = Bâtiment). Le répertoire est complété d'un index par mots-vedettes qui renvoient à la sous-classe couvrant le sujet. La mise à jour du catalogue est régulièrement assurée par la revue mensuelle "Enjeux".</p> |

III b. Databases

(1) Database name:
ARIANE

Producer:
FNB-CATED

Main contents:

Banque de données de la Fédération nationale du Bâtiment, créée en 1972. Accessible via les réseaux TRANSPAC et EURONET, serveur : ARIANE. Domaines traités : réglementation technique française du bâtiment, fabricants et produits, techniques du bâtiment.

(2) Database name:
NORIANE

Producer:
AFNOR

Main contents:

Contient plus de 40 000 références de normes et projets de normes françaises, de normes et projets de normes ISO et CEI, de spécifications professionnelles françaises (DTU, UTE), de règlements techniques français (notamment du bâtiment) et européens. Accessible par l'intermédiaire d'un terminal et d'une ligne téléphonique, sur le Centre serveur QUESTEL. Télé systèmes via les réseaux TRANSPAC, EURONET, TYMNET ou via le réseau TELEX.

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

Le Moniteur des Travaux Publics et du Bâtiment.
Hebdomadaire.

II b. Bodies providing information about building regulations and standards.

(1) Organization:

Centre Scientifique et Technique
du Bâtiment (C.S.T.B.)

Address:

4 Avenue du Recteur Poincaré
75782 PARIS Cédex 16

Phone:

24.43.02

Telex:

PAR 610710 F

Main subjects:

Réglementation, informations

Techniques

Type of service:

Gratuit

(2) Organization:

Centre d'Assistance Technique et
de Documentation (CATED)

Address:

9, rue La Pérouse
75784 PARIS Cédex 16

Phone:

47.20.88.00

Telex:

FEDEBAT 611 975 CATED

Main subjects:

Réglementation, Informations

techniques, Fabricants et produits

Type of service:

Payant

II c. Organizations where building regulations can be bought or acquired.

(1) Organization:

DIRECTION DES JOURNAUX
OFFICIELS

Address:

26, rue Desaix
75727 PARIS Cédex 15

Phone:

75.78.61.39

Telex:

201176F VIRJO PARIS

Main type of

documents:

Réglementation

(2) Organization:

Centre Scientifique et Technique
du Bâtiment (C.S.T.B.)

Address:

4 Avenue du Recteur Poincaré
75782 PARIS Cédex 16

Phone:

45.24.43.02

Telex:

PAR 610710F

Main type of

documents:

D.T.U.

Règles de calcul D.T.U.

(3) Organization:

Membre ISO dans votre pays

Address:

Phone:

Telex:

Main type of

documents:

Normes françaises

(4) Organization:

Address:

Phone:

Telex:

Main type of

documents:

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

- IV a. General:** (E.g. important/laws or main code documents)
 . CODE DE LA CONSTRUCTION ET DE L'HABITATION
 . SECURITE INCENDIE DANS LES ETABLISSEMENTS RECEVANT DU PUBLIC
 En vente :
 Direction des Journaux Officiels
 26, rue Desaix
 75727 PARIS CEDEX 15
- IV b. Loading:** (Including wind, snow and earthquake loads)
 Règles définissant les effets de la neige et du vent sur les constructions (Règles NV 65 + Règles N 54)
 en vente : CSTB
- IV c. Concrete:**
 Règles BAEL 83 (béton armé aux états-limites)
 Règles PBEL 83 (béton précontraint aux états-limites-)
 en vente : CSTB
- IV d. Steel:**
 Règles de calcul des constructions en acier (Règles CM 66)
 D.T.U. 32.1 Construction métallique : charpente en acier (juin 1964)
 En vente : CSTB
- IV e. Wood:**
 Règles de calcul des charpentes en bois (Règles CB71)
 D.T.U. 31.1 Charpente et escaliers en bois (Juin 1983)
 D.T.U. 36.1 Menuiserie en bois (décembre 1984)
 en vente : CSTB
- IV f. Foundations:**
 D.T.U. 13.1 Fondations superficielles (février 1968)
 D.T.U. 13.2 Fondations profondes (Juin 1978)
 En vente: CSTB
- IV g. Drainage:**
 D.T.U. 20.1 (annexe) - ouvrages en maçonnerie de petits éléments (Septembre 1985)
 En vente : CSTB
- IV h. Fire:** Brochure n°1477 Tomes 1 à XI-Sécurité contre l'incendie. Etablissements recevant du Public
 Brochure n°1549-1 Résistance au feu des éléments de construction
 Brochure n° 1540-II Réaction au feu des matériaux de construction
 En vente : Direction des Journaux Officiel
- IV i. Electrical installations in buildings:**
 NFC 15-100 -Installation électriques à basse tension.Règles (février 1981)
 En vente : AFNOR

IV j. Water and sewerage:

D.T.U. 60.1 Plomberie sanitaire

IV k. Ventilation:

Arrêté du 24 Mars 1982 modifié par
 Arrêté du 28 Octobre 1983 - Aération dans les logements
 Journal Officiel du 27 Mars 1982 et du 15 Novembre 1983

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

France - Paris, La Documentation française, 1984. -160p.
 Publié en français- en anglais - en allemand

V b. Introduction to the construction sector:

- (E.g. Lists of adresses to authorities, organizations and companies; Descriptions, statistics).
- . Annuaire du Ministère de l'Urbanisme du Logement et des transports, 1985
 - . FADITT : Répertoire général du Bâtiment. CATED 1986
 - . INSEE Annuaire statistique de la France. - Paris, INSEE, 1985

V c. Further reading about building regulations etc:

BONHOMME (A.) - Guide pour l'établissement des projets de bâtiments. Paris, Ed. du Moniteur, 1985

Questionary completed by:

Mme Renée GREGOIRE
 (CSTB), 4, av. du Recteur Poincaré, 75775 PARIS Cédex 16 FRANCE
 Date: 1986-07-30

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in German Democratic Republic (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

Regulations and instructions for the construction industry are being issued and published in the GDR Law Gazette and/or within the Instructions of the Ministry of Construction of the GDR.

With regard to special construction work and services, in addition to the above-mentioned publications specific regulations are being issued by special enterprises/companies as industrial/works standards and/or catalogues.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| <p>(1) Organization: Ministry of Construction of the GDR
Address:
2-3, Scharrenstrasse
GDR - 1020 Berlin

Phone: 2330

Fax:

Telex: 1152355

Main type of regulations: standards, legal regulations, catalogues</p> | <p>(2) Organization: Standardization, Measurements and Goods Testing Board of the GDR
Address: the GDR
388, Fürstenwalder Damm
GDR - 1162 Berlin

Phone: 65 26 548

Fax:

Telex:

Main type of regulations: standards</p> |
| <p>(3) Organization: Academy of Building of the GDR, Institute for Design and Standardization
Address:
Plauener Strasse
GDR - 1092 Berlin

Phone: 37830

Fax:

Telex: 112150

Main type of regulations: standards</p> | <p>(4) Organization: Academy of Building of the GDR, Institute for Design and Standardization - Catalogue Centre
Address:
Plauener Strasse
GDR - 1092

Phone: 37830

Fax:

Telex: 112150

Main type of regulations: catalogues</p> |

Iib. Bodies providing information on building regulations and standards.

- | | |
|--|--|
| <p>(1) Organization: Academy of Building of the GDR, Institute for Design and Standardization
Address: Design and Standardization
a) Coordination Body for Standardization
b) Catalogue Centre
Phone: Plauener Strasse
GDR - 1092 Berlin
Fax: 37830
Telex: 112150
Main subjects:
All subjects
Type of service:</p> | <p>(2) Organization: Academy of Building of the GDR, Building Information Centre
Address: 27, Wallstrasse
GDR - 1020 Berlin
Phone: 278030
Fax:
Telex:
Main subjects:
All subjects
Type of service:</p> |
|--|--|

Iic. Organizations where building regulations can be sought or acquired.

- | | |
|--|---|
| <p>(1) Organization: Verlag für Standardisierung (Standardization Publishing House)
Address: 8, Dessauer Strasse
GDR - 7010 Leipzig
Phone: 52089
Fax:
Telex:
Main type of documents:
standards, catalogues</p> | <p>(2) Organization: Academy of Building of the GDR, Building Information Centre
Address: 27, Wallstrasse
GDR - 1020 Berlin
Phone: 278030
Fax:
Telex:
Main type of documents:
standards, catalogues</p> |
| <p>(3) Organization:
Address:

Phone:
Fax:
Telex:
Main type of documents:</p> | <p>(4) Organization:
Address:

Phone:
Fax:
Telex:
Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

- IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)
- Index on the Integrated System of Technical Regulations and Instructions; published annually
Publisher: Academy of Building of the GDR
Contents: permuted title index and bibliographic data concerning standards and legal regulations
- Catalogue Summary Review; published annually
Publisher: Academy of Building of the GDR

IIIb. Databases.

- (1) Database name: Spezielspeicher für Projektierungsgrundlagen
Producer: (special memory for design fundamentals)
Academy of Building of the GDR
Main contents: standards, legal regulations, catalogues

IIIc. Other systems of information.

- (E.g. periodicals, news columns in journals)
- Microfiche store for the Integrated System of Technical Regulations and Instructions on construction and for the Construction Catalogue System
- Periodical "Bauinformation Wissenschaft und Technik (Science and Technology Building Information) "Standardisierung im Bauwesen" (Standardization in Construction)
issued and published annually in six numbers
Publisher: Academy of Building of the GDR

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Ordnung über die Vorbereitung und Durchführung von Investitionen (Investordnung) (Regulation on the preparation and implementation of investments (Investment Regulation))
- 2) All building Regulations of the GDR are published in the index "Technical Regulations and Construction Catalogues of Building" and are updated annually. Publisher: Academy of Building of the GDR, Building Information Centre.

IVb. Loading: (Including wind, snow and earthquake loads)

TGL Design Loads for Buildings

IVc. Concrete:

Einheitliches Technisches Vorschriftenwerk Beton (ETV Beton) (Integrated System of Technical Regulations and Instructions on Concrete)

IVd. Steel:

Stahlbauvorschriften (TGL) (Standard Regulations for Steel Construction)

IVe. Wood:

TGL für den Einsatz von Holz (Standard Specification for the Use of Timber)

IVf. Foundations:

Vorschriften über Gründungen (TGL) (Standard Rules and Regulations for Foundations)

IVg. Drainage:

IVh. Fire:

TGL 10685 (Komplex) - Bautechnischer Brandschutz (Structural Fireproofing and Fire Protection Standard Specification)

IVi. Electrical installations in buildings:

TGL für Elektroinstallation (Standard Specification for Electrical Installations)

IVj. Water and sewerage:

TGL für Wasser- und Abwassernetze (Standard Specification for Water Supply and Sewerage Systems)

IVk. Ventilation:

TGL für Lüftung von Wohngebäuden und Industriegebäuden (Standard Specification for Ventilation of Residential and Industrial Buildings)

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Figures and Facts on the GDR Illustrated art books on landscapes, cities and towns of the GDR

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

Periodicals "Bauforschung - Baupraxis" (Construction Research and Practice/Technique) and "Bauinformation Wissenschaft und Technik" (Science and Technology Building Information). Illustrated art books on buildings, structures and architectural epochs.

Vc. Further reading about building regulations etc.

Comments on the technical regulations, instructions and specifications. Publisher: Verlag für Standardisierung (Standardization Publishing House) and publishers for specific publications and subjects.

Questionary completed by:

Günter Heim, Deputy Director Academy of Building of the GDR, Building Information Centre 27, Wallstrasse GDR - 1020 Berlin

Date: May 12, 1989

Survey of selected most important structural regulations of the GDR - Technical Norms, Quality Regulations and Terms of Delivery (TGL)

TGL-Nr.	Ausgabe	T i t o l
TGL 13450/01	9.75	Structural Steel Engineering; Steel Supporting Structures for Building; Permissible Stress Design, Structural Details
TGL 13500/01	4.82	Structural Steel Engineering; Steel Structures, Calculation, Structural Design
TGL 13500/02	4.82	Structural Steel Engineering; Steel Structures; Explanations, Possibilities of Calculation
TGL 13502	5.77	Steel Construction; High-strength Bolted Connections; Analysis Design
TGL 13503/01	4.82	Steel Structures; Stability of Steel Supporting Structures; Fundamentals
TGL 13503/02	4.82	Steel Structures; Stability of Steel Supporting Structures; Explanations and Possibilities of Calculation
TGL 13510/01	6.84	Structural Steel Engineering; Manufacture of Steel Structures; General Requirements, technical Documentation, Material
TGL 13510/02	8.87	-; -; Treatment of the component Parts and Assembly
TGL 13510/03	6.84	-; -; Riveted and bolted Connections
TGL 13510/04	8.87	-; -; Welded Connections
TGL 13510/05	9.75	-; -; Storage and Transport

TGL-Nr.	Ausgabe	T i t e l
TGL 13510/06	9.75	-; -; Erection
TGL 13510/07	5.84	-; -; Maximum Variation of Dimensions without Tolerance, admissible Error of Form and Position
TGL 13510/08	9.75	-; -; Protection against Corrosion
TGL 13510/09	6.84	-; -; Testing and Control
TGL 18730/01	12.81	Protection against Corrosion; Surface Preparation; Mechanical Procedure
TGL 18730/02	4.77	-; -; Original State, Changing Degree, Estimation
TGL 18730/03	4.77	-; -; Grading and Determination of Roughness
TGL 18733/01	7.86	Protection against Corrosion; Hot-dipped Protective Coatings, hot-galvanized Protective Coatings; Technical Requirements, Testing
TGL 33402	10.80	Concrete Construction; Design Bases
TGL 33403	10.80	Concrete Construction; Characteristic Values of Strength and Deformation
TGL 33405/01	10.80	Concrete Construction; Ultimate and Serviceability Limit State Design; Concrete and Reinforced Concrete Structures
TGL 33405/02	10.80	-; -; Prestressed Concrete Structures
TGL 32639	10.87	Working Rooms; Specifications of Hygiene

TGL-Nr.	Ausgabe	T i t o l
TGL 27520/01	10.78	(Heat Consumption Normatives for Space Heating; Residential Building with Central Heating)
TGL 27520/02	11.80	(Heat Consumption Normatives for Space Heating; Energetic Quality of Social Buildings; Principle Requirements)
TGL 27520/03	11.80	(Heat Consumption Normatives for Space Heating; Energetic Quality of Social Buildings; Fundamentals of Design)
TGL 9552/01	7.81	Dwelling-houses; General Demands to Dwelling - houses and Dwellings
TGL 9552/02	7.81	Dwelling - houses; Kitchens, Kitchens Hoods, Cooking - lines
TGL 9552/03	7.87	Dwelling - houses; Sanitary - rooms
TGL 10685/01	11.88	Fire Protection in Construction; Terminology
TGL 10685/02	4.82	-; Fire Load, Grades of Fire Load
TGL 10685/03	4.82	-; Fire Barriers; Fire Protective Spacing of Buildings
TGL 10685/04	4.82	-; Evacuation Routes for People in Structures
TGL 10685/05	4.82	-; Water Supply for Fire Extermination Purpose; Access Ways and Approach Roads for the Fire Brigade
TGL 10685/06	4.82	-; Fire Hazard Classes

TGL-Nr.	Ausgabe	T i t o l
TGL 10685/07	4.82	-; Fire Resistance Classes; Requirements to Finishing Constructions
TGL 10685/08	4.82	-; Size of Fire Section
TGL 10685/09	4.82	-; Smoke and Heat Conduction
TGL 10685/12	8.88	Fire Protection in Building; Fire Spreading Degree of Building Parts Testing
TGL 10699	3.76	Sanitary Rooms; Lavatories, Wash-rooms and Dressing Rooms; Functional, Hygienical and Structural Requirements
TGL 10733/01	1.84	Public Health Buildings; Ward-houses; Requirements regarding Funktion, Construction and Fire-protection
TGL 10733/02	1.84	-; Polichinics and medical practices; Requirements regarding Funktion, Construction and Fire-protection
TGL 26760/01	9.85	Heating Technics; Heating Loads of Buildings; Calculation Method
TGL 26760/02	9.85	-; -; Calculation Quantities
TGL 26760/03	3.86	-; -; Rooms higher than 5 Meters
TGL 26760/06	3.79	-; -; Enclosed Spaces with Storage Space Heaters
TGL 31100	3.81	Unified System of Design Documentation of CMB; Illustration of Walls, Columns
TGL 31104	7.82	-; Illustration of Chimneys and Air Ducts
TGL 12860/01	7.82	Geometric Accuracy in Building; Vocabulary and Symbols
TGL 12860/02	7.82	-; Basic Rules

TGL-Nr.	Augabe	T i t o l
TGL 32274/01	12.76	Design Loads for Buildings; Basic Requirements
TGL 32274/02	5.79	-; Standard Dead Loads and Angles of Friction
TGL 32274/03	12.76	-; Live Loads
TGL 32274/05	12.76	-; Snow Loads
TGL 32274/07	12.76	-; Wind Loads
TGL 35424/01	2.81	Structural Heat Insulation; General Requirements, Fundamentals, Outside Climate, Weather protection
TGL 35424/02	12.85	-; Values, Units, Charac- teristics
TGL 35424/03	12.85	-; Insulation in the cold Season
TGL 35424/04	2.81	-; Heat Insulation in the warm Season
TGL 35424/05	2.81	-; Moisture Balance of Structural Parts
TGL 35424/06	2.87	-; Heat Conduction of Floors
TGL 35424/07	2.81	-; Economical Heat Insu- lation
TGL 37706	10.81	Modular Coordination in Building Construction; Basic - Principles
TGL 37708	10.82	Modular Co-Ordination in Building; Nominal Dimensions for residential and public buildings and for Buildings of Industry and Agriculture
TGL 35792	5.81	Building Constructions and Fundamentals; General Principles for Design Calculation

QUESTIONNAIRE

Building regulations and standards in GHANA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	H		
Codes/regulations	O	M	M
Standards	O		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:
Ghana Building Code (Draft) issued by the Building and Road Research Institute for use and discussion. Final version to be backed by law and be mandatory nationally.

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

- British Standards (BS)
- Ghana Building Code
- Building Regulations for Municipal Authorities

I d. Short description of the system of building regulations and related documents.

Regulations governing buildings in various municipalities are issued as part of the ordinances of district health Boards. The powers to implement these laws are inherent in the laws setting up the municipal authorities.

Codes and standards that are used in designing sections of buildings to satisfy the municipal ordinances are optional (BS, Ghana Building Code, General Specifications for Building Works, etc.)

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- (1) Organization: BUILDING AND ROAD RESEARCH INSTITUTE
Address: UNIVERSITY P.O. BOX 40 KUMASI-GHANA
- (2) Organization: GHANA STANDARDS BOARD (GSB)
Address: P.O. BOX M. 245 ACCRA - GHANA

Phone:

Phone:

Telex:

Telex:

Main type of regulations:

Main type of regulations:

BUILDING CODES

GHANA STANDARDS

- (3) Organization: PUBLIC WORKS DEPARTMENT

- (4) Organization:

Address:

Address:

P.O. BOX 136
ACCRA
GHANA

Phone:

Phone:

Telex:

Telex:

Main type of Regulations:

Main type of Regulations:

BUILDING SPECIFICATIONS

I I b. Bodies providing information about building regulations and standards.

- | | |
|---|--|
| <p>(1) Organization:
BUILDING AND ROAD RESEARCH INSTITUTE(BRRI)
Address:
UNIVERSITY P.O. BOX 40
KUMASI, GHANA</p> <p>Phone:</p> <p>Telex:</p> <p>Main subjects:
ALL SUBJECTS, ESPECIALLY THOSE THOSE TO DO WITH LOW AND MEDIUM COST BUILDINGS.</p> <p>Type of service:
Consultancy in building design and construction - Publication of research findings. Source of ref. for Ghanaian & other codes.</p> | <p>(2) Organization:
a. Public Works Department
b. Ghana Standards Board
Address:
a. P.O. Box 136, ACCRA, GHANA
b. P.O. Box M. 245, ACCRA- GHANA</p> <p>Phone:</p> <p>Telex:</p> <p>Main subjects:
All Subjects</p> <p>Type of service:
User agencies and consultancy Source of reference for other codes(in the case of (b))</p> |
|---|--|

I I c. Organizations where building regulations can be bought or acquired.

- | | |
|---|--|
| <p>(1) Organization:
BRRI
Address:
University Box 40
Kumasi, Ghana</p> <p>Phone:</p> <p>Telex:</p> <p>Main type of documents:
Ghana Building Code Reference for other building codes(Eg British)</p> | <p>(2) Organization:
Ghana Standards Board
Address:
P.O. Box M 245
Accra, Ghana</p> <p>Phone:</p> <p>Telex:</p> <p>Main type of documents:
Reference for Ghanaian and other codes</p> |
| <p>(3) Organization:
a. Public Works Department
b. Architectural & Engineering Services Corporation
Address:
c. P.O. Box 3969, ACCRA</p> <p>Phone:</p> <p>Telex:</p> <p>Main type of documents:
General specification for Building Works</p> | <p>(4) Organization:
Services Corporation
Address:</p> <p>Phone:</p> <p>Telex:</p> <p>Main type of documents:</p> |

I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.**I I I a. Published or unpublished lists or catalogues.**

(Please state for each document: Title, year of issue, publisher and main contents).

NIL

I I I b. Databases

NIL

- | | |
|---|---|
| <p>(1) Database name:</p> <p>Producer:</p> <p>Main contents:</p> | <p>(2) Database name:</p> <p>Producer:</p> <p>Main contents:</p> |
|---|---|

I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

BRRI Research Publications and Institute Reports
Government Laws and Ordinances
Ghana Standards and Regulations(Ghana Standards Board)

- IVa General
GHANA BUILDING CODE (Draft)
Publisher: Building and Road Research Institute, Ghana
Date: 1977 (Parts 3 & 4), 1979 (Parts 1 and 2)
A draft code which is a revision and modification of the building codes of 1940's and 1960. A final code is to be presented after a thorough criticism of this draft code. The final code is intended to be made up of 5 parts, the first four of which have been issued in the draft form.
MUNICIPAL ORDINANCES
These are specifications governing the siting, construction of buildings and parts of building. They are backed by laws setting up the municipal Councils
- IVb Administration, Use and Occupancy
Ghana Building Code (GBC), Parts 1 and 2 (1979).
Covers limitations of the application of the code and legal duties, responsibilities or obligations of users and administrators of the provisions of the Code. (Part 1) Pg. 1-16
Gives the dimensions of building for which the code is applicable and the minimum dimensions of parts, architectural and structural elements to ensure adequate fire resistance (Part 2) Pg. 17 - 158.
Regulations for small Buildings are covered in Part 5 (to be published)
Distribution: BRRI
- IVc Loading
Load and Imposed (including wind and earthquake loads) GBC Part 3 Pg. 1 - 62
Distribution: BRRI
CP. 3 Chapter 5
Distribution: British Standards
- IVd Concrete
Various British Standards: CP110, BS12, CP2004, BS5400 etc
Distribution: British Standards
General Specification for building Works (1959), Min. of Works + Housing Sect, 101 - 181
Structural Specification No. 1 (1956); (Normal Reinforced Concrete and Concrete Building), Public Works Department, Gold Coast
Distribution: Gov't Printer, Accra (out of Print)
(In foundation) GBC Part 4 (Pg. 66-67)
Distribution: BRRI
- IVe Steel
British Standards: BS 449, BS 5940
Distribution: British Standards Institute
(In Foundation) GBC Part 4 (Pg. 66 - 67)
Distribution: BRRI

- IVf Wood
BS 112. Distribution: British Standards
Stress Grading of West African Timbers (BRRI Publication)
(In foundation) GBC Part 4 Pg. 66
Distribution: BRRI
General Specification for building Works, Ministry of Works and Housing 1959 Sections 190 - 225
Distribution: Ghana Gov't Printer (Out of Print)
- IVg Foundations
GBC Part 4 (Pg. 63 - 74)
Covers general guide to the design and construction of building foundations.
General Specification for Building Works, Ministry of Works and Housing (1959), Section 46 - 65
- IVh Fire
GBC Part 2; Section 2.1.5 - 2.4
Gives guides to the dimensions and general arrangement of elements and to openings to ensure adhesion to the provisions of the fire code.
Distribution: BRRI
- IVI Drainage, Water and Sewerage
General Specification of Building Works
Various Municipal Ordinances
Distribution: Ministry of Works and Housing; Ministry of Local Government

IV j. Water and sewerage:

IV k. Ventilation:

V **BIBLIOGRAPHY**

(Suggestions for literature of interest).

V a. General information on the country:

GHANA TODAY by REMY, Mylene

translated by Barbara SHOHEY Paris Editions(51 avenue des
termes - 75 017 Paris) 1977. ISBN 2 - 85258 - 045 - 4

V b. Introduction to the construction sector:

(E.g. Lists of adresses to authorities, organizations and
companies; Descriptions, statistics).

1. Survey on the scientific and technical potential of
the countries of Africa.
Pages 82 -92
Published by Unesco Field Service Office for Africa,
Nairobi, Kenya.
2. Directory of Building Research Information and
development Organisations
CIB publication 1971.

V c. Further reading about building regulations etc:

Questionary completed by:

DR. K. AMONOO-NEIZER

Date: 30th June 1986.

QUESTIONNAIRE

Building regulations and standards in GREECE (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.Comments: Yes NoIc. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM...)

Comments:

German Standards DIN, British Standards BS, American UBC, ASTM are used when there is not a Greek Standard.

Id. Brief description of the system of building regulations and related documents.

Regulations for buildings are issued by the Ministry of Environment, Planning and Public Works. Department of Housing and Planning issued the main document (TOK) "General Building Regulations" on 1973 revised recently on 1985. This department is also responsible for fire, thermal, acoustics etc. regulations.
 Department of Public Works issues regulations on concrete, earthquake loading, roads, bridges etc.
 Greek regulations usually follow international principles New earthquake regulations include modern calculation methods
 Greek Standards are not always referred to the regulations. They have a mandatory power.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| (1) | (2) |
| Organization: Ministry of Environment Planning and Public Works | Organization: Ministry of Environment Planning and Public Works |
| Address: Panormou 2
115 23 ATHENS
GREECE | Address: Amaliados St. 17
115 23 ATHENS
GREECE |
| Phone: (30)-(1)-6433300 | Phone: (30)-(1)-6442682 |
| Fax: | Fax: |
| Telex: | Telex: 022 2088-0225938 |
| Main type of Building planning regulations: § building construction | Main type of regulations: Loading, Concrete, Earthquake Roads, Bridges |
| (3) | (4) |
| Organization: Greek Standards Organization ELOT | Organization: Ministry of Industry |
| Address: Didotou St. 15
106 80 ATHENS
GREECE | Address: Michalakopoulou St.80
GR-115 28 ATHENS |
| Phone: (30)-(1)-3646671 | Phone: (30)-(1)-7708615 |
| Fax: 3644569 | Fax: |
| Telex: | Telex: |
| Main type of regulations: Greek standards | Main type of regulations: Electrical installations Heating, Ventilation etc. |

IIb. Bodies providing information on building regulations and standards.

(1)	(2)
Organization:	Organization:
Address:	Address:
The above mentioned (IIa) organizations	
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main subjects:	Main subjects:
Type of service:	Type of service:

IIc. Organizations from which building regulations are available.

(1)	(2)
Organization: Ministry of Environment ΥΠΕΧΩΔΕ	Organization: "ΕΘΝΙΚΟ ΤΙΠΟΓΡΑΦΗΙΟ" Καποδιστρίου 34
Address: Amaliaδος St 17 115 23 ATHENS	Address: 104 32 ATHENS

Phone: (030)-(1)-6442682
Fax:
Telex: 0222088-0225398

Main type of documents: Various building regulations

(3)
Organization: Greek Standards Organization
Address: ΕΛΟΤ
(as in IIc)

Phone:

Fax:

Telex:

Main type of Greek Standards documents:

Phone: (30)-(1)-5225713
Fax:
Telex:

Main type of documents: Government prints
Law texts (ΦΕΚ)

(4)
Organization:
Address:

Phone:

Fax:

Telex:

Main type of documents:

III. CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Δομική-Ενημέρωσις - (Domiki Enimerosis) in greek (15 volumes)
Bouboulinas St. 4
106 82 ATHENS
tel. (030)-(1)-3638344, 3614120
Contains all new and revised regulations, laws, specifications and standards referred to construction

IIIb. Databases.

(1)	(2)
Database name:	Database name:
Producer:	Producer:
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)
"Enimerotico Deltio TEE" (Weekly journal)
Technical Chamber of Greece
Karageorgi Servias 4
102 46 ATHENS
and Domiki Enimerosis mentioned above in IIIa

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

1. Γενικός Οικοδομικός Κανονισμός N.1577/85-N.1647/86-N.1772/88
"(General Building Regulations)"
2. Ελληνικός Κανονισμός Οπλισμένου Σκυροδέματος Δ.18.2.1954
(ΦΕΚ 160Α/1954) ΦΕΚ 142 Δ/12.11.1962
"(Greek Reinforced Concrete Regulations)"
3. Αντισεισμικός Κανονισμός ΦΕΚ 239Β/16.4.1984
"(Earthquake Regulations)"

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

Ελληνικός Κανονισμός Φορτίσεως Δομικών Έργων Δ.10.12.1945
"Greek Loading Regulations"

IVc. Concrete:

Κανονισμός Τεχνολογίας Σκυροδέματος ΦΕΚ 266/Β/9.5.1985
"Concrete Technology Regulations"
and the above mentioned numbers 2 and 3 of IVa General Regulations

IVd. Steel:

Various specification and standards

IVe. Wood:

IVf. Foundations: There are articles in the above mentioned numbers 1 and 3 of IVa General Regulations

IVg. Drainage: General Building Regulations

IVh. Fire: Κανονισμός Πυροπροστασίας Κτιρίων Π.Δ. 71/18.2.1988 (ΦΕΚ 32)
Fire Regulations in Buildings

IVi. Electrical installations in buildings:

Κτιριοδομικός Κανονισμός ΦΕΚ 59/Δ/3.2.1989
Building Construction Regulations Article 30

IVj. Water and sewerage:

Building Construction Regulations ΦΕΚ 59/Δ/3.2.1989
Κτιριοδομικός Κανονισμός Article 26

IVk. Heating and ventilation:

Κτιριοδομικός Κανονισμός ΦΕΚ 50/Δ/3.2.1989
(Building Construction Regulations) Articles 27, 28

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

1. Δομική Ενημέρωση (Domiki Enimerosis) in greek mentioned above
2. Τεχνική Ενημέρωση (Techniki Enimerosis) in greek
3. Επετηρίδα Στατικής Υπηρεσίας (National statistical data) (in greek and english)

Vc. Further reading about building regulations etc.

Questionnaire completed by:

Prof. K. K. Papaioannou
Dept of Civil Engineering
Aristotle University
P.O. Box 429,

Date: 1989-05-30

540 06 THESSALONI, GREECE

QUESTIONNAIRE

Building regulations and standards in HUNGARY (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		M
Codes/regulations	M		M
Standards	M		

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments: The National Building Code issued by the former ministry of building, is adapted for the City of Budapest with amendments.

Ic. Regulations and standards from abroad are used.

Yes, in general ^{1/} Yes, sometimes ^{2/}

 No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM...)

Comments:

- 1/ The CMEA standards were adopted without amendments until 1983 according to the Convention on Application of CMEA Standards /1976/. Recently Hungary adopts only those, which are of major importance in her economy.
 2/ Considerably increases the number of ISO and EN standards adopted into Hungarian standards' system.

Id. Brief description of the system of building regulations and related documents.

- The base of the regulative documents for the Building is the NATIONAL CODE OF BUILDING /NCB/. Last issue came into force 1986.07.01. Its technical content is expressed to a great extent in functional requirements. Level: mandatory

The national and sectoral standards, altogether: the state standards - to calculation methods, construction, building materials etc. - are deemed-to-satisfy means for the terms of NCB. Level: mandatory

- The technical Specifications and Technical Guidelines are optional but are good measures to satisfy the requirements of NCB not covered yet with standard.

- In sense of a new law "On the Standardization and the Quality" a Ministerial Ordinance provides for the new products, constructions and materials not standardized yet.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | | | |
|---|--|-----|---|
| (1) | Organization: Ministry of Transport, Communication and Construction /MTCC/
Address: BUDAPEST
Dob utca 75-81
H-1077
Phone: /36-1-/220-220
Fax:
Telex: | (2) | Organization: Building Standardization Center,
Inst. for QC in Building
Address: BUDAPEST
Dioszegi ut 37
H-1113
Phone: /36-1-/851-511
Fax: 22-65-07
Telex: |
| Main type of regulations: National Code of Building Ministerial Ordinances relating to building | Main type of regulations: Standards, Technical Specifications and Technical Guidelines /sectoral/ | | |
| (3) | Organization: Hungarian Office of Standardization
Address: BUDAPEST
Ullői ut 25.
H-1092
Phone: /36-1-/183-011
Fax:
Telex: | (4) | Organization: Municipal Council of Budapest
Address: BUDAPEST
Városház utca 9-11
H-1052
Phone: /36-1-/186-033
Fax:
Telex: |
| Main type of regulations: State standards | Main type of regulations: Building Code of Budapest | | |

Ib. Bodies providing information on building regulations and standards.

(1) Organization: see IIa/2/ Address: Phone: Fax: Telex: Main subjects: NCB, standards and regulations for building and fitting, certifications Type of service: on new materials	(2) Organization: Building Information Centre /Építésügyi Tájékoztatási Központ/ Address: BUDAPEST Hársfa utca 21. Phone: /36-1-/422-183 Fax: Telex: Main subjects: Comprehensive information on building Type of service:
--	---

Ic. Organizations from which building regulations are available.

(1) Organization: see IIa/2/ Address: Phone: Fax: Telex: Main type of documents:	(2) Organization: see II b/2/ Address: Phone: Fax: Telex: Main type of documents:
(3) Organization: Address: Phone: Fax: Telex: Main type of documents:	(4) Organization: Address: Phone: Fax: Telex: Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Állami Szabványok Jegyzéke, 1989, Szabványkiadó.
/contents: catalogue of state standards/
Építésügyi Műszaki Szabályozási Kiadványok Jegyzéke, 1982.
Építésügyi Tájékoztatási Központ.
/contents: list of technical regulative documents for the building/

IIIb. Databases.

(1) Database name: SZISZ-ÉMIMAT Producer: ÉTK(Inf.Centre of Build.)	(2) Database name: QUICK INDEX Producer: ÉTK
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

The legislative measures relating to the building sector are gazetted in the Közlekedési, Hírközlési és Építésügyi Értesítő published by the MTECC. All organizations listed above publish progress reports. Annual lists are published on the building regulative documents /IIa/2/, on the standards /IIa/3/. Relevant monthly publications are the Szabványügyi Közlöny, a bulletin of standardization and the Tervezési Tájékoztató, a design information.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g. important laws or main code documents)

Országos Építészeti Szabályzat 1986./National Code of Building/
A szabványosításról és a minőségügyről, 78/1988. /XI.16/ MT.
/Law on standardization and quality/
Az újfajta termékek és műszaki megoldások építőipari alkalmazásáról és az építészeti műszaki előírásokról, 15/1982.
/VIII.9/ EVM / Ministerial ordinance on application of new products and technical solutions in building as well as on building technical specifications/

IVb. Loading: (Including live loads, wind loads and earthquake loads)

MSZ 15020-86
15021/1-86
15021/2-86 MSZ: Hungarian Standard

IVc. Concrete: reinforced concrete, too:

MSZ 15022/1-7,-86

IVd. Steel:

MSZ 15024/1-4,-85

IVe. Wood:

MSZ 15025 -86

IVf. Foundations:

MSZ 15021-87

IVg. Drainage:

MSZ 7487/1-3,-80

IVh. Fire:

MSZ 595/1-9,-86

IVi. Electrical installations in buildings:

MSZ 1600/1-15,-86

IVj. Water and sewerage:

MI-10 167-87 MI: Technical Guidelines, -10: sectoral, of
-04 134-83 -04: of building

IVk. Heating and ventilation:

MSZ-04-140/ 1-4,-84
142/1- 3,-83 MSZ-04: sectoral standard, of building
135/1- 3,-84

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

Vc. Further reading about building regulations etc.

Építészeti Műszaki Szabályozás, ÉTK 1980, 310 p.

Questionnaire completed by:

Berseny Zsuzsa
EMI-ESZK-Institute of Quality Control in Building, Building
Standardization Center
BUDAPEST, Diószegi ut 37. H-1113 Hungary

Date:

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in ICELAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M/O		

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

One code applies in the entire country

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly, E.g. British BS; American UBC, ASTM....)

Comments:
Icelandic standards are used if they exist, otherwise DS, BST, NS, etc.

Id. Short description of the system of building regulations and related documents.

Regulations for building construction are issued by The Ministry of Social Affairs in Icelandic Building Code. The regulations are based on the Building Law issued by the Government.

Icelandic standards are referred to in the Building Code. Some are mandatory, some optional and some not existing.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Ia. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|---|
| (1) Organization: Ministry of Social Affairs | (2) Organization: Icelandic Council for Standardization |
| Address: Hafnarhúsinu Tryggvagötu 101 REYKJAVÍK Iceland | Address: Keldnaholt 112 REYKJAVÍK Iceland |
| Phone: +354-1-25000 | Phone: +354-1-687000 |
| Fax: | Fax: |
| Telex: | Telex: |
| Main type of regulations: Icelandic Building Code | Main type of regulations: Icelandic Standards |

- | | |
|---------------------------|---------------------------|
| (3) Organization: | (4) Organization: |
| Address: | Address: |
| Phone: | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main type of regulations: | Main type of regulations: |

IIb. Bodies providing information on building regulations and standards.

- | | |
|---|-------------------|
| (1) Organization: Building Research Institute | (2) Organization: |
| Address: Keldnaholt
112 REYKJAVIK
ICELAND | Address: |
| Phone: +354-1-83200 | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main subjects: | Main subjects: |
| Type of service: | Type of service: |

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|--|-------------------------|
| (1) Organization: The State Town Planning Department | (2) Organization:-- |
| Address: Laugavegi 166
105 REYKJAVIK
ICELAND | Address: |
| Phone: +354-1-29344 | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main type of documents: Icelandic Building Code | Main type of documents: |
-
- | | |
|-------------------------|-------------------------|
| (3) Organization: | (4) Organization: |
| Address: | Address: |
| Phone: | Phone: |
| Fax: | Fax: |
| Telex: | Telex: |
| Main type of documents: | Main type of documents: |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

- IIIa. Published or unpublished lists or catalogues.**
-
- (Please state for each document: Title, year of issue, publisher and type of contents)

IIIb. Databases.

- | | |
|--------------------|---------------------|
| (1) Database name: | (2) Database name: |
| Producer: | Producer: |
| Main contents: | --Main contents: -- |

IIIc. Other systems of information.
 (E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Byggingarlög (Building Law)
Distribution: The State Town Planning Department
- 2) Byggingarreglugerð (Building Code)
Distribution: The State Town Planning Department

IVb. Loading: (Including wind, snow and earthquake loads)

IST-12, IST-13
Distribution: Icelandic Council for standardization

IVc. Concrete:

IST-14 as of 1989-11-01

IVd. Steel:

IST/DS 412 as of 1989-11-01

IVe. Wood:

IST/DS 413 as of 1989-11-01

IVf. Foundations:

No existing

IVg. Drainage:

Not existing

IVh. Fire:

Reglugerð um raforkuvirkni (Regulations on Electrical Installations)
Distribution: The State Electrical Inspection

IVi. Electrical installations in buildings:

Byggingarreglugerð um raforkuvirkni (Regulations on Electrical Installations)
Distribution: The State Electrical Inspection

IVj. Water and sewerage:

Byggingarreglugerð (Building Code)
Distribution: The State Town Planning Department

IVk. Ventilation:

Byggingarreglugerð (Building Code)
Distribution: The State Town Planning Department

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

Vc. Further reading about building regulations etc.

Questionary completed by:

Hafsteinn Pálsson
Building Research Institute
Reykjavík, ICELAND

DATE: 1989-08-15

Date:

QUESTIONNAIRE

Building regulations and standards in Islamic Republic of Iran (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	O		
Standards	M		

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Model codes are under preparation by various concerned governmental organisations throughout the country

Enclosed to this questionnaire you can find a list of codes and standards which are under preparation by this center.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly: E.g. British Standards BS; American UBC, ASTM....)

Comments: ACI 318
 ISC: American Institute of Steel construction publications
 ASTM Standards
 British standards and codes of practice
 DIN German Standards

Id. Brief description of the system of building regulations and related documents.

Town and urban planning codes and regulations are issued and controlled by local municipalities and the engineers are obliged to report the construction operations to the local municipalities in different phases. The building and civil engineering standards which were introduced in section IC of this questionnaire are usually performed by civil engineers but these are optional and under the engineers own responsibility.

Architectural standards and regulations are issued by the Bureau of Housing and Urban Development of the Central Municipality

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| (1) | (2) |
| Organization: Tehran Municipality
Bureau of Housing & Urban
Development,
Iranshahr Avenue,
Tehran - Iran | Organization: Building & Housing Research Center
Address: P.O. Box 13145-1696
Tehran - Iran |
| Phone: 8101344 - 8101339 (Tehran)
Fax:
Telex: | Phone: 985941-6
Fax:
Telex: 212117/MHUD/BHRC |
| Main type of regulations: Architectural Standards
Town and urban planning
regulations | Main type of regulations: Civil engineering, materials |
| (3) | (4) |
| Organization: Ministry of Planning and
Budgeting
Address: Bureau of Building Research
and standards,
Baharestan Square,
Tehran - Iran | Organization: Institute of Standards and Industrial
Research of Iran
Address: Karaj Industrial Town
Karaj
Iran |
| Phone: 3271 (Tehran)
Fax:
Telex: | Phone: 02221-1031-38
Fax:
Telex: |
| Main type of regulations: | Main type of regulations: Materials |

Ib. Bodies providing information on building regulations and standards.

<p>(1) Organization: Building & Housing Research Center Address: P.O. Box 13145-1696, Tehran - Iran Phone: 985942-46 Fax: Telex: 212117 Main subjects: Civil engineering, housing materials, architecture Type of service: Publications, Information & Documentation Center Testing labs, Consulting services</p>	<p>(2) Organization: Ministry of Planning and Budgeting Bureau of Building Research and Standards Address: Baharestan Square, Tehran - Iran Phone: 3271 Fax: Telex: Main subjects: Civil engineering materials, architecture Type of service: Publications</p>
--	--

Ic. Organizations from which building regulations are available.

<p>(1) Organization: Building and Housing Research center, Address: P.O. Box 13145-1696 Phone: Fax: Telex: Main type of documents: Standards, Codes of Practice, Research papers, regulations</p>	<p>(2) Organization: Ministry of Housing and Urban Development, Address: Bijan Avenue, Vanak Sq., Tehran - Iran Phone: 2130 (Tehran) Fax: Telex: 212117 Main type of documents: Architectural standards</p>
<p>(3) Organization: Institute of Standards & Industrial Research of Iran Address: Karaj Industrial Town Karaj, Iran Phone: 02221-1031-8 Fax: Telex: Main type of documents: Standards only</p>	<p>(4) Organization: Ministry of Planning and Budgeting, Centre of Socio economic Information (Central Library) Address: Baharestan Sq., Tehran - Iran Phone: 3271 (Tehran) Fax: Telex: Main type of documents:</p>

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Isiri Standards Yearbooks
 BHRC Publications list
 Information Bulletin of Information & Documentation Department of The Building and Housing Research Center (Includes standards and codes refs.)
 BHRC Annual Reports
 Ministry of Planning and Budgeting Publications List

IIIb. Databases.

<p>(1) Database name: Producer: Main contents:</p>	<p>(2) Database name: Producer: Main contents:</p>
--	--

IIIc. Other systems of information.
(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

ISIRI Standards and codes of practice concerned with structural and civil engineering

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

ISIRI Standard 519
BHRC Publication No.82: Iranian Code for Seismic Resistant Design of Buildings

IVc. Concrete:

ISIRI Code of Practice NO.18-5
ACI Standard 318

IVd. Steel:

AISC standards and publications

IVe. Wood:**IVf. Foundations:**

relevant code is under preparation by Building & Housing Research Center

IVg. Drainage:**IVh. Flre:****IVi. Electrical installations in buildings:**

ISIRI Standards No.9 & 10

IVj. Water and sewerage:

ISIRI Standard No.1779 (Includes only testing procedures)

IVk. Heating and ventilation:**V BIBLIOGRAPHY**

(Suggestions for literature of interest)

Va. General information on the country.

There are many publications, books etc about Iran in Farsi language, but for English and foreign language documents it is suggested to ask the Ministry of Foreign Affairs

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

There is no list of concerned authorities in English and preparation of such list is time consuming for this center, but for obtaining information about construction companies you can contact:

1. Syndicate of architects and Consulting Engineers,
No.155,
Khaled Islambuli (Park) Avenue,
Tehran Iran (Telephone:683686)
2. Syndicate of Construction Companies
No. 88
Saba Avenue,
Tehran - Iran

Vc. Further reading about building regulations etc.

The Technical Bureau of Ministry of Planning and Budgeting has published a Collection of Circulars and Codes of practice about prices, Consulting regulations, Contact circumstances, Surveying regulations etc... in Farsi language. Bibliographic information: Publication No.8, of the Technical

Bureau of Ministry of Planning and Budgeting
Questionnaire completed by:

Mrs. F. Roshanbin,
Head, Information & Documentation Department,
Building & Housing Research Center

Date:

"APPENDIX"

Codes of Practice under preparation and publication by Building & Housing Research Center:

- Code of practice for foundation engineering of conventional residential and administrative buildings
- Code of practice for earthquake resistant structures: Bridges
- Code of practice for structural design of war shelters and other safe structures
- Review of ISIRI 519 standard: Loading standards in Buildings
- Code of practice for architectural design of the built environment for the handicapped
- Code of practice for environmental and thermal control of buildings
- Code of practice and manual for climatic design of residential buildings
- Code of practice for sound insulation of Buildings

QUESTIONNAIRE

Building regulations and standards in IRAQ (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws			O
Codes/regulations			O
Standards			O

Specification
of building
materials

M

- 1) Applies throughout the entire country or federation
2) Applies only in states or provinces subject to their decision
3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

 Yes NoIc. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

Id. Brief description of the system of building regulations and related documents.

The national regulations issued by the Ministry of Planning are for tender documentation.

For certain civil engineering and special construction works such as roads, bridges etc regulations are issued by various government agencies.

Testing constructional materials govern by law issued by Ministry of Planning/Central Organization for Standardization and quality control as far as it is available. If not other specifications, ISO, BSS, ASTM, ASHTO, DIN can be carried in according to contract specification or consultant/designer advice.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: Ministry of Planning Central Organization Address: for Standardization and Quality Control (COSQC) P.O. Box 13032 Baghdad IRAQ	Organization: Ministry of Construction State Cooperation of Road and Bridges (SCRB) Address: P.O. Box 917 Karadat Meriam Baghdad IRAQ
Phone: Fax: Telex: 213505 COSQC IK	Phone: Fax: Telex: 2673 SCRBIK
Main type of regulations: Specification of constructional materials, codes, patents	Main type of regulations: Specification of Roads
(3)	(4)
Organization: Ministry of Housing & Construction Address: National Center for Construction Labs P.O. Box 20061 Baghdad IRAQ	Organization: Building Research Centre Scientific Research Council Address: P.O. Box 2136 Baghdad IRAQ
Phone: Fax: Telex: 212704 NCCL IK	Phone: Fax: Telex: 2187 IK
Main type of regulations: Testing according to Iraqi specifications (COSQC) and according to consultant and designer in accordance with ISO, BSS, ASTM, AASHTO, DIN etc.	Main type of regulations: Codes, Journals, Research and Patents

Iib. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Building Research Centre	Organization:
Address: Scientific Research Council P.O. Box 2136	Address:
Phone:	Phone:
Fax:	Fax:
Telex: 2187 IK	Telex:
Main subjects:	Main subjects:
Type of service: Journals, Researches, Codes and Patents	Type of service:

Iic. Organizations from which building regulations are available.

(1)	(2)
Organization: Ministry of Planning Central Organization for Standardization and Quality Control P.O. Box 13032 Baghdad IRAQ	Organization:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex: 213505 COSQC IK	Telex:
Main type of documents: Government prints govern by law	Main type of documents:
(3)	(4)
Organization:	Organization:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents:	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Iraqi Building Code Requirements for Reinforced Concrete Code 1/1987
Building Research Centre
Scientific Research Council
Contains reference to designer and limitation to design

IIIb. Databases.

(1) None	(2)
Database name:	Database name:
Producer:	Producer:
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)
Periodical Journal issued by Building Research Centre

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

Certain regulations are issued by various government agencies.
Locally used.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)**IVc. Concrete:****IVd. Steel:****IVe. Wood:****IVf. Foundations:****IVg. Drainage:****IVh. Fire:****IVi. Electrical installations in buildings:****IVj. Water and sewerage:****IVk. Heating and ventilation:****V BIBLIOGRAPHY**

(Suggestions for literature of interest)

Va. General information on the country.**Vb. Introduction to the construction sector.**

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

Vc. Further reading about building regulations etc.**Questionnaire completed by:**

Munthir Al-Baker
NCCL-National Center for
Construction Labs
P.O. Box 20061
Baghdad
IRAQ

Date: 1989-04-10

QUESTIONNAIRE

Building regulations and standards in Israel (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M		M
Standards	M&O		
Model Specifications	O		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No
 Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects. ISRAELI STANDARDS (IS)

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SPC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I a. Short description of the system of building regulations and related documents.

- a. Law of Planning and Building defines planning procedures on a national, regional and local level (M).
- b. National regulations (based on the above law) define various building norms, procedures and documents (M).
- c. Local regulations as above, on a local level (M).
- d. Standards - for performance of building components and their design - some are mandatory and others optional.
- e. Model specifications (General Specifications for Building Works) - are optional but used almost universally.
- f. Building regulations of the Ministry of Construction and Housing apply to government sponsored building projects.
- g. Agreement Permits.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| <p>(1) Organization:
 Ministry of Construction and Housing
 Address:
 New Kirya, Clermont Gannot St.
 Shaich Jarach, P.O.Box 18110
 Jerusalem 91180</p> <p>Phone:
 02-277211
 Telex:</p> <p>Main type of regulations:
 Building regulations
 Model specifications</p> | <p>(2) Organization:
 Ministry of the Interior</p> <p>Address:
 2 Kaplan St.,
 Hakirya
 Jerusalem 91061</p> <p>Phone:
 02-660151
 Telex:</p> <p>Main type of regulations:
 Law of Planning & Building
 National Regulations</p> |
| <p>(3) Organization:
 Standards Institution of Israel</p> <p>Address:
 42 University St.
 Tel Aviv 69977</p> <p>Phone:
 03-422891
 Telex:
 35508 SIIT IL
 Main type of regulations:</p> | <p>(4) Organization:
 Building Research Station
 Technion - Israel Inst. of Techn.</p> <p>Address:
 Technion City
 Haifa 32000</p> <p>Phone:
 04-292242/3
 Telex:
 46406 TECON IL
 Main type of Regulations:</p> |

II b. Bodies providing information about building regulations and standards.

- | | |
|--|---|
| <p>(1) <u>Organization:</u>
Standards Institute of Israel</p> <p><u>Adress:</u>
42 University St.
Tel Aviv 69977</p> <p><u>Phone:</u>
03-422891</p> <p><u>Telex:</u>
35508 SIIT IL</p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u>
Preparation and distribution
of standards</p> | <p>(2) <u>Organization:</u>
Building Centre of Israel</p> <p><u>Adress:</u>
40 University St.
Tel Aviv 61390</p> <p><u>Phone:</u>
03-425222-9</p> <p><u>Telex:</u></p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u>
Distribution of various
building documents</p> |
|--|---|

II c. Organizations where building regulations can be bought or aquired.

- | | |
|--|--|
| <p>(1) <u>Organization:</u>
Standards Institute of Israel</p> <p><u>Adress:</u>
as above</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u>
Israeli Standards</p> | <p>(2) <u>Organization:</u>
Sadan Publishing House Ltd.</p> <p><u>Adress:</u>
P.O.B. 16096
Tel Aviv 61160</p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u>
Planning and Construction Laws</p> |
| <p>(3) <u>Organization:</u>
Ministry of Defence
Publishing Dept.</p> <p><u>Adress:</u>
David Eleazar, 25
Hakirya, Tel Aviv 67659</p> <p><u>Phone:</u>
03-205534</p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u>
Building Regulations
Model Specifications</p> | <p>(4) <u>Organization:</u>
Building Research Station (BRS)</p> <p><u>Adress:</u>
Technion
as above</p> <p><u>Phone:</u>
04-292242/3</p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u>
Agreement permits</p> |

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

Standards Institute of Israel. Israeli Standards Catalogue, Nov. 1985, The Institution.

III b. Databases

- | | |
|---|---|
| <p>(1) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> <p>Not available.</p> | <p>(2) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> |
|---|---|

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

"MATI", Journal of the Standards Institute of Israel, Standards Institute of Israel.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

- IV a. General: (E.g. important/laws or main code documents)
 1. Planning and Building Law, 1965.
 2. Modular Coordination, 1972.
 3. Law of Engineers and Architects, 1958.
 4. Law of Registration for Civil Engineering Contractors, 1969.

- IV b. Loading: (Including wind, snow and earthquake loads)
 - IS.412(1975): Characteristic loads in buildings: permanent and laws.
 - IS.413(1975/80): Characteristic loads in buildings: earthquakes.
 - IS.414(1982): Characteristic loads in buildings: wind load.

- IV c. Concrete:
 - IS.466(1980/83): Concrete code (3 parts).

- IV d. Steel:
 - IS.580(1985): Steel for the reinforcement of concrete.
 - 739(1981/84)
 - 893(1980/81)

- IV e. Wood:

- IV f. Foundations:
 - IS.940(1979): Foundations for buildings.

- IV g. Drainage:
 - Sanitary regulations, Ministry of Interior, 1970/1980.

- IV h. Fire:
 - IS.931(1975): Fire resistance of building elements: definitions and tests.
 - IS.921(1985): Classification of buildings and the use of building materials according to their behaviour during fire.

- IV i. Electrical installations in buildings:
 - Law of Electricity, 1954 (Ministry of Interior).

IV j. Water and sewerage:

See IVg above.

IV k. Ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest).

- V a. General information on the country:
 - State of Israel, Ministry of Foreign Affairs, Facts about Israel, 1985.

- V b. Introduction to the construction sector:
 - (E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).
 - Central Bureau of Statistics, Construction in Israel (1981-1983), Special series No. 751, Jerusalem, 1985 (in Hebrew).
 - State of Israel, Ministry of Construction & Housing, programming department, Population and building in Israel(1948-1973), Jerusalem, September 1975 (partially in English).

- V c. Further reading about building regulations etc:
 - Preisler, Zvi and Cohn, Avi Herluf, "Building Laws", Jerusalem, Ketuwim Publ., 1984 (& appendices)(in Hebrew).
 - Goldberg, N. Jr., "Safety at work: laws, regulations, orders, precedents", Jerusalem, Sadan, 1986.

Questionary completed by:

Prof. A. Warszawski: Head, Building Research Station
Technion City
Haifa 32000
Israel

Date:

QUESTIONNAIRE

Building regulations and standards in Italy (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	M	
Codes/regulations	M	M	
Standards	O	O	

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

- State Laws or Ministerial Decrees without amendments
- Local Laws without amendments
- The city plan is studied by the local government and then becomes a local law
- UNI (standardization body) regulations and standards sometimes allow the definition of agreements.

Ic. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

As regards particular applications, non-compulsive standards (ASTM; ISO; DIN) are employed.

Id. Brief description of the system of building regulations and related documents.

The standard-making system is rather complex: there are State Laws; Local Laws; Ministerial decrees (by signature of the ministers of the several ministeries), local regulations; city plans (which have significance in the interested municipality, but are juridically issued by the local government); UNI standards, CEI standards, CNR standards. These last 20 years the Laws of the State have been oriented towards the achievement of an outline law for a specific subject (e.g. building statics) referring the application standards to a Ministerial Decree (that can be renewed, when necessary by a simple act of the Ministry of Public Works). Laws, decrees and other standards of the State are published on the "Gazzetta Ufficiale della Repubblica Italiana" (The Italian Official Gazette) while local laws, decrees and standards are published on the "Bollettino" (Bulletin) of the issuing region.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| <p>(1)
 Organization: The State
 Address: The several Ministries are to be consulted, and in particular:
 - Public Works
 - Transports
 - Health
 Phone: - Industry
 Fax: - Labour
 Telex: - Labour
 and the President of the Republic
 Main type of regulations:</p> | <p>(2)
 Organization: The Regions (20)
 Address: The various alderman's offices are to be consulted.
 Phone:
 Fax:
 Telex:
 Main type of regulations:</p> |
| <p>(3)
 Organization: UNI - Italian National Standardization Body
 Address: UNI
 Piazza A. Diaz, 2
 I 20123 MILANO
 Phone: (02) 72001141
 Fax: (02) 8690120
 Telex: 312481 UNI I
 Main type of regulations: building</p> | <p>(4)
 Organization: CEI - Italian Electro-Technical Committee
 Address: CEI
 Viale Monza, 25-D
 I 20126 MILANO
 Phone: (02) 257731
 Fax: (02) 25773222
 Telex: 312207 CEITAL I
 Main type of regulations: electro-technics</p> |

IIb. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: UNI	Organization: Centro Edile (Building Centre)
Address:	Address: Via Rivoltana, 8 I 20090 SEGRATE (MI)
Phone:	Phone: (02) 7530951
Fax:	Fax: (02) 7530057
Telex:	Telex: 320412 CEDILE I
Main subjects: UNI standards	Main subjects: Many news
Type of service:	Type of service: Production and distribution of data-bases

IIc. Organizations from which building regulations are available.

(1)	(2)
Organization: UNI	Organization: CNR
Address:	Address: Piazza Aldo Moro, 7 00100 ROMA (RM)
Phone:	Phone: (06) 49931
Fax:	Fax: (06) 4957241
Telex:	Telex: 610072 - 610076 CNR RM I
Main type of documents: UNI Standards	Main type of documents: CNR standards and other standards
(3)	(4)
Organization: The various Ministries and Regions	Organization: CEI
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents: Laws, Decrees	Main type of documents: CEI Standards (electric installations)

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

- UNI: it has a list of its own standards
- Centro Edile (Building Centre): it has explanatory brochures
- ICITE: it has an address book of manufacturers, builders, designers, technical schools, Univesities, publishers of sectoral headings.

IIIb. Databases.

(1)	(2)
Database name: Edilfile	Database name:
Producer: Centro Edile (Building Centre)	Producer:
Main contents: Standardized description of building works - Laws-Standards-List of market sectors of manufactures and products - prices that have been pointed out.	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)
"Gazzetta Ufficiale della Repubblica Italiana"
Bollettino (for each Region)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- The "Piano Regolatore Generale" (General City Plan) can be taken into account; it is issued by each single municipality and it provides rules for town-planning and building.

- Law n. 64 2/02/1974 and relative application decrees.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

- Ministerial decree 12 February 1982 "Aggiornamento delle norme tecniche relative ai 'criteri generali per la verifica di sicurezza delle costruzioni e dei carichi e sovraccarichi'" (Updating of the technical standards concerning the 'General criteria for the safety control of buildings and of loads and overloads'").

IVc. Concrete:

Law n. 1086 5/11/1971 and following application decree (still in force)

IVd. Steel:IVe. Wood:

No

IVf. Foundations:

- Ministerial Decree 11/03/1988

IVg. Drainage:IVh. Fire:

- M.D. 30 November 1983
- M.D. 16 May 1987 N. 246

IVi. Electrical installations in buildings:

- CEI Standards (CEI standards are legally recognized by the State)

IVj. Water and sewerage:

- Law 31 D 10/05/76 and consequential deliberation 4/02/77 Gazzetta Ufficiale N. 48 of 21/02/77 of the Committee of Ministers for the prevention of pollution in the waters.
- M.D. 12/12/85

IVk. Heating and ventilation:

- Law 373 of 30/04/76 "Norme per il contenimento del consumo energetico per usi termici negli edifici" (Standards for the restriction of energy consumption for thermal purposes in buildings) and relative application decrees.

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

CRESME
Via Sebenico, 2
00198 ROMA (RM)
Tel: 06-865952
statistical data

Vc. Further reading about building regulations etc.Questionnaire completed by:

Norberto Tubi
ICITE Via Lombardia, 49
20098 S. GIULIANO M.SE (MI)
ITALIA

Date: 29/05/89

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in JAPAN (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		M
Codes/regulations	M		M
Standards			

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM...)

Comments:

Id. Short description of the system of building regulations and related documents.

National regulations are provided in Building Standard Law, Cabinet Orders and Ministry Orders. Each prefecture and municipality can provide local regulations, if it is reasonable in conformity with the local conditions. Building Standard Law and local regulations at the site of the building must be obeyed.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization: Ministry of Construction(2) Organization:
Housing Bureau, Building Guidance Division

Address: 2-1-3, Kasumigaseki, Chiyoda-ku Tokyo, 100 JAPAN Address:

Phone: 03-580-4311 Phone:

Fax: 03-580-3058 Fax:

Telex: Telex:

Main type of regulations: Building Standard Law Main type of regulations:

(3) Organization: (4) Organization:

Address: Address:

Phone: Phone:

Fax: Fax:

Telex: Telex:

Main type of regulations: Main type of regulations:

Iib. Bodies providing information on building regulations and standards.

- | | |
|---|--|
| <p>(1) Organization: Ministry of Construction
Housing Bureau, Guidance Division
Address: 2-1-3 Kasumigaseki, Chiyoda-ku
Tokyo 100 JAPAN</p> <p>Phone: 03-580-4311</p> <p>Fax: 03-580-3058</p> <p>Telex:</p> <p>Main subjects: All subjects</p> <p>Type of service:</p> | <p>(2) Organization:
The Building Center of Japan
Address: 3-2-2 Toranomon
Minato-ku,
Tokyo 105
JAPAN</p> <p>Phone: 03-434-7155</p> <p>Fax: 03-431-3301
03-431-3302</p> <p>Telex:
J34562 BCJAPAN</p> <p>Main subjects: All subjects</p> <p>Type of service:
Fee-based question-answer
service</p> |
|---|--|

Iic. Organizations where building regulations can be bought or acquired.

- | | |
|--|--|
| <p>(1) Organization:
The Building Center of Japan
Address:
3-2-2 Toranomon, Minato-ku
Tokyo 105, JAPAN</p> <p>Phone: 03-434-7155</p> <p>Fax: 03-431-3301
03-431-3302</p> <p>Telex:
J34562 BCJAPAN</p> <p>Main type of documents:
Introduction to Building
Standard Law (in English)
Building Standard Law (in English)</p> | <p>(2) Organization: -
book shops all over Japan
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |
| <p>(3) Organization:</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> | <p>(4) Organization:</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.**IIIa. Published or unpublished lists or catalogues.**

(Please state for each document: Title, year of issue, publisher and type of contents)

- 1) "Introduction to Building standard Law"(in English)
Published by the Building Center of Japan 1986.
Contains Introduction of a summary of regulations of Building Standard Law.
- 2) "Building Standard Law"(in English)
by the Building Center of Japan 1986.
- 3) Several Compiled building codes, in Japanese, are published every years.
- 4) Many guide books are published in Japanese.

IIIb. Databases.

- | | |
|---|---|
| <p>(1) Database name:</p> <p>Producer:</p> <p>Main contents:</p> | <p>(2) Database name:</p> <p>Producer:</p> <p>Main contents:</p> |
|---|---|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

- 1) "Outline of the approval & certification system under Building Standard Law" (in English)
- 2) "Introduction to the technical appraisal"(in English)
Both documents are published by the Building Center of Japan in 1986.

IV MOST IMPORTANT BUILDING REGULATIONS
(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Building Standard Law (BSL)
- 2) Building Standard Law, Cabinet Order (BSLCO)

IVb. Loading: (Including wind, snow and earthquake loads)

BSLCO
Chapter III Section 8

IVc. Concrete:

BSLCO
Chapter III Section 6

IVd. Steel:

BSLCO
Chapter III Section 5

IVe. Wood:

BSLCO
Chapter III Section 3

IVf. Foundations:

BSLCO
Chapter III Section 2

IVg. Drainage:

IVh. Fire:
BSL, Article 22 ~ 27, 35 ~ 35-3, 61 ~ 67-2
BSLCO, Chapter IV, V, V-2

IVi. Electrical installations in buildings:

BSL, Article 32
Electricity Utilities Industry Law

IVj. Water and sewerage:

BSLCO
Chapter II Section 4
Chapter V-3 Section 1

IVk. Ventilation:

BSLCO
Chapter II Section 1-2
Chapter V-3 Section 1

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Japan 1986, An International Comparison (in English)
Publisher: Keizai Koho Center, Japan Institute for
Social and Economic Affairs, 6-1, Otemachi, 1-chome,
Chiyoda-ku, Tokyo 100 JAPAN

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations
and companies; descriptions; statistics)

Many documents in English
Publisher: Printing Bureau, Ministry of Finance
2-2-4 Toranomon Minato-ku, Tokyo
Phone : 03-587-4283-9

Vc. Further reading about building regulations etc.

Questionnaire completed by:

Building Research Institute
Ministry of Construction
Government of Japan
1 Tatchara, Tsukuba-shi
Ibaraki-ken 305 JAPAN

Date:

April 25, 1989

SUPPLEMENT COMMENTS

The building regulations in Japan consist of the Building Standard Law, and the Cabinet Orders and Ministry Orders provided under the Law, and also the local ordinances. The Law mainly provides for basic conditions of the building performance standards, and the zoning codes while the Cabinet Order (Enforcement Order) decides their practical requirements, the Ministry Order (Enforcement Regulations) details the execution procedures, and the local ordinances (local regulations) provided by local municipalities add complementary requirements (if reasonable) according to the local political needs but within the Law.

The purpose of the Building Standard Law is to safeguard the life, health, and properties of the people, by providing minimum standards concerning the site, structure, equipment, and use of buildings, thereby contributing to the furtherance of the public welfare. (The first article of the Law)

The Law has the following features:

- (1) The Law, as a rule, applies to all buildings in Japan, with additional requirements or relaxed restrictions applicable in limited cases when prescribed by local ordinances.
- (2) It is a comprehensive law which integrates building codes (provisions for establishing minimum standards for ensuring the safety of individual buildings in terms of structure, fire prevention, sanitation, etc.) and zoning codes (provisions for establishing standards for ensuring the safety in urban areas and maintaining their convenience and environments), in addition to procedural and other requirements for ensuring the compliance with those codes.
- (3) It applies to buildings continuously from their construction to demolition.

The Law, under its provisions for enforcement, is sometimes supplemented by technical standards (Ministry of Construction Notifications).

The information system of the Japanese Laws is limited for the foreigners who can not read in Japanese. However many compiled codes and guides to the Law with indexes in Japanese are published by commercial editors and soled by ordinal book shops all over Japan.

The database of the Law is not yet available. The knowledge base of the Law was developed but practically inefficient, because it is a character-input and character-output system.

by
Dr. MATSUMOTO Kouhei
B R I

QUESTIONNAIRE

Building regulations and standards in KENYA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations			M
Standards	M		

- 1) Applies throughout the entire country or federation
- 2) Applies only in states or provinces subject to their decision
- 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

MAINLY BRITISH STANDARDS ARE IN USE WHERE NATIONAL STANDARDS HAVE NOT BEEN PUBLISHED.

Id. Brief description of the system of building regulations and related documents.

The National Building Code was issued by the Ministry of Local Government under whose umbrella the Local municipalities falls: The Code was implemented as part of the adoptive by-laws of the municipalities and County Councils.

The Building Code is being updated and the new regulations will be issued soon.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Iia. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|--|
| (1)
Organization: KENYA BUREAU OF STANDARDS
Address: P.O. Box 54974 NAIROBI, KENYA
Phone: NAIROBI 502210
Fax: -
Telex: 25252 VIWANGO KE
Main type of regulations: STANDARDS AND CODES OF PRACTICE | (2)
Organization: MINISTRY OF PUBLIC WORKS
Address: P.O. Box 30260 NAIROBI, KENYA
Phone: NAIROBI 721022
Fax: -
Telex: -
Main type of regulations: DESIGN MANUALS |
| (3)
Organization: MINISTRY OF LOCAL GOVERNMENT
Address: P.O. Box 30004 NAIROBI, KENYA
Phone: NAIROBI 28411
Fax: -
Telex: -
Main type of regulations: BY-LAWS | (4)
Organization: -
Address: -
Phone: -
Fax: -
Telex: -
Main type of regulations: - |

Ib. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: KENYA BUREAU STANDARDS	Organization:
Address: P.O. Box 54974 NAIROBI KENYA	Address:
Phone: NAIROBI 502210	Phone:
Fax: -	Fax:
Telex: 25252 VIWANGO KE	Telex:
Main subjects: A. J. SUBJECTS	Main subjects:
Type of service: FREE QUESTION ANSWER SERVICES STANDARDS SOLD	Type of service:

Ic. Organizations from which building regulations are available.

(1)	(2)
Organization: KENYA BUREAU OF STANDARDS	Organization: MINISTRY OF LOCAL GOVERNMENT
Address: P.O. Box 54974 NAIROBI KENYA	Address: P.O. Box 30004 NAIROBI.
Phone: NAIROBI 502210	Phone: NAIROBI 28411
Fax: -	Fax: -
Telex: 25252	Telex: -
Main type of documents: KENYA STANDARDS	Main type of documents: BUILDING BY-LAWS
(3)	(4)
Organization:	Organization:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents:	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

IIIb. Databases.

(1)	(2)
Database name:	Database name:
Producer:	Producer:
Main contents:	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

1) **KENYA BUILDING CODE 1970**

Gives general regulations to be used in planning and design and design in towns and other areas in the country.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

KS02-755 - Gives the live loads to be used in various types of structures.

IVc. Concrete:

KS02-594, KS02-595 - Gives requirements for fresh concrete and testing of fresh concrete.

IVd. Steel:

KS02-22, KS02-572, KS02-573, KS02-574 These standards specifies steel for general construction structural use and reinforcement of concrete.

IVe. Wood:

KS02-17, - specifies the sawn timber

KS02-771 - specifies grading of softwood timber grade for structural use.

IVf. Foundations:

-

IVg. Drainage:

-

IVh. Fire:

-

IVi. Electrical installations in buildings:

IVj. Water and sewerage:

IVk. Heating and ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

Vc. Further reading about building regulations etc.

Questionnaire completed by:

S.K. KIARIE *Kiarie S.K.*
HEAD OF CIVIL ENGINEERING DEPARTMENT
KENYA BUREAU OF STANDARDS

Date: 1989-07-07

CIB W57/1986-05-14

QUESTIONNAIRE

Building regulations and standards in Korea (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M		
Standards	O		

(Please mark in appropriate box: M for mandatory, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

 Yes, in general Yes, sometimes No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SBC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I d. Short description of the system of building regulations and related documents.

The current system of Korean building regulations is considered an integration of building code and zoning code.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.(1) Organization: The Ministry of Construction (2) Organization:

Address: Architecture Division, Housing Bureau, The Ministry of Construction, Jong hap Chungsa, Chungang Dong, Kwachon Kyunggi Do, The Republic of Korea

Phone:
503-7365

Telex:

Main type of regulations:
Korean Building Law

(3) Organization: (4) Organization:Address:Phone:Telex:

Main type of regulations:

Address:Phone:Telex:

Main type of regulations:

Address:Phone:Telex:

Main type of Regulations:

II b. Bodies providing information about building regulations and standards.

- | | |
|---|---|
| <p>(1) <u>Organization:</u>
The Ministry of Construction
<u>Address:</u>
Architecture Division, Housing Bureau,
Ministry of Construction, Jong hap Chungsa,
Chungang Dong, Kwachon
Kyunggi Do, The Republic of Korea
<u>Phone:</u>
503-7365
<u>Telex:</u>

<u>Main subjects:</u>

<u>Type of service:</u></p> | <p>(2) <u>Organization:</u>
KICT
(Korea Institute of Construction
<u>Address:</u> Technology)
377 Mansu-Dong, Nam-Ku
Inchon, 160-01
The Republic of Korea
<u>Phone:</u> (032) 422-7052, 0667
<u>Telex:</u> KICTEX K28878

<u>Main subjects:</u>

<u>Type of service:</u>
Copy</p> |
|---|---|

II c. Organizations where building regulations can be bought or aquired.

- | | |
|--|---|
| <p>(1) <u>Organization:</u>
Kyo Bo Mun Go, (book store)
<u>Address:</u>
#1, Jonro 1 Ka, Jongro-Ku
Seoul, Korea

<u>Phone:</u>
(02) 730-7891
<u>Telex:</u>
KYOBO K25081
<u>Main type of documents:</u>
book</p> | <p>(2) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> |
| <p>(3) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> | <p>(4) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> |

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

The Transition of Korean Building Law
(Written in Korean)

III b. Databases

- | | |
|---|---|
| <p>(1) <u>Database name:</u>

<u>Producer:</u>

<u>Main contents:</u></p> | <p>(2) <u>Database name:</u>

<u>Producer:</u>

<u>Main contents:</u></p> |
|---|---|

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

The Journal of Korea Institute of Registered Architects
(written in Korean)

Address : refer to the attached

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

Building laws contain a standards on site, structure and equipment and prescribe its use.

IV b. Loading: (Including wind, snow and earthquake loads)

Regulations on structure and standards in buildings
(1982. 11. 25 Enforcement Regulations by the Ministry of Construction)

IV c. Concrete:

Same as above

IV d. Steel:

Same as above

IV e. Wood:

Same as above

IV f. Foundations:

Same as above

IV g. Drainage:

Building Law Chapter III

IV h. Fire:

Same as above

IV i. Electrical installations in buildings:

Same as above

IV j. Water and sewerage:

Same as above

IV k. Ventilation:

Same as above

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

Please refer to the attached

V b. Introduction to the construction sector:

(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

Please refer to the attached

V c. Further reading about building regulations etc:

Questionary completed by:

Kang-Woo, Lee
Planning and Information Division
KICT

Date: 1986. 8. 5

Construction Sectors in Korea

1. KICT (Korea Institute of Construction Technology)
Address : 377, Mansu-Dong, Nam-Ku, Inchon, Korea
Telephone : (032) 422-7052, 0667
TELEX NO : KICTEX K28878

2. Korea Institute of Registered Architects
1603-55 Seocho-Dong, Kangnam-Gu, Seoul 135 Korea
Tel. : 02-581-5711 - 4

3. HOUSING RESEARCH INSTITUTE
KOREA NATIONAL HOUSING CORP.
#254, Nonhyun-Dong, Kangnam-Ku, Seoul, Korea
Tel. : 02-546-3004

4. Architectural Institute of Korea
635-4, Yeoksam-Dong, Kangnam-Ku, Seoul, 135, Korea
Tel. : 02-553-4715 - 6

QUESTIONNAIRE

Building regulations and standards in MALAWI (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	O		

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

 Yes NoIc. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

Standards used predominantly include British Standards BS, Kenya Standards KEBS, Zimbabwe Standards SAZS, and South African Standards SABS.

Id. Brief description of the system of building regulations and related documents.

Regulations for building construction has in the past been the responsibility of various governmental departments and agencies. Until recently (1987) there has never been a document that could be used at National Level. Hence Draft Building Regulations are in the pipeline and are expected to be adopted soon.

The new regulations shall be published and issued by the Government through the Department of Housing and Physical Planning of the Office of the President and Cabinet. For certain civil engineering and special construction works, such as roads, bridges, railroad, earthworks etc, regulations are issued by various government agencies.

Malawi Standards, and also other standards (see 1c), are referred to in the regulations as examples of technical solutions (deemed-to-satisfy). These are optional except for Malawi Standards, that deal with safety, health and economic development.

The new regulations will be supplemented by a companion volume also to be published (separately) once the draft has been approved. The companion volume is aimed at providing simple guidelines for house construction specifically for low income groups.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: Department of Housing and Physical Planning	Organization: Ministry of Works
Address: P. O. Box 30548 Lilongwe 3	Address: Private Bag 316 Lilongwe 3
Phone: + (265) 733677	Phone: + (265) 733188
Fax: + 44389 PRES	Fax: + 44285 WORKS
Telex: + 44389 PRES	Telex: + 44285 WORKS
Main type of regulations: Building Construction	Main type of regulations: Building constructions, roads and bridges
(3)	(4)
Organization: Malawi Bureau of Standards	Organization: Malawi Bureau of Standards
Address: P. O. Box 946 Blantyre	Address: P. O. Box 946 Blantyre
Phone: + (265) 670488	Phone: + (265) 670488
Fax: + 44325 MSM	Fax: + 44325 MSM
Telex: + 44325 MSM	Telex: + 44325 MSM
Main type of regulations: Malawi Standards	Main type of regulations:

Iib. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Malawi Bureau of Standards	Organization:
Address: P. O. Box 946 Blantyre	Address:
Phone: + (265) 670488	Phone:
Fax:	Fax:
Telex: + 44325 MSM	Telex:
Main subjects: All subjects, Standards, sample analysis, consul- tancy.	Main subjects:
Type of service: Fee-based for sample analysis consultancy services.	Type of service:

Iic. Organizations from which building regulations are available.

(1)	(2)
Organization: Department of Housing and Physical Planning	Organization: Government Press
Address: P. O. Box 30548 Lilongwe 3	Address: P. O. Box 37 Zomba
Phone: + (265) 733677	Phone: + (265) 523155
Fax:	Fax:
Telex: + 44389 PRES	Telex:
Main type of documents: Various	Main type of Government Prints, Laws documents:
(3)	(4)
Organization: Malawi Bureau of Standards	Organization:
Address: P. O. Box 946 Blantyre	Address:
Phone: + (265) 670488	Phone:
Fax:	Fax:
Telex: + 44325 MSM	Telex:
Main type of documents: Malawi Standards	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Catalogue of Malawi Standards, published annually by MES,
The Malawi Standards Board

IIIb. Databases.

(1)	(2)
Database name: MBSDIS	Database name:
Producer: MBS	Producer:
Main contents: Standards, technical regulations and related documents	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)IVb. Loading: (Including live loads, wind, snow and earthquake loads)IVc. Concrete:IVd. Steel:IVe. Wood:IVf. Foundations:IVg. Drainage:IVh. Fire:IVi. Electrical installations in buildings:IVj. Water and sewerage:IVk. Heating and ventilation:V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Malawi Yearbook (Various subjects, in English)

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

National Research Council of Malawi

Vc. Further reading about building regulations etc.Questionnaire completed by:C D Malata Chirwa
M B S
Moirs Crescent
P. O. Box 946
Blantyre
MALAWIDate: 1989-05-21

QUESTIONNAIRE

Building regulations and standards in MEXICO (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	M		
Codes/regulations	M		
Standards	M		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SPC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I a. Short description of the system of building regulations and related documents.

Regulations for building construction are given by the Government of the City of Mexico and are adopted by the rest of the country in all cases. Materials and systems are regulated by the Direction of Norms, from the Ministry of Commerce and Industrial Support, of the Federal Government, in Mexico City. For home-buildings and dwellings the INFONAVIT (Institute of the National Fund of Dwellings for the Workers) owns a Department for development and adaptation of Dwellings Norms.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization:

Departamento del Distrito
Address: Federal

Plaza de la Constitución
y Pino Suárez
06068, Mexico, MEXICO

Phone:
518 12 92 522 27 27
Telex:

Main type of regulations:

(3) Organization:

INFONAVIT

Address:

Ave. Revolución 1884, Third Floor
01000 México City, MEXICO

Phone:
651 94 00
Telex:

Main type of regulations:

Building codes and norms for dwellings

(2) Organization:

Dirección General de Normas
Secretaría de Comercio y Fomento
Address: Industrial

Puente de Tecamachalco,
Lomas de Tecamachalco,
Sección Fuentes
53950 Naucálpán de Juárez,
Edo. de México, MEXICO

Phone:
540 20 47 5 89 98 77
Telex:

Main type of regulations:

(4) Organization:

Address:

Phone:

Telex:

Main type of Regulations:

 I I b. Bodies providing information about building regulations and standards.

(1)	<u>Organization:</u>	(2)	<u>Organization:</u>
	<u>Address:</u>		<u>Address:</u>
	<u>Phone:</u>		<u>Phone:</u>
	<u>Telex:</u>		<u>Telex:</u>
	<u>Main subjects:</u>		<u>Main subjects:</u>
	<u>Type of service:</u>		<u>Type of service:</u>

 I I c. Organizations where building regulations can be bought or aquired.

(1)	<u>Organization:</u>	(2)	<u>Organization:</u>
	Departamento del Distrito Federal		
	<u>Address:</u>		<u>Address:</u>
	Plaza de la Constitución y Pino Suárez 06068 Mexico City, MEXICO		
	<u>Phone:</u>		<u>Phone:</u>
	518 12 92 522 27 27		
	<u>Telex:</u>		<u>Telex:</u>
	<u>Main type of documents:</u>		<u>Main type of documents:</u>
(3)	<u>Organization:</u>	(4)	<u>Organization:</u>
	<u>Address:</u>		<u>Address:</u>
	<u>Phone:</u>		<u>Phone:</u>
	<u>Telex:</u>		<u>Telex:</u>
	<u>Main type of documents:</u>		<u>Main type of documents:</u>

 I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

 I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

 I I I b. Databases

(1)	<u>Database name:</u>	(2)	<u>Database name:</u>
	<u>Producer:</u>		<u>Producer:</u>
	<u>Main contents:</u>		<u>Main contents:</u>

 I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

- IV a. General: (E.g. important/laws or main code documents)
REGLAMENTO DE CONSTRUCCIONES PARA EL DISTRITO FEDERAL Y DISPOSICIONES COMPLEMENTARIAS,
Editorial Porrúa, S.A.
Ave. República Argentina 15,
México, D.F., MEXICO

- IV b. Loading: (Including wind, snow and earthquake loads)
Reglamento de Construcciones para el Distrito Federal,
Chapters XXXV and XXXVI

- IV c. Concrete:
Reglamento de Construcciones para el Distrito Federal,
Chapter LII

- IV d. Steel:
Reglamento de Construcciones para el Distrito Federal,
Chapter LIII

- IV e. Wood:
Reglamento de Construcciones para el Distrito Federal,
Chapter L

- IV f. Foundations:
Reglamento de Construcciones para el Distrito Federal,
Chapters XLVI and XXXIX

- IV g. Drainage:
Reglamento de Ingeniería Sanitaria relativo a Edificios,
Departamento del Distrito Federal

- IV h. Fire:
Reglamento de Construcciones para el Distrito Federal,
Chapter XIV

- IV i. Electrical installations in buildings:
Reglamento de Construcciones para el Distrito Federal,
Chapter XVI

- IV j. Water and sewerage:
Reglamento de Construcciones para el Distrito Federal,
Chapter XV

- IV k. Ventilation:
Reglamento de Ingeniería Sanitaria, Departamento del
Distrito Federal.

V BIBLIOGRAPHY

(Suggestions for literature of interest).

- V a. General information on the country:

- V b. Introduction to the construction sector:
(E.g. Lists of addresses to authorities, organizations and
companies; Descriptions, statistics).

- V c. Further reading about building regulations etc:

Questionary completed by:

ARQ. SERGIO ALVAREZ DR. OTTO FRITZ
INFONAVIT, Ave. Revolución 1884, Third Floor, 01000 México City, MEXICO

Date: June 23th, 1986

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in the Netherlands (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws			
Codes/regulations	see I d		
Standards	"M" <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> (future)		O <input checked="" type="checkbox"/> (present)

- 1) Applies in the entire country or federation
2) Applies only in e.g. states or provinces after their decision
3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

see I d

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

* present situation: reference in the model building regulations (building by-law) to certain standards as deemed to satisfy

* future situation: When the building decree is in force (1991), standards or parts of standards mentioned in the building decree are mandatory in such a way, that if a building is designed conform these standards, burgomaster and councilmen cannot refuse a building permit for that design. Other solutions, which are not conform the standards, are also possible

Id. Short description of the system of building regulations and related documents.

The most important law on national level concerning all buildings is the Housing Act. The present Housing Act demands of the municipalities to have a Building By-law. The Building By-laws follow in general (amendments are possible) the Model Building Regulations issued by a private organisation the Association of Dutch Municipalities (Vereniging van Nederlandse Gemeenten). In the Model Building Regulations is a reference to certain standards (like e.g. the standards on structural safety) as "deemed to satisfy". Extensive progress has been made in revising the Housing Act and replacing the technical contents of the building by-laws by the Building Decree issued by the central government. The Building Decree shall be uniform for all municipalities. Also regulations, issued by the Ministry of Social Affairs, exist on offices, factories and workshops (fire escapes, lighting, ventilation etc.) These requirements will also be incorporated in the Building Decree.

II. INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Ia. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization: (VNG) De Vereniging van Nederlandse Gemeenten address: (The Association of Dutch Municipalities) address: Nassaulaan 12 2514 JS DEN HAAG Phone: 31.70 62 47 21 Fax: Telex: Main type of regulations: Model Building Regulations as a model for building by-laws of the municipalities	(2) Organization: In the future Ministry of Housing, Physical planning and environment Directorate General of Housing address: Boerhaavelaan 5 2713 HA Zoetermeer Phone: 079-279111 Fax: 079-516431 Telex: Main type of regulations: The Building Decree
(3) Organization: Nederlands Normalisatie Instituut (NNI) Address: P.O. box 5059 2600 CB DELFT Phone: 31.15 61 10 61 Fax: 015.69 01 90 Telex: 38144 nni nl Main type of regulations: Standards and Codes of practice	(4) Organization: Ministry of Social affairs and employment Address: Labour Inspection Boerhaavelaan 3 2713 HA ZOETERMEER Phone: 31.79 51 16 11 Fax: 079. 51 64 31 Telex: 31729 DGVH NL Main type of regulations: Execution of the Law on the labour circumstances (containing certain regulations for factories, workshops and schools

Iib. Bodies providing information on building regulations and standards.

- | | |
|---|--|
| <p>(1) Organization:
VNG
Address:
See II a (1)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:
Model Building Regulations</p> <p>Type of service:
information</p> | <p>(2) Organization:
NNI
Address:
See II a (3)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:
Standards codes of practice</p> <p>Type of service:
information</p> |
|---|--|

Iic. Organizations where building regulations can be bought or aquired.

- | | |
|--|---|
| <p>(1) Organization:
VNG
Address:
See II a (1)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Model Building Regulations
(Model Bouwverordening)</p> | <p>(2) Organization:
NNI
Address:
See II a (3)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Standards and codes of practice</p> |
| <p>(3) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> | <p>(4) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

- IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)
- Overzicht van normen voor de bouwwereld
(synopsis of standards for the building industry)
- Publisher, Nederlands Normalisatie Instituut
Contains a synopsis of all standards important to the building industry

IIIb. Databases.

- | | |
|---|---|
| <p>(1) Database name:
Producer:</p> <p>Main contents:</p> | <p>(2) Database name:
Producer:</p> <p>Main contents:</p> |
|---|---|

- IIIc. Other systems of information.
(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g. important laws or main code documents)

Except the mentioned standards below, the next standards are important in the Netherlands: Technische Grondslagen voor de berekening van bouwconstructies - TGB Aluminium constructies (Regulations for the calculation of building structures - Design of aluminium structures) NEN 3854 Technische grondslagen voor de berekening van bouwconstructies - TGB 1972 - Steen (Regulations for the calculation of building structures of brickwork) NEN 3853

IVb. Loading: (Including wind, snow and earthquake loads)

Technische grondslagen voor de berekening van bouwconstructies - TGB 1972 (Regulations for the calculation of building structures General considerations and Loading) NEN 3850

IVc. Concrete:

Voorschriften beton VB 1974/1984
(Regulations for concrete 1974/1984)

IVd. Steel:

Technische grondslagen voor de berekening van bouwconstructies - TGB 1972 staal (Regulations for the calculation of building structures Design of steel structures) NEN 3851

IVe. Wood:

Technische grondslagen voor de berekening van bouwconstructies - TGB 1972 hout (Regulations for the calculation of building structures Timber structures) NEN 3852

IVf. Foundations:

The model building regulations (building by-laws) give certain stipulations about foundations
Geotechnical standards are in preparation

IVg. Drainage:

No standards

IVh. Fire: The Model Building regulations refer to the standards NEN 3892 (Fire protection of buildings one-family houses and low-rise apartment building and NEN 3893 (fire protection of buildings high-rise-apartment buildings

IVi. Electrical installations in buildings:

IVj. Water and sewerage: Water-Model Building contain stipulations about the number and place of taps in dwellings. General requirements for drinkingwater installations NEN 1006 and other standards fittings and appliances Sewerage The Model Building Regulations contain certain stipulations about sewerpipes and syphons and the connection to the public sewersystem. Sewerage inside dwellings Design and construction requirements NEN 3213 and other standards on fittings and materials.

IVk. Ventilation:

Ventilatie van woongebouwen eisen NEN 1987
(Ventilation in dwellings Requirements
Ventilatie van woongebouwen Aarwijzingen voor en voorbeelden van constructieve uitvoering van ventilatie voorzieningen NPR 1088
(Code of practice ventilation in dwelling Indications and examples for constructional performance of ventilation supplies)

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)
Besides the already mentioned names and addresses, the following are important
Bouwcentrum Weena 700 Rotterdam
C.U.R. (Civil technical centre for research and standards) /
Bichnerweg 3 GOUDA
Staalbouwkundig genootschap (Society for steel structures)
Weena 700 ROTTERDAM
Centrum Hout (Centre for research and information on woodstructures)
Lambertuse Hortensiuslaan 76 Naarden
IBBC-TNO

/ The standards on concrete made by CUR are issued by the NNI as NEN standards

Vc. Further reading about building regulations etc.Questionary completed by:

G.W. Straatsma
Ministry of Housing, Physical Planning and Environment
Directorate-General of Housing
Boerhaavelaan 5 2713 HA ZOETERMEER

Date: June 1989

QUESTIONNAIRE

Building regulations and standards in NEW ZEALAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws			
Codes/regulations			O
Standards			O

- 1) Applies throughout the entire country or federation
- 2) Applies only in states or provinces subject to their decision
- 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

The central core of codes are New Zealand in origin. However associated with them are British Standards and Codes of Practice and Australian Standards.

Id. Brief description of the system of building regulations and related documents.

Each municipality has the right to control building construction by writing their own by-laws. In practice most (96 %) adopt the model Bylaw produced by Standards Association of New Zealand. In addition various government departments have regulations that affect certain aspects of, usually, specialised buildings.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Iia. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: Standards Association of New Zealand	Organization: Ministry of Commerce Building and Development Directorate
Address: Private Bag Wellington	Address: P O Box 12,041 Wellington North

Phone: (04) 842108	Phone: (04) 729929
Fax: (04) 843938	Fax: (04) 712658
Telex: NZ 3850	Telex: NZ 3844
Main type of regulations: NZS 1900 Model Building Bylaws	Main type of regulations: Standard Design of Public Building PW81/10/1

(3)	(4)
Organization:	Organization:
Address:	Address:

Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of regulations:	Main type of regulations:

Iib. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Standards Association of New Zealand Private Bag Wellington	Organization: Building Research Association of New Zealand Private Bag Porirua
Address:	Address:
Phone: (04) 842108	Phone: (04) 357600
Fax: (04) 843938	Fax: (04) 356070
Telex: NZ 3850	Telex:
Main subjects: NZ Standards	Main subjects:
Type of service:	Type of service:

Iic. Organizations from which building regulations are available.

(1)	(2)
Organization: See Iib (1)	Organization: NZ Government Bookshops
Address:	Address: All major cities
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents:	Main type of documents: Government Acts, regulations etc.
(3)	(4)
Organization:	Organization:
Address:	Address:
Phone:	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents:	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- I. CRP 82-22 Building Controls in NZ. Legislative sources and Control Agencies.
CRP 82-25 Building Controls in NZ. Tabulation Acts and Regulations.
CRP 83-26 Building Controls in NZ. Guide to Compliance and Facility Requirements.
H. Tippett et Al. Victoria University. School of Architecture Wellington.
2. MP]0] First, Second and Third Schedules to the NZ Standard Model Building Bylaw (NZ]900). Published yearly.
3. Catalogue. NZ Standards. Published Yearly.
Standards Association of NZ. Private Bag Wellington.

IIIb. Databases.

(1)	Database name:	(2)	Database name:
	Producer:		Producer:
	Main contents:		Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS
 (Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

NZ 1900 Chapters I-II. NZ Standard Model Building Bylaw.
 Numerous Acts (67) and Regulations (64) from 19 Government Departments.

IVb. Loading: (Including wind, snow and earthquake loads)

NZS 4203 General Structural Design and Design Loads for Buildings

IVc. Concrete:

NZS 3101 Design of Concrete Structures
 NZS 3109 Concrete Construction

IVd. Steel:

NZS 3404 Design of Steel Structures

IVe. Wood:

NZS 3602 Specification for Timber and Wood Based Products
 NZS 3603 Timber Design
 NZS 3604 Light Timber Frame Buildings not requiring Specific Design

IVf. Foundations:

NZS 3604 ditto

IVg. Drainage:

Plumbing and Drainage Regulation

IVh. Fire:

NZS 1900 Chapter 5 Fire Resisting Construction and Means of Egress
 NZS 1188 Fire Doors and Fire Windows

IVi. Electrical installations in buildings:

Electrical Wiring Regulations

IVj. Water and sewerage:

Water: NZS 9201 Model General Bylaws Chapter 7 Water Supply.
 Sewerage: Plumbing and Drainage Regulations

IVk. Ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.
 (E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

Vc. Further reading about building regulations etc.

Questionary completed by:

R E Humphreys
 Building Research Association of New Zealand
 Private Bag, Porirua, N.Z.

Date: July 1989

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in NIGERIA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	M	M
Codes/regulations	M	M	M
Standards	M	O	O

- 1) Applies in the entire country or federation
2) Applies only in e.g. states or provinces after their decision
3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

The regulations differ in some States in the Country due to climatic conditions which has influenced the living pattern of the people.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes (B.S.)

No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM...)

Comments:

British B.S. is used sometimes but by far and large the Nigerian standard was set up with British out line.

Id. Short description of the system of building regulations and related documents.

Regulation for Building construction are produced by the Owerri Capital Development Authority. The Regulations are published in the form of official Gazette after approval by the Government. Some times some of these regulations vary slightly from state to state. In the case of heavy civil engineering such as road, bridges, rail, air etc. the regulation are issued by the appropriate Ministry of Works or parastatals. To set the regulation, the state government are in consultation with the Nigeria Standards Organisation.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Iia. National authorities or organizations which are issuing or adopting building regulations.

- (1) Organization: Owerri Capital Dev. Authority (OCDA)
Address: Port-harcourt Road, Owerri.
- (2) Organization: Ministry of Works & Housing,
Address: Okigwe Road, Owerri.

Phone: (083) 234434

Phone: (083) 230820

Fax: N/A

Fax: N/A

Telex: N/A

Telex: N/A

Main type of regulations:

Building Regulations

Main type of regulations:

Building Regulations

- (3) Organization:

- (4) Organization:

Address:

Address:

Phone:

Phone:

Fax:

Fax:

Telex:

Telex:

Main type of regulations:

Main type of regulations:

IIb. Bodies providing information on building regulations and standards.

- | | |
|---|---|
| <p>(1) Organization: Nigerian Standard Organisation (NSO)
 Address: Lagos Nigeria
 Phone:
 Fax:
 Telex:
 Main subjects: All subjects
 Type of service: Free - based Question - answer Service</p> | <p>(2) Organization: Nigerian Inst. of Architects
 Address: Nigerian Inst. of Engineers, All Professional bodies. Lagos Nig.
 Phone: N/A
 Fax: N/A
 Telex: N/A
 Main subjects: Construction Industries
 Type of service: Free - based</p> |
|---|---|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|--|--|
| <p>(1) Organization: OWERRI Capital Dev. Authority (OCDA)
 Address: Port-Harcourt Road, Owerri.
 Phone:
 Fax:
 Telex:
 Main type of documents: The Town & Country Planing Law (Cap.126) Regulations 1982</p> | <p>(2) Organization: Ministry of Works & Housing,
 Address: Okigwe Road, Owerri
 Phone: (083) 230820
 Fax: N/A
 Telex: N/A
 Main type of documents: Building Regulations</p> |
| <p>(3) Organization:
 Address:
 Phone:
 Fax:
 Telex:
 Main type of documents:</p> | <p>(4) Organization:
 Address:
 Phone:
 Fax:
 Telex:
 Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

The Town and Country Planning Law (Cap.126) regulations 1982 (Nigeria Building Code and Standard) Published by Government related to Construction.

IIIb. Databases.

- | | |
|--|--|
| <p>(1) Database name: N/A
 Producer: N.S.O. Standard Organisation
 Main contents: References of Nigerian Building Standard/ regulations.</p> | <p>(2) Database name:
 Producer:
 Main contents:</p> |
|--|--|

IIIc. Other systems of information.

(E.g. periodicals/news columns in journals)

Nigeria Inst. of Architects, Journals.
Inst. of Town Planning journal,
Nigerian Inst. of Engineers Published in Nigeria.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

Regulation of 1982

(Cap. 126)

IVb. Loading: (Including wind, snow and earthquake loads)

N.S.E. = Nigeria Society of Engineers

N.S. = Nigeria Standard Code of Practice

Land distribution (B.S. 112)

IVc. Concrete:

The Town and Country Planning Law

(Cap.126) Reg. 1982

IVd. Steel: Nigeria Steel Industry AjokutaIVe. Wood:

The Town & Country Planning Law

(Cap. 126) Regulation 1982

IVf. Foundations:

The Town and Country Planning Law

(Cap. 126) Reg. 1982

IVg. Drainage:

The Town and Country Planning Law

(Cap. 126) Reg. 1982

IVh. Fire:

Nigeria Fire Service Standard.

IVi. Electrical installations in buildings:

(N.E.P.A.) - National Electric Power Authority

Regulation for high Tension Current installation etc.

IVj. Water and sewerage:

The Town & Country Planning Law

(Cap. 126) Reg. 1982

IVk. Ventilation:

The Town and Country Planning Law

(Cap. 126) Reg. 1982

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.The Planning Authorities, Building
Regulations of 1982 of Nigeria.Vb. Introduction to the construction sector.(E.G. lists of addresses to authorities, organizations
and companies; descriptions; statistics)

Owerri Town Planning Authority, Owerri Nigeria,

Mbandia Town Planning Authority, Mbandia Nigeria.

Vc. Further reading about building regulations etc.

Federal Housing Authority Booklet

Questionary completed by: Engr. P.C. Chikwendu, M.Sc.;

M.I.H.E. {London} M.N.I.M.; M.A.S.C.E.; C.ENGR.;

(COREN) Managing Director Forestgate Construction
Company Limited, 13 Onumonu Street, Owerri Nigeria.Date: 4. 4. 89

QUESTIONNAIRE

Building regulations and standards in NORWAY (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional	Local (Municipality etc)
Laws	N		
Codes/regulations	M		
Standards	O		
Model specifications	NS 3420		

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I d. Short description of the system of building regulations and related documents.

Building Regulations effective 1 August 1969, with amendments, were made by the Ministry of Municipal Affairs and Labour exercising powers provided under the Building Act. They comprise compulsory detailed rules concerning application for building permission (requirements concerning specification, drawings, maps, etc.), technical requirements concerning different kinds of buildings, rooms, building elements, structural systems, installations, etc. The technical requirements are partly given as performance requirements. They refer to test methods and design methods in Norwegian Standards.

There is, in general, only one system of building control for all sectors of building production. The Building Act and the Regulations are binding for the whole country. Some regulations concerning the installation of electric, water and sanitary equipment (not the components themselves) are still issued by local bodies. National regulations are in preparation and will be issued later.

** Issued in 1986, probably. (Awaiting political decision)*

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization:
Ministry of Local Affairs and Labour
Address:
Post office box 8112, Oslo Dep. 0032 Oslo 1

Phone:
(02) 20 22 70
~~Telex~~ Telefax:
(02) 42 53 14

Main type of regulations:

(3) Organization:

Address:

Phone:

Telex:

Main type of regulations:

(2) Organization:
National Office of Building Technology and Administration
Address:
P.O. box 498, Centrum 0105 Oslo 1

Phone:
(02) 20 80 15

Telex:

Main type of regulations:

(4) Organization:

Address:

Phone:

Telex:

Main type of Regulations:

II b. Bodies providing information about building regulations and standards.

- | | | | |
|-----|--|-----|-------------------------|
| (1) | <u>Organization:</u>
Norsk byggtjeneste A/S | (2) | <u>Organization:</u> |
| | <u>Address:</u>
Haakon VII's gt. 2
Oslo 1 | | <u>Address:</u> |
| | <u>Phone:</u>
(02) 41 72 30 | | <u>Phone:</u> |
| | <u>Telex:</u> | | <u>Telex:</u> |
| | <u>Main subjects:</u>
Building | | <u>Main subjects:</u> |
| | <u>Type of service:</u>
Information about regulations
approval systems, approved
products | | <u>Type of service:</u> |

II c. Organizations where building regulations can be bought or aquired.

- | | | | |
|-----|---------------------------------------|-----|--------------------------------|
| (1) | <u>Organization:</u>
See under IIb | (2) | <u>Organization:</u> |
| | <u>Address:</u> | | <u>Address:</u> |
| | <u>Phone:</u> | | <u>Phone:</u> |
| | <u>Telex:</u> | | <u>Telex:</u> |
| | <u>Main type of documents:</u> | | <u>Main type of documents:</u> |
-
- | | | | |
|-----|--------------------------------|-----|--------------------------------|
| (3) | <u>Organization:</u> | (4) | <u>Organization:</u> |
| | <u>Address:</u> | | <u>Address:</u> |
| | <u>Phone:</u> | | <u>Phone:</u> |
| | <u>Telex:</u> | | <u>Telex:</u> |
| | <u>Main type of documents:</u> | | <u>Main type of documents:</u> |

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

- Statlige byggebestemmelser (Governmental building regulations) Revised Biannually. Published by Norsk Byggtjeneste.
- Catalogue of Norwegian Standards. Issued by the Norwegian Standards Association

III b. Databases

- | | | | |
|-----|-----------------------|-----|-----------------------|
| (1) | <u>Database name:</u> | (2) | <u>Database name:</u> |
| | <u>Producer:</u> | | <u>Producer:</u> |
| | <u>Main contents:</u> | | <u>Main contents:</u> |

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

Meldinger fra Statens bygningstekniske etat.
(Announcements from the National office of building technology and administration)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

New building regulations in 1985
Some chapters are also revised in 1986

IV b. Loading: (Including wind, snow and earthquake loads)

N Standard NS 3479

IV c. Concrete:

N Standard NS 3473

IV d. Steel:

N Standard NS 3472

IV e. Wood:

N Standard NS 3470

IV f. Foundations:

Building Regulations, chapter 42

IV g. Drainage:

Building Regulations, chapter 42

IV h. Fire:

Building Regulations, chapters 30-39

IV i. Electrical installations in buildings:

Laws about electric installations authorized 1929 and 1969.
Electricity Board to issue regulations.

IV j. Water and sewerage:

Building regulations from 1986

IV k. Ventilation:

Building regulations from 1986

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

V b. Introduction to the construction sector:

(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

Hvem svarer på hva i bygg- og anleggsbransjen.
4. edit.

(Who answers what in the building and civil engineering industry?)
Issued by Aas and Wahl Forlag A/S. Sørkedalsv. 10b
Oslo 3.

V c. Further reading about building regulations etc:

Questionary completed by:

H.P. Sundh, Norwegian Building Research Institute

Date: May 22, 1986

CIB W57/1989-03-01
QUESTIONNAIREBuilding regulations and standards in PHILIPPINES (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	M	M
Codes/regulations	M	M	M
Standards	M&O	M&O	M&O

- 1) Applies in the entire country or federation
 2) Applies only in e.g. states or provinces after their decision
 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

Right now Congress and the Senate body are now ~~revisiting~~ reviewing the NATIONAL BUILDING CODE and the Economic and Social Housing Standards so that it would be applicable to the existing cost and other factors.

Ic. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Some regulations and standards from abroad are adapted for local use. Some are from the America: Uniform Building Code, ASIM, ACI, American National Standards, ASCI; British Standards; International Standards Organization, Japanese standards (JIS), Indian standards and others.

Most building standards are based on UBC plus NBS standards.

Id. Short description of the system of building regulations and related documents.

There have been numerous reviews and assessments of the above regulations. These would cover low-cost housing standards, building code requirements including building materials - traditional and indigenous ones, standards

There is a National Building Code (N.B.C. 1096) and a National Subdivision and Land Development Code which are enforced by two separate regulatory bodies. In most cases local governments are deputized to regulate the codes. The National Building Code is a "referral code system" whereupon other detailed codes which are regularly updated are to be referred to. Such are for structural, electrical, mechanical, sanitary and fire requirements.

The Bureau of Product Standards (formerly the Product Standards Agency), being the central standardizing body or national standards body (NSR), formulates and implements standards as well as coordinates all standardization activities in the country. It operates in partnership with other standardizing bodies, such as the Philippine Standards Association and the Supply Coordination Office. As member of the International Organization for Standardization, it represents the Philippines in international standardization work.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- (1) Organization: Bureau of Product Standards (2) Organization: Department of Public Works and Highways

Address: 3rd floor, Trade and Industry Building

361 Sen. Gil J. Puyat Avenue

Makati, Metro Manila

Phone: 818-5707 to 41

Phone:

Fax:

Fax:

Telex:

Telex:

Main type of regulations:

Product Standards Formulation

Main type of regulations:

Design Standards,
National Building Code

- (3) Organization: Association of Structural Engineers of the Phil. (4) Organization: United Architects of the Philippines

Address:
Kalayaan Ave., U.P. Diliman, Q.C.Address:
Cultural Center of the Philippines
Eccles Blvd., Pasay City

Phone:

Phone: (313-11) 832-435 loc 267

Fax:

Fax:

Telex:

Telex:

Main type of regulations:

National Structural Code of the Philippines

Main type of regulations:

Architects' National Code
Professional Regulatory Code/Laws

IIb. Bodies providing information on building regulations and standards.

- | | |
|---|--|
| <p>(1) Organization:
Department of Public Works & Highways
Address:
Bonifacio Drive, Marikina</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:
Building Code, Design Standards</p> <p>Type of service:
Rules and Regulation Cases
Data on Approval</p> | <p>(2) Organization:
Housing & Land Regulatory Board
Address:
Sen. Gil J. Puyat Avenue, Makati, Metro Manila</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:
Land Development Regulations</p> <p>Type of service:
Rules and Regulations Cases
Data on Approval</p> |
|---|--|

IIc. Organizations where building regulations can be bought or acquired.

- | | |
|--|--|
| ***** SAME AS THE ABOVE ***** | |
| <p>(1) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> | <p>(2) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:</p> |
| <p>(3) Organization:
Bureau of Product Standards
Address:
367 Sen. Gil J. Puyat Ave.,
Makati, Metro Manila</p> <p>Phone: 818-5701 to 41</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Product Standards</p> | <p>(4) Organization:
Association of Structural Engineers of the
Address: Philippines
Welby Ave, U.P. Diliman, C.C.</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Structural Codes</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

107 Mc. 1208 - 1982, Office of the President
PHILIPPINE NATIONAL STANDARDS CATALOGUE - 1986, Bureau of Product Standards

Documents are in limited circulation and hard to get hold of. Cataloguing has not been undertaken systematically. A good area for research if funds are available.

CONSTRUCTION MATERIALS STANDARDS -- A COMPILATION, May 1986
Construction Technology Program - Construction Industry Authority of the Philippines

IIIb. Databases.

- | | |
|---|--|
| <p>(1) Database name:
Producer:

Main contents:</p> | <p>(2) Database name:
Producer:

...Main contents:</p> |
|---|--|

IIIc. Other systems of information.
(E.g. periodicals, news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

National Building Code
 Government Contract Procedures
 Subdivision Regulations and Condominium Acts
 BP220 Standards for Economic and Socialized Housing
 (now ECONOMIC & SOCIAL HOUSING CODE - Senate Bill)

IVb. Loading: (Including wind, snow and earthquake loads)

National Structural Code for Buildings of the Philippines (NSCB)

IVc. Concrete: NSCB

PNS - 16 Specification for Concrete Hollow Blocks - Type I 1984
 PNS - 17 Specification for Chemical Admixture for Concrete, 1984
 PNS - 18 Specification for Concrete Aggregates, 1984/SAO 450:1981 - Reinforced
 PNS - 46 Ready-Mixed Concrete, 1987 [Concrete Sewer, Storm Drain &
 PNS - 59 Non-Reinforced Concrete Flooring Tiles [Culvert Pipe
 SAO 438:1980 - Concrete Pipe Section or Tile [DPNS 115 - Fly Ash for Use in
 IVd. Steel: [Concrete
 Fire Code of the Philippines [DPNS 116 - Non-Reinforced Concrete
 ASEP Handbook of STRUCTURAL STEEL SHAPES & SECTIONS [Sewer, Storm Drain and Culvert
 May 1987 [Pipe (under public hearing)
 SAO 69 Specification for Cold Drawn Steel Wire for Concrete Reinforcements, 1977
 SAO 68 Specification for Steel Wire Mesh (Welded) for Concrete Reinforcements, 1969
 National Structural Code for Buildings of the Philippines (NSCB)

IVe. Wood:

National Structural Code for Buildings of the Philippines (NSCB)
 Fire Code of the Philippines
 Chipboard SAO 439:1981/Hardboard & Medium Density Board SAO 251:1977
 Plywood SAO 6-2:1977/Sawn Lumber DPNS/Timber Requirements for Kiln Dry SAO 370:1979
 Timber Poles, Preservative SAO 322:1978/Veneer SAO 5-1:1971

IVf. Foundations:

National Structural Code for Buildings of the Philippines

IVg. Drainage:

Sanitary Code of the Philippines
 National Plumbing Code of the Philippines

IVh. Fire: National Building Code/Fire Code of the Philippines

PNS 15 Specification for Portable Fire Extinguisher, 1983
 PNS 27 Rules for Classification, Fire Testing and Rating of Fire Extinguishers, 1984
 Graphic Symbols for Fire Protection Plans ISO 06790

IVi. Electrical installations in buildings:

PNS 43 Specification for EC Aluminum Redrawn Rod for Electrical Purposes, 1985
 PNS 40 Specification for Copper Redrawn Rod for Electrical Purposes, 1984
 PNS 35 Specification for Thermoplastic Insulated Electrical Wires and Cables, 1984
 Electrical Code of the Philippines

IVj. Water and sewerage:

SAO 335:1978 Specification for uPVC pipes for Potable Water
 SAO 374:1979 Specification for uPVC pipes for Sewer Applications
 Local Water Utilities Administration
 Metropolitan Water and Sewerage System
 National Plumbing Code

IVk. Ventilation:

Mechanical Code of the Philippines
 Electrical Code of the Philippines
 Code of Practice

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Five Year Development Plan of the Philippines -
 National Economic Development Authority

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

1. Construction Industry Authority of the Philippines
6th Floor Finnangen Center, Tordesillas Street, Salcedo Village, Makati, MM
 2. Philippine Council for Industry and Energy Research & Development
Science Community Complex, General Santos Avenue, Bicutan, Taguig, MM
 3. United Architects of the Philippines, CCP Complex, Roxas BLVD., Manila
 4. Philippine Institute of Civil Engineers & Association of Struct. Eng'g of the Phil
Kalayaan Avenue, Diliman, Quezon City
 5. Philippine Constructors Association & Association of Construction Equipment
Leasors, Padilla Building, Emerald Avenue, Ortigas Commercial Complex
 6. Department of Public Works and Highways, Port Area, Manila
 7. Building Research Service, National Engineering Center, U.P. Diliman, Q.C.
 8. National Census and Statistical Office, Manila
 9. National Economic Development Authority, Ortigas Commercial Complex,
San Miguel Avenue, Pasig, Metro Manila
- Vc. Further reading about building regulations etc.**

Various information papers of the Building Research and Standards of the
 Bureau of Design, Department of Public Works and Highways, Manila

Questionnaire completed by:

LAVON MARY G. ABIS
 Building Research Service, National Engineering Center
 University of the Philippines, Diliman, Quezon City

Date: 19 May 1989

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in POLAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

There are three basic types of building regulations:

- Building Law - issued by Government and complemented by building rules issued by Ministry of Building;
- state codes of practice, standards and construction requirements approved by Building Research Institute and issued by Polish Committee for Standardization, Measures and Quality Control;
- certificates on application in building of new materials, new structural solutions etc., issued by Building Research Institute;

All building regulations are obligatory.

II. INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|---|
| <p>(1) Organization: <u>Polish Committee for Standardization, Measures and Quality Control</u>
Address: <u>ul. Elektoralna 2</u>
<u>00-139 Warszawa</u>
Poland
Phone: <u>200241</u>
Fax:
Telex: <u>813642 PKNPL</u></p> <p>Main type of regulations:
<u>Polish codes of practice and standards</u></p> <p>(3) Organization:
Address:

Phone:
Fax:
Telex:
Main type of regulations:</p> | <p>(2) Organization: <u>Building Research Institute</u>
Address: <u>ul. Filtrowa 1</u>
<u>00-950 Warszawa</u>
Poland
Phone: <u>251303 /Director/</u>
Fax: <u>251302</u>
Telex: <u>813022</u></p> <p>Main type of regulations:
<u>Construction requirement certificates on application in building</u></p> <p>(4) Organization:
Address:

Phone:
Fax:
Telex:
Main type of regulations:</p> |
|--|---|

IIb. Bodies providing information on building regulations and standards.

- | | |
|--|--|
| <p>(1) Organization: Polish Committee for Standardization, Measures and Quality Control
Address: ul. Elektoralna 2
00-139 Warszawa
Poland
Phone: 200241
Fax:
Telex: 813642 PKNPL
Main subjects: All subjects
Type of service: Fee-based question-answer service or access to documents</p> | <p>(2) Organization: COIB - Building Information Centre
Address: ul. Wierzbowa 11
00-094 Warszawa
Poland
Phone: 268271
Fax:
Telex:
Main subjects: All subjects
Type of service: Fee-based question-answer service or access to documents</p> |
|--|--|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|---|--|
| <p>(1) Organization: Central Bookshop for Standards
Address: ul. Sienna 63
00-820 Warszawa
Poland
Phone: 207927
Fax:
Telex: 812374 plw UE
Main type of documents:</p> | <p>(2) Organization:--
Address:
Phone:
Fax:
Telex:
Main type of documents:</p> |
| <p>(3) Organization:
Address:
Phone:
Fax:
Telex:
Main type of documents:</p> | <p>(4) Organization:
Address:
Phone:
Fax:
Telex:
Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

Katalog polskich norm / Catalogue of Polish Standards/.
Published by "Wydawnictwo Normalizacyjne ALFA", Warsaw 1985. Contains classification, list and index of Polish codes and standards related to building. In Polish /classification translated in English/.

IIIb. Databases.

- | | |
|---|---|
| <p>(1) Database name: PAWRIN
Producer: COINIM /Standard and Meteorologic Information
Main contents: Centre References to Polish codes and standards</p> | <p>(2) Database name:
Producer:
Main contents: ..</p> |
|---|---|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

- "Biuletyn PKNMiJ" /"Bulletin of Polish Committee for Standardization, Measures and Quality Control"/. Published by Wydawnictwo Normalizacyjne ALFA, ul. Nowogrodzka 22, 00-511 Warszawa.
- "Normalizacja" /"Standardization"/. Published monthly by Wydawnictwo Normalizacyjne

IV MOST IMPORTANT BUILDING REGULATIONS
(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

1. "Building Law" - issued in 1974. Distribution - Office of the Prime Minister, ul.Powisńska 69/71, 00-979 Warszawa.
2. PN 72/B-03001 "Building structures and codes. Design principles"- published in 1972.

IVb. Loading: (Including wind, snow and earthquake loads)

PN-82/B-2000:2004 "Actions on building structures".
Group of standards published in 1982.

IVc. Concrete:

1. PN-84/B-03264 "Concrete, reinforced concrete and prestressed concrete structures". Design rules".
Issued in 1984.
2. PN-75/B-06250 "Plain Concrete". Actually under revision.
Deals with technology, quality assurance and testing of concrete.

IVd. Steel:

PN-80/B-03200 "Steel structures. Design rules."
Issued in 1980.

IVe. Wood:

PN-81/B-03150 "Wooden structures. Design rules."
Issued in 1980.

IVf. Foundations:

PN-81/B-03020 "Building soils. Direct foundations. Design rules".
Issued in 1981.

IVg. Drainage:

Group of standards 0773 "Land melioration. Bank protections"
Issued from 1964 till 1981.

IVh. Fire: Group of standards 0720 "Fire protection in building".
Issued from 1964 till 1982.

IVI. Electrical installations in buildings:

Group of standards 0602 "Electrical installations. Calculating and design standards".
Issued from 1974 till 1984.

IVj. Water and sewerage:

Group of standards 0721 "Water supply services and sewage system".
Issued from 1971 till 1985.

IVk. Ventilation:

Group of standards 0724 "Heating, ventilation and air conditioning".
Issued from 1970 till 1984.

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

1. "Wykaz jednostek organizacyjnych Resortu Budownictwa i Przemysłu Materiałów Budowlanych".
/List of enterprises and offices in building/.
Issued in 1983 by the Law Offices of the Ministry of Buildings and Building Industry. In Polish.
2. "Przegląd statystyczny Ministerstwa Budownictwa i Materiałów Budowlanych". /Statistical review of the Ministry of Building and Building Industry/.
Issued by Ministry of Building and Building Industry in 1983.

Vc. Further reading about building regulations etc.

Handbooks and commentaries

Questionnaire completed by:

Jan Pawlikowski
Building Research Institute
ul.Filtrowa 1 , 00-950 Warszawa , Poland

Date:

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in PORTUGAL (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M	M	M
Standards	O*		
Specifications (LNEC standards)	O*		

* M if enforced by regulations

- 1) Applies in the entire country or federation
2) Applies only in e.g. states or provinces after their decision
3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

The regional and municipal regulations, and the municipal orders above mentioned (Ia.) are specific regional and municipal dispositions that particularize national laws and regulations.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

In the lack of applicable national regulation or enforced standard, the use of some other rule is free.

Id. Short description of the system of building regulations and related documents.

The documents that make up the building regulations fall roughly within the following categories:

Laws - guiding principles and fundamental provisions in fields such as: ownership, surface area, use, occupancy and urbanization rights, allotment and transfer rights of land for urban and industrial use; building permits, permits for installation and for the exploitation of buildings for public or industrial uses or for uses that may be a public danger;

Regulations - particularized for specific application of the afore-mentioned laws, particularly as regards specific parts of the country, the qualification of designers and contractors, building work, actions on buildings, structures of specific materials, installations, supply and sewage disposal systems;

Standards (national and departmental)-regarding materials and building techniques;

Agreements - required by the Building Regulations for the use of new products and construction methods.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|---|---|
| <p>(1) Organization:
Ministry of Public Works
Address:
Praça do Comércio
1100 LISBOA
PORTUGAL
Phone:
87 80 41
Fax:

Telex:

Main type of regulations:
Building construction</p> | <p>(2) Organization:
Portuguese Institute for Quality
Address:
Rua José Estêvão, 83-A
1100 LISBOA
PORTUGAL
Phone:
53 98 91
Fax:
53 00 33
Telex:
13042 QUALIT P
Main type of regulations:
Portuguese standards</p> |
| <p>(3) Organization:
LNEC - National Civil Engineering
Address: Laboratory
Av. do Brasil, 101
1799 LISBOA CODEX
PORTUGAL
Phone:
88 21 31
Fax:
89 76 60
Telex:
16 760 LNEC P
Main type of regulations:
Specifications (LNEC standards)</p> | <p>(4) Organization:
Directorate-General of Energy
Address:
Rua de S. Sebastião da Pedreira, 37
1000 LISBOA
PORTUGAL
Phone:
57 20 99
Fax:

Telex:

Main type of regulations:
Electrical and lift installations
Electric lines</p> |

IIb. Bodies providing information on building regulations and standards.

- | | |
|---|---|
| <p>(1) Organization:
LNEC - Nacional Civil Engi-
Address: neering Laboratory
Av. do Brasil, 101
1799 LISBOA CODEX
PORTUGAL</p> <p>Phone:
88 21 31</p> <p>Fax:
89 76 60</p> <p>Telex:
16760 LNEC P</p> <p>Main subjects:
Building regulations
Specifications (LNEC standards)</p> <p>Type of service:
Usually free of charge</p> | <p>(2) Organization:
Portuguese Institute for Quality</p> <p>Address:
Rua José Estêvão, 83-A
1100 LISBOA
PORTUGAL</p> <p>Phone:
53 98 91</p> <p>Fax:
53 00 33</p> <p>Telex:
13042 QUALIT P</p> <p>Main subjects:
Portuguese, foreign and
international standards</p> <p>Type of service:
Usually free of charge</p> |
|---|---|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|---|---|
| <p>(1) Organization:
Imprensa Nacional-CM, EP
Address: (National Printing Office)
Rua da Escola Politécnica
1200 LISBOA
PORTUGAL</p> <p>Phone:
67 30 35</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Regulations</p> | <p>(2) Organization:
Portuguese Institute for Quality</p> <p>Address:
Rua José Estêvão, 83-A
1100 LISBOA
PORTUGAL</p> <p>Phone:
53 98 91</p> <p>Fax:
53 00 33</p> <p>Telex:
13042 QUALIT P</p> <p>Main type of documents:
Portuguese, foreign and
international standards</p> |
| <p>(3) Organization:
LNEC - Nacional Civil Engi-
Address: neering Laboratory
Av. do Brasil, 101
1799 LISBOA CODEX
PORTUGAL</p> <p>Phone:
88 21 31</p> <p>Fax:
89 76 60</p> <p>Telex:
16 760 LNEC P</p> <p>Main type of documents:
Specifications (LNEC standards)</p> | <p>(4) Organization:
Local ISO-member in your country</p> <p>Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of documents:
Portuguese standards</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

- 1) Relação das disposições legais a observar pelos técnicos responsáveis dos projectos de obras e sua execução (List of references of the legal provisions to be complied with by people in charge of the projects and of the execution of works). Published "annually" in the Government Gazette, I Series - the last one in the number of 1987-08-21, p.3276-3291 (see II c.1).
- 2) Catálogo IPQ (Portuguese standards catalogue). Published annually by the Portuguese Institute for Quality (see II a.2).
- 3) Lista de Publicações. Catalogue of the technical papers published by National Civil Engineering Laboratory. Lists LNEC standards. (see II a.3).

IIIb. Databases.

- | | |
|--|--|
| <p>(1) Database name:</p> <p>Producer:</p> <p>Main contents:</p> | <p>(2) Database name:</p> <p>Producer:</p> <p>Main contents:</p> |
|--|--|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

"A Capital". Lisbon newspaper that divulges the content of the Government Gazette of the same working day.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g. important laws or main code documents)

- 1) Regulamento Geral das Edificações Urbanas (General regulation on urban buildings), DL 38382, 1951. Publisher: IN-CM (see II c.1).
- 2) Regulamento de Segurança no Trabalho da Construção Civil (Safety regulation for building construction), D 41821, 1958. IN-CM (see II c.1).
- 3) Regulamento Geral sobre o Ruído (General regulation on noise), DL 251/87. Publisher: IN-CM (see II c.1).

IVb. Loading: (Including wind, snow and earthquake loads)

Regulamento de Segurança e Acções para Estruturas de Edifícios e Pontes (Regulation on safety requirements for and actions on building and bridge structures), DL 235/83. Publisher: IN-CM (see II c.1).

IVc. Concrete:

- 1) Regulamento de Betões de Ligantes Hidráulicos (Regulation for concrete), D 404/71. Publisher: IN-CM (see II c.1).
- 2) Regulamento de Estruturas de Betão Armado e Pré-Esforçado (Regulation for prestressed and reinforced structural concrete), DL 349-C/83. Publisher: IN-CM (see II c.1).

IVd. Steel:

Regulamento de Estruturas de Aço para Edifícios (Regulation for steel structures), DL 211/86, Publisher: IN-CM (see II c.1).

IVe. Wood:**IVf. Foundations:****IVg. Drainage:****IVh. Fire:****IVi. Electrical installations in buildings:**

- 1) Regulamento de Segurança de Linhas Eléctricas de Alta Tensão. (Safety regulation for high-tension lines), D 46847, 1966. Publisher: IN-CM (see II c.1).
- 2) Regulamento de Segurança de Instalações de Utilização de Energia Eléctrica (Safety regulation for electrical installations), DL 740/74. Publisher: IN-CM (see II c.1).

IVj. Water and sewerage:

- 1) Regulamento Geral de Abastecimentos de Água (General regulation for water supply), P 10367, 1943. Publisher: IN-CM (see II c.1).
- 2) Regulamento Geral de Canalizações de Esgoto (General regulation for drains and private sewers), P 11338, 1946. Publisher: IN-CM (see II c.1).

IVk. Ventilation:**V BIBLIOGRAPHY**

(Suggestions for literature of interest)

Va. General information on the country.

- 1) Anuário Geral. Publisher: EPNC - Av. da Liberdade, 266 - 1200 Lisboa - PORTUGAL. General information on the country (places, buildings and services of interest, public works, etc.), in particular on its administrative organisation.
- 2) Anuário Comercial de Portugal. Publisher: EPNC (see above). General information on the activities of agriculture, commerce and industry, professions and services.

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

- 1) List of addresses to authorities, organizations and companies: see Va.1) e 2).
- 2) Estatísticas da Habitação e da Construção. Publisher: Instituto Nacional de Estatística - Av. António José de Almeida - 1000 Lisboa - PORTUGAL. Contains housing and building statistics.
- 3) Building Regulations in ECE Countries, 1985. Publisher: United Nations. New York. Reference ECE/HBP/52. Contains: main guiding principles of building control; role of public, semi-public or private bodies; means of control and procedures for approval; means of communication; scientific research and development work.

Vc. Further reading about building regulations etc.

A Regulamentação de Edifícios em Portugal, 1981. English version of the contribution of Portugal to the United Nations brochure "Building Regulations in ECE Countries" above mentioned, prepared by the LNEC - National Civil Engineering Laboratory.

Questionnaire completed by:

LNEC - Laboratório Nacional de Engenharia Civil
Av. do Brasil, 101
1799 LISBOA CODEX PORTUGAL

Date: 1989-05-15

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in SPAIN (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	O		

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
- No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

Buildings Regulations forming an open system and with different names, i.e. NBE, Normas Básicas de la Edificación, Instrucciones, Reglamentos, etc., are compulsory all over the country and are issued by the Government of the State.

Regional Governments (Comunidades Autónomas) can adapt these Regulations to their specific characteristics without altering the basic lines.

Local by-laws (Ordenanzas) issued by the Local Governments (Ayuntamientos) - and compulsory within their territories, act sometimes as a complement of the above mentioned regulations.

Spanish standards (UNE) are issued by AENOR (Spanish Association for Standardization) and are compulsory only when one of the Building Regulations makes them mandatory. Otherwise they are optional. The actual trend is to use them as a base in the Technical Specifications included in Building Regulations.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

Ia. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| <p>(1) Organization: MINISTERIO DE OBRAS PUBLICAS TY URBANISMO-MOPU
Address: Nuevos Ministerios Pº de la Castellana 28046 MADRID
Phone:
Fax: 234 02 44
Telex: 49 362 IPPV E
Main type of regulations: Building in general</p> | <p>(2) Organization: MINISTERIO DE INDUSTRIA Y ENERGIA - MINER
Address: Pº de la Castellana, 160 28046 MADRID
Phone: 458 80 10
Fax:
Telex:
Main type of regulations: Building installations regarding safety</p> |
| <p>(3) Organization: Comunidades Autónomas (see last page)
Address:
Phone:
Fax:
Telex:
Main type of regulations:</p> | <p>(4) Organization:
Address:
Phone:
Fax:
Telex:
Main type of regulations:</p> |

Iib. Bodies providing information on building regulations and standards.

- | | |
|--|--|
| <p>(1) Organization:
MINISTERIO OBRAS PUBLICAS Y URBA
Address: NISMO (MOPU)</p> <p>Same as II a (1)</p> <p>Phone: 253 44 00 - 3957
233 56 58</p> <p>Fax:</p> <p>Telex: 49 362 IPPV E</p> <p>Mainsubjects:
All concerne with Building
Regulations
Type of service:
Documentation and Information
Directorate General for Mousing and
Architecture</p> | <p>(2) Organization: AENOR (ASOCIACION ESPAÑOLA
DE NORMALIZACION Y CERTIFICACION)
Address:</p> <p>Fernández de la Hoz, 52
28010 MADRID</p> <p>Phone: 410 48 51</p> <p>Fax:</p> <p>Telex:</p> <p>Mainsubjects:
Spanish Standards-Normas UNE</p> <p>Type of service:
Documentación</p> |
|--|--|

Iic. Organizations where building regulations can be bought or aquired.

- | | |
|--|---|
| <p>(1) Organization:
MOPU
Address:
Same as indicated in II a (1)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:
See MOPU catalogue</p> | <p>(2) Organization:--
MINER (Ministerio de Industria y Energía)
Address:
II a (2)</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:</p> |
| <p>(3) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:</p> | <p>(4) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

- Indice de disposiciones relacionadas con la edificación MOPU, 1987
- (Index of main building provisions arranged by subjects in alphabetical order and with a succinct description of its content.)

IIIb. Databases.

- | | |
|---|--|
| <p>(1) Database name: None</p> <p>Producer:</p> <p>Main contents:</p> | <p>(2) Database name:</p> <p>Producer:</p> <p>Main contents:</p> |
|---|--|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

Revista UNE. Editor AENOR (See Iib (2))
Boletín Oficial del Estado (BOE) (Official Journal)
Magazines: El Monitor
Arte y Cemento
Informes de la Construcción
Etc.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

No general Building Regulations exist as a whole, but particular regulations in each field, as follows:

IVb. Loading: (Including wind, snow and earthquake loads)

NBE-MV. 101 Acciones en Edificación (Building Loads)
PGS-1 Norma Sismorresistente (Seismic actions)

IVc. Concrete:

Instrucción para el proyecto y ejecución de las estructuras de hormigón armado y en masa EH-88 (reinforced concrete). Id. para estructuras pretensadas EP-82 (prestressed concrete)

IVd. Steel:

Normas Básicas de la Edificación NBE - MV - 102 to 111 (See MOPU catalogue)

IVe. Wood:

None

IVf. Foundations:

See IVc Concrete. Chapter concerning Foundations

IVg. Drainage:

Pliego Oficial de recepción de tuberías y obras de saneamiento. MOPU.

IVh. Fire:

Norma Básica de la Edificación NBE CPI - 82 Condiciones de Protección contra el fuego de los edificios.

IVi. Electrical installations in buildings:

Reglamento electrotécnico para baja tensión. MINER y disposiciones complementarias.

IVj. Water and sewerage:

Normas Básicas para las instalaciones interiores de suministro de agua. Orden MINER 9.12.75.

Pliego de Prescripciones Técnicas Generales para tuberías de abastecimiento de agua. Ordeh de 24.07.74.

IVk. Ventilation:

Reglamento de instalaciones de Calefacción, Climatización y Agua Caliente Sanitaria e Instrucciones T. complementarias RD 1618/1980 y Orden 16.07.81.

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

INE's Annual Report (Instituto Nacional de Estadística)

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations and companies; descriptions; statistics)

CNC Confederación Nacional de la Construcción
c/ Príncipe de Vergara, 74 MADRID

Vc. Further reading about building regulations etc.

Questionary completed by:

Julio Salazar y Javier Serra - MOPU
Dirección General para la Vivienda y Arquitectura
Nuevos Ministerior - 28046 MADRID

Date: 10.05.89

QUESTIONNAIRE

Building regulations and standards in SWEDEN (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	O		
Model Specifications (ANSI)	O		

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

 Yes NoIc. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

Id. Brief description of the system of building regulations and related documents.

Regulations for building construction are issued by the National Board for Housing, Building and Planning. The main document "Nybyggnadsregler", NR 1 came into force 1989-01-01. The regulations are to a great extent expressed in functional terms and are adapted to international principles e. g. by introducing limit state design methods. Older regulations (SBN 1980) may be used until 1990-12-31.

The new regulations are published by powers of the Planning and Building Act and The Planning and Building Ordinance issued by the Government. For certain civil engineering and special construction works such as roads, bridges, rail roads etc regulations are issued by various government agencies.

Swedish standards are referred to in the regulations as examples of technical solutions (deemed-to-satisfy solutions) and are optional.

The new regulations will be supplemented by calculation methods etc published separately in the near future.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

(1)	(2)
Organization: National Board of Housing, Building and Planning	Organization: Swedish National Road Administration
Address: Box 534	Address: Röda vägen 1
s-371 23 Karlskrona	s-781 87 Borlänge
Phone: 0455-53000	Phone: +243-750 00
Fax: 0455-53100	Fax:
Telex:	Telex: 74114
Main type of regulations: Building construction	Main type of regulations: Road and bridges
(3)	(4)
Organization: Swedish Standards Institution, SIS	Organization: National Board of Occupational Safety and Health
Address: Box 3295	Address: 171 84 Solna
s-103 66 Stockholm	Sweden
Phone: +8-23 04 00	Phone: +8-730 90 00
Fax:	Fax: +8-730 19 67
Telex: 17453	Telex: 15816
Main type of regulations: Swedish standards	Main type of regulations: Safety and Health issues related to buildings and construction work.

Iib. Bodies providing information on building regulations and standards.

(1)
Organization: BYGGDOK - The Swedish Institute of Building Documentation
Address: Hälsingegatan 49
S-113 31 Stockholm

Phone: +8-34 01 70
Fax: +8-32 48 59
Telex: 12563

Main subjects: All subjects

Type of service:
Fee-based question-answer service
On-line databases

(2)
Organization:
Address:

Phone:
Fax:
Telex:

Main subjects:

Type of service:

Iic. Organizations from which building regulations are available.

(1)
Organization: AB Svensk Byggtjänst (Swedish Building Centre)
Address: Box 7853
S-103 99 Stockholm

Phone: +8-734 50 00
Fax: +8-734 50 99
Telex: 812 50 70

Main type of documents: Nybyggnadsregler (NR)
Various

(3)
Organization: Local ISO-member in your country
Address:

Phone:
Fax:
Telex:

Main type of documents: Swedish standards

(2)
Organization: Liber AB
Address: Sorterargatan 23
S-162 89 Stockholm

Phone: +8-739 90 00
Fax: +8-739 90 35
Telex: 12801

Main type of documents: Government prints
Law texts (SPS)

(4)
Organization:
Address:

Phone:
Fax:
Telex:

Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- 1) Förteckning över byggsektorns regler (List of regulations of concern to construction, In Swedish) AB Svensk Byggtjänst, Stockholm 1988.
- 2) Katalog över svensk standard (Catalogue of Swedish standards, in Swedish with titles in English translation) Published annually by SIS, The Swedish Standards Institution

IIIb. Databases.

(1)	(2)
Database name: BYGGREGLER	Database name:
Producer: BYGGDOK	Producer:

Main contents: References to Swedish laws, regulations and related documents in force and of concern to construction.	Main contents:
(In Swedish, on-line during 1989)	

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

"Nya Byggregler" (New building codes and standards)

Contains references to new and revised regulations, laws, standards etc of interest to construction. In Swedish.

Published quarterly by BYGGDOK.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Plan och bygglag, SFS 1987:246 (Planning and building law)
- 2) Plan och byggförordning, SFS 1987:383 (Planning and building ordinance)
(Distribution: Liber, see IIc.2)
- 3) Nybyggnadsregler, (NR1), BPS 1988:18 (Regulations for new construction)
(Distribution AB Svensk Byggtjänst, see IIc.1)

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

NR 1, chapter 6:2

IVc. Concrete:

NR 1, chapter 6:6

IVd. Steel:

NR 1, chapter 6:7

IVe. Wood:

NR 1, chapter 6:4

IVf. Foundations:

NR 1, chapter 6:3

IVg. Drainage:

NR 1, chapter 7

IVh. Fire:NR 1, chapter 8 (+ NR chapters 1-5,9)
SFS 1987:246, chapter 2 § 4, chapter 3 §§ 2, 6, 15IVi. Electrical installations in buildings:Starkströmsföreskrifterna; STEV-FS 1988:1
(Regulations for high-tension current installations)

Distribution: Liber, see IIc.2

IVj. Water and sewerage:

NR 1, chapter 5

IVk. Heating and ventilation:

NR 1, chapter 4 (ventilation)

NR 1, chapter 3 (heating)

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Fact sheets on Sweden (various subjects, published in english, french and german)

The Swedish Institute, Box 7434, S-103 91 Stockholm

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

- 1) Informationskällor Bygg & Miljö (Information sources related to construction and environment)
Authorities, organizations, Journals, databases. In swedish with an english language index.
BYGGDOK 1900, see I Ib.1.

Vc. Further reading about building regulations etc.Questionnaire completed by:Börje Höglander
BYGGDOK - The Swedish Institute of
Building Documentation
Hälsingegatan 49
S-113 31 Stockholm, SwedenDate: 1989-03-28

QUESTIONNAIRE

Building regulations and standards in SWITZERLAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional (Cantons)	Local (Municipality etc)
Laws		M	
Codes/regulations			M
Standards	O	O (M)	O (M)

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

- Model regulations for heat (thermal) insulation and technical installations from federal office for energy (PEW)
- Standards from the Swiss association of architects and engineers

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

I a. Short description of the system of building regulations and related documents.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| <p>(1) Organization: SIA
Swiss association for architects and engineers
Address:
Selnanstrasse 16
CH-8039 Zürich
Phone: 01/201 1570
Telex:
Main type of regulations:</p> | <p>(2) Organization: CRB
Schweiz, Zentralstelle für Baurationalisierung
Address:
Seefeldstrasse 214
CH-8008 Zürich
Phone:
Telex:
Main type of regulations:</p> |
| <p>(3) Organization: SEV
Swiss association for electrical engineers
Address:
Seefeldstrasse 301
CH-8034 Zürich
Phone:
Telex:
Main type of regulations:</p> | <p>(4) Organization:
Address:
Phone:
Telex:
Main type of Regulations:</p> |

II b. Bodies providing information about building regulations and standards.

- | | |
|--------------------------|--------------------------|
| (1) <u>Organization:</u> | (2) <u>Organization:</u> |
| <u>Address:</u> | <u>Address:</u> |
| <u>Phone:</u> | <u>Phone:</u> |
| <u>Telex:</u> | <u>Telex:</u> |
| <u>Main subjects:</u> | <u>Main subjects:</u> |
| <u>Type of service:</u> | <u>Type of service:</u> |

II c. Organizations where building regulations can be bought or aquired.

- | | |
|---|---|
| (1) <u>Organization:</u>
See IIa (1) | (2) <u>Organization:</u>
See IIa (2) |
| <u>Address:</u> | <u>Address:</u> |
| <u>Phone:</u> | <u>Phone:</u> |
| <u>Telex:</u> | <u>Telex:</u> |
| <u>Main type of documents:</u> | <u>Main type of documents:</u> |
| (3) <u>Organization:</u> | (4) <u>Organization:</u> |
| <u>Address:</u> | <u>Address:</u> |
| <u>Phone:</u> | <u>Phone:</u> |
| <u>Telex:</u> | <u>Telex:</u> |
| <u>Main type of documents:</u> | <u>Main type of documents:</u> |

IV j. Water and sewerage:IV k. Ventilation:V BIBLIOGRAPHY
(Suggestions for literature of interest).

- V a. General information on the country:
- V b. Introduction to the construction sector:
(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

V c. Further reading about building regulations etc:Questionary completed by:

Prof. Dr. Ch. Zürcher
 Institut für Hochbautechnik (HBT)
 Gruppe Bauphysik
 ETHZ, Hönggerberg, CH-0093 ZÜRICH

Date: 1.8.82



Normenwerk

August 1985

- Stichwortverzeichnis (August 1985)
- Terminsätze 1985
- 102 Ordnung für Leistungen und Honorare der Architekten (1984)
- 103 Ordnung für Leistungen und Honorare der Bauingenieure (1984)
- 104 Ordnung für Leistungen und Honorare der Forstingenieure (1984)
- 106 Normen für die Einrichtung und den Betrieb von Aufzugsanlagen (1960) (siehe auch 370/10 und 370/24)
- 108 Ordnung für Leistungen und Honorare der Maschinen- und der Elektroingenieure sowie der Fachingenieure für Gebäudeinstallationen (1984)
- 110 Honorarordnung für Quartier-, Orts- und Regionalplanung (1966) mit Ergänzung (1971) Teilrevision Tarif B (1983) und Zeittarif (1985)
- 116 Normalien für kubische Berechnungen von Hochbauten (1952)
- 117 Norm für die Ausschreibung und Vergabe von Arbeiten und Lieferungen bei Beauftragten (Submissionsverfahren) (1972)
- 118 Allgemeine Bedingungen für Bauarbeiten, Norm (1977)
- 123 Bedingungen und Messvorschriften für Spenglerarbeiten, Metallverkleidungen und Metallbedachungen (1970)
- 124 Bedingungen und Messvorschriften für Dach- eindeckungen und Fassadenverkleidungen mit harten Dachmaterialien (1970)
- 126 Bedingungen und Messvorschriften für Schreinerarbeiten (1959)
- 127 Bedingungen und Messvorschriften für Malerarbeiten (1966) und deren Anwendung (Empfehlung 127E/1972)
- 128 Bedingungen und Messvorschriften für Parkettarbeiten (1955)
- 130 Bedingungen und Messvorschriften für Schlosser- und Metallarbeiten (1959)
- 131 Bedingungen und Messvorschriften für Glaserarbeiten (1959)
- 133 Bedingungen und Messvorschriften für Linoleum-, Kunststoff-, Korkparkett- und Gummibeläge in Bahnen und Platten (1963)
- 134 Bedingungen und Messvorschriften für gegossene Fertigbeläge und Unterlagsböden (1959)
- 136 Bedingungen für die Lieferung von Aufzügen (1939)
- 138 Bedingungen für die Lieferung von Beschlägen (1940)
- 140 Bedingungen für Hafnerarbeiten und Ofenlieferungen (1940)
- 141 Bedingungen und Messvorschriften für die Ausführung von Gartenanlagen (1963)
- 148 Bedingungen für Wärme-, Kälte- und Schallsicherungen (1951)
- 150 Verfahren vor einem Schiedsgericht, Richtlinie (1977)
- 151 Standesordnung (1962)
- 152 Ordnung für Architekturwettbewerbe (1972)
- 153 Ordnung für Bauingenieurwettbewerbe (1972)
- 154 Ordnung über die Werbung (1973)
- 155 Ausarbeitung von Gutachten, Richtlinie (1977)
- 160 Norm für die Belastungsannahmen, die Inbetriebnahme und die Überwachung der Bauten (1970) mit Teilrevision von Art. 23 Schneelasten (1977)
- 160/1 Belastungsannahmen für Brücken auf Versorgungsrouten - Grundlagen für Transportvorschriften, Richtlinie (1974)
- 160/2 Praktische Massnahmen zum Schutze der Bauwerke gegen Erdbebenwirkung, Empfehlung (1975)
- 160/3 Periodische Untersuchungen der Brücken, Richtlinie (1975)
- 161 Stahlbauten, Norm (1979)
- 162 Norm für die Berechnung, Konstruktion und Ausführung von Bauwerken aus Beton, Stahlbeton und Spannbeton (1968) mit Teilrevision Richtlinie 14 (1981)
- 162/33 Leichtbeton, Richtlinie (1974)
- 162/34 Bruchwiderstand und Bemessung von Stahlbeton- und Spannbetontragwerken, Richtlinie (1976)
- 162/35 Bruchsicherheitsnachweis für Druckglieder, Richtlinie (1976)
- 162/101 Erstmalige Prüfung und laufende Überwachung von Armierungsstahl, Empfehlung (1978)
- 164 Holzbau, Norm (1981)
- 164/7 Holzbau - Leistung und Lieferung, Auszug aus Norm 164 (1981)
- 165 Anwendung von Stenderformen und -listen für die Verarbeitung von Armierungsstäben, Empfehlung (1972)
- Standardformen für Armierungsstäbe (1972) (Karton laminiert)
- 167 Richtlinien für die Baustelleninstallationen, Teil A: Siloanlagen (1956)
- 168 Bedingungen und Messvorschriften für vorfabrizierte Decken- und Wandverkleidungen (1963)
- 170 Bedingungen und Messvorschriften für plastische Dachbeläge (1970)
- 172 Güterwegbau, Empfehlung (1974)
- 175 Schiefer- und Wellplatten aus Asbestzement für Dacheindeckungen, Fassaden- und Deckenverkleidungen, Norm (1973)
- 177 Mauerwerk, Norm (1980)
- 177/1 Bemessung von Mauerwerkswänden unter Druckbeanspruchung, Empfehlung (1983)
- 178 Naturstein-Mauerwerk, Norm (1980)
- 180 Empfehlung für Wärmeschutz im Hochbau (1970)
- 180/1 Winterlicher Wärmeschutz im Hochbau, Empfehlung (1980)
- 180/3 Jährlicher Wärmeverbrauch in Bauten, Empfehlung (1980)
- 180/4 Energiekennzahl, Empfehlung (1982)
- 181 Schallschutz im Wohnungsbau, Norm (1976)
- 181/3 Schallschutz in Bauten: Heizungs-, Lüftungs- und Klimaanlagen, Empfehlung (1982)
- 181/1 Schallschutz und Raumakustik in Schulen, Norm (1979)
- 183 Baulicher Brandschutz, Empfehlung (1974), ergänzt mit Anhang 183/1 "Tiefgaragen" (1975)
- 183/2 Verwendung brennbarer Baustoffe in Gebäuden, Prüfung von Baustoffen und Bauelementen, Empfehlung (1976)

Bitte wenden



Normenwerk

August 1985

- 183/3 Markierung von Fluchtwegen und Ausgängen - Notbeleuchtung, Empfehlung (1977)
- 184 Baureinigungs-Arbeiten, Empfehlung (1972)
- 190 Kanalisationen, Norm (1977)
- 191 Boden- und Felsanker, Norm (1977)
- 192 Pfahlfundationen, Norm (1975)
- 193 Pressvortrieb, Norm (1984)
- 196 Bauführung von Untertagbauten, Empfehlung (1983)
- 198 Untertagbau, Norm (1975)
- 198/1 Tunnel- und Stollenbau im Fels mit Vollvortriebsmaschinen, Empfehlung (1985)
- 199 Erfassen des Gebirges im Untertagbau, Empfehlung (1975)
- 205 Verlegung von unterirdischen Leitungen, Empfehlung (1984)
- 215 Mineralische Bindemittel, Norm (1978)
- 220 Beton-, Stahlbeton- und Spannbeton-Arbeiten an Ort, Leistung und Lieferung, Norm (1975)
- 225 Mauerwerk, Leistung und Lieferung, Norm (1980)
- 226 Naturstein-Mauerwerk, Leistung und Lieferung, Norm (1980)
- 229 Baugruben-Ausführung, Leistung und Lieferung, Empfehlung (1983)
- 230 Stahlbauten, Leistung und Lieferung, Norm (1979)
- 242 Verputzarbeiten und Gipserarbeiten, Norm (1978)
- 244 Kunststein-Arbeiten (Beläge, Verkleidungen, Werkstücke, Terrazobeläge), Norm (1976)
- 246 Naturstein-Arbeiten (Beläge, Verkleidungen, Werkstücke), Norm (1976)
- 248 Platten-Arbeiten (Beläge und Verkleidungen aus Keramik, Glas, Splittermosaik/Casse, Asphaltplattenbeläge), Norm (1976)
- 259 Tapezierer-Arbeiten, Norm (1977)
- 271 Flachdächer mit Bitumen-Dichtungsbahnen, kunststoffmodifizierten Bitumen-Dichtungsbahnen sowie Kunststoff-Dichtungsbahnen, Empfehlung (1976)
- 272 Grundwasserabdichtungen, Empfehlung (1980)
- V278/7 Verputzte Aussenwärmedämmung - Leistung und Lieferung, Empfehlung (1985) in verlängerter Vernehmlassung
- 279 Wärmedämmstoffe, Anforderungswerte und Materialprüfung, Norm (1980)
- 280 Kunststoff-Dichtungsbahnen, Anforderungswerte und Materialprüfung, Norm (1983)
- 281 Polymer-Bitumen-Dichtungsbahnen, Anforderungswerte und Materialprüfung, Norm (1983)
- 320 Vorfabrizierte Betonelemente, Norm (1978)
- 342 Sonnen- und Watterschutzanlagen, Norm (1976)
- 358 Geländer, Brüstungen und Handläufe, Empfehlung (1978)
- 370/0 Aufzüge für die Förderung von Personen und Gütern, Norm (1979)
- 370/01 Wegleitung für die Anwendung der Norm SIA 370/10 (1979) "Aufzüge für die Förderung von Personen und Gütern", (1985)
- 370/24 Hubvorrichtungen für Güter, Norm (1979)
- V 380/1 Energie im Hochbau, Empfehlung (1985) in verlängerter Vernehmlassung
- 380/2 Prüfregeln für die Wärmeleistung von Raumheizkörpern, Empfehlung (1978)
- 380/7 Haustechnik - Ergänzungen zu Norm 118, Norm (1985)
- 381/1 Baustoff-Kennwerte, Empfehlung (1980)
- 381/3 Heizgradtage der Schweiz, Empfehlung (1982)
- 383/2 Einrichtungen für Radio- und Fernsehübertragungen, Empfehlung (1981)
- 384/1 Warmwasser-Zentralheizungen - Technische Anforderungen, Empfehlung (1982)
- 384/2 Wärmeleistungsbedarf von Gebäuden, Empfehlung (1982)
- 384/21 Wärmeleistungsbedarf von Gebäuden - Anwendungsbeispiel (1982)
- 384/4 Kamine für Gebäudeheizung, Querschnittbestimmung, Empfehlung (1982)
- 385 Wassererwärmungsanlagen für Trinkwasser- versorgungen in Gebäuden, Norm (1979)
- 385/1 Anforderungen an das Wasser und an die Wasseraufbereitungsanlagen in Gemeinschaftsbädern, Norm (1982)
- 400 Planbearbeitung im Bauwesen, Empfehlung (1985)
- 405 Planwerk für unterirdische Leitungen, Empfehlung (1985)
- 410 Kennzeichnung für Installationen in Gebäuden - Sinnbilder, Empfehlung (1978), viersprachig, D, F, I, E
- 410/2 Kennzeichnung von Installationen in Gebäuden - Pläne, ausgeführte Installationen, Aussparungen, Empfehlung (1981)
- 411 SI-Einheiten, Anwendung im Bauwesen, Empfehlung (1976)
- 414 Masstoleranzen im Bauwesen, Begriffe, Grundsätze, Anwendungsregeln, Norm (1980)
- 416 Geschossflächen und Reumhalte von Bauten, Empfehlung (1975)

Herausgeber:
Schweizerischer Ingenieur- und Architekten-Verein
Postfach, 8039 Zürich, Telefon 01/2011570

Copyright © 1985 Zurich by SIA
Nachdruck oder anderweitige Vervielfältigungen, auch auszugsweise, nur mit Genehmigung des SIA

Bitte wenden

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in TANZANIA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M		
Codes/regulations	M		
Standards	M		

- 1) Applies in the entire country or federation
2) Applies only in e.g. states or provinces after their decision
3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Ic. Regulations and standards from abroad are used.

- Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents:

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

- | | |
|--|--|
| <p>(1) Organization: <u>Tanzania Bureau of Standards</u>
Address: <u>P.O. BOX 9524
DAR ES SALAAM</u>
Phone: <u>49041</u>
Fax:
Telex:
Main type of regulations: <u>Tanzania Standards</u></p> | <p>(2) Organization: <u>Ministry of Works Building Division</u>
Address: <u>P.O. BOX
DAR ES SALAAM</u>
Phone:
Fax:
Telex:
Main type of regulations: <u>Building Construction</u></p> |
| <p>(3) Organization: <u>Building Research Unit</u>
Address: <u>P.O. BOX 1964,
DAR ES SALAAM</u>
Phone: <u>48106/48589</u>
Fax:
Telex:
Main type of regulations:</p> | <p>(4) Organization:
Address:
Phone:
Fax:
Telex:
Main type of regulations:</p> |

IIb. Bodies providing information on building regulations and standards.

- | | |
|--|---|
| <p>(1) Organization:
Building Research Unit
Address:
P.O. BOX 1964,
DAR ES SALAAM
Phone: 48106/48589
Fax:
Telex:
Main subjects:
Building Construction
Type of service:</p> | <p>(2) Organization:
Tanzania Bureau of Standards
Address:
P.O. BOX 9524
DAR ES SALAAM.
Phone: 49041
Fax:
Telex:
Main subjects:
All types of standards
Type of service:</p> |
|--|---|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|--|--|
| <p>(1) Organization:
Building Research Unit
Address:
P.O. BOX 1964,
DAR ES SALAAM
Phone:
Fax:
Telex:
Main type of documents:
Building Construction</p> | <p>(2) Organization:
Tanzania Bureau of Standards
Address:
P.O. BOX 9524,
DAR ES SALAAM.
Phone: 49041
Fax:
Telex:
Main type of documents:
Tanzania Standards</p> |
| <p>(3) Organization:
Ministry of Works
Address:
Phone:
Fax:
Telex:
Main type of documents:</p> | <p>(4) Organization:
Address:
P.O. BOX
DAR ES SALAAM.
Phone:
Fax:
Telex:
Main type of documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.
(Please state for each document: Title, year of issue, publisher and type of contents)

1. Regulation for Simplified Building Control
Building Research Unit 1978
2. Tanzania Building Regulations
(Draft), Building Research Unit 1981
3. Tanzania Building Regulations
(Draft), Building Research Unit 1988

IIIb. Databases.

- | | |
|---|---|
| <p>(1) Database name:
Building Research Unit
Producer:
BRU
Main contents:</p> | <p>(2) Database name:
Tanzania Bureau of Standards
Producer:
TBS
Main contents:</p> |
|---|---|

IIIc. Other systems of information.

(E.g. periodicals news columns in journals)

IV MOST IMPORTANT BUILDING REGULATIONS
(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (F.g important laws or main code documents)

IVb. Loading: (Including wind, snow and earthquake loads)

1. Loads for Structural Design, 1981
2. Short Code of Practice for design in Earthquake areas, 1974

} Building
Research
Unit

IVc. Concrete:

Short code of practice for design and construction
in reinforced concrete, 1974
Building Research Unit

IVd. Steel:

IVe. Wood:

Symposium on the Use of Local Timber for
Building Vol.I and II, Building Research Unit.

IVf. Foundations:

IVg. Drainage:

IVh. Fire:

IVi. Electrical installations in buildings:

IVj. Water and sewerage:

IVk. Ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.
(E.G. lists of addresses to authorities, organizations
and companies; descriptions; statistics)

Vc. Further reading about building regulations etc.

Questionary completed by:

Ministry of Local Government, Community Development,
Co-operative and Marketing,
Building Research Unit,
P.O. BOX 1964, DAR ES SALAM.

Date: 1989

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in THAILAND (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	M	M
Codes/regulations	M	-	O
Standards	M & O	-	O

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments: Yes No

Central body issued Ministry regulations, some for national and some for locally.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes
 No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Some codes and standards from abroad are used when the national ones are not covered.

Id. Short description of the system of building regulations and related documents.

Building Control Act was issued by the congress. Regulations for building construction are issued by The Ministry of Interior and The Bangkok Metropolitan Administration. For certain civil engineering and special construction works such as bridges, roads, railroads, dams etc. regulations are issued by various government agencies.

The standards and specification in general use are issued by The Thai Industrial Standard Institute (TISI). More standards and specification are on going works by TISI.

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations wch are issuing or adopting building regulations.

- | | |
|---|---|
| <p>(1) Organization: Ministry of Interior & The Congress
Address: Thanon Atsadang Bangkok 10200
Phone: 222-1141-55
Fax:
Telex:
Main type of regulations: Building Contral Act. Ministry regulations</p> | <p>(2) Organization: Bangkok Metropolitan Administration
Address: Thanon Dinso Bangkok 10200
Phone:
Fax:
Telex:
Main type of regulations: Building Code of Bangkok.</p> |
| <p>(3) Organization: The Department of Highways
Address: Thanon Si Ayutthaya Bangkok 10400
Phone: 281-7082
Fax:
Telex:
Main type of regulations: Roads and Bridges</p> | <p>(4) Organization: Thai Industrial Standard Institute
Address: Thanon Phra Ram 6 Bangkok 10400
Phone: 281-7997-9
Fax:
Telex:
Main type of regulations: Thai Industrial Product Standard</p> |

IIb. Bodies providing information on building regulations and standards.

- | | |
|---|--|
| (1) Organization: Office of The Board of the Control of the Engineering and Architectural Profession
Address: Thanon Visudhikasat Bangkok 10200
Phone: 282-2161
Fax:
Telex:
Mainsubjects: All Subjects
Type of service: Question-Answer Service | (2) Organization: Thai Industrial Standard Institute
Address: Thanon Phra Ram 6 Bangkok 10400
Phone: 281-7997-9
Fax:
Telex:
Mainsubjects: Industrial Standard
Type of service: Issued the standard Question-Answer Service |
|---|--|

IIc. Organizations where building regulations can be bought or aquired.

- | | |
|--|--|
| (1) Organization: Nitiwate
Address: 12-14 Thanon Na Pralarn Bangkok 10200
Phone: 222-3742
Fax:
Telex:
Main type of documents: Building Control Act. Ministry regulations (Published in Thai Language) | (2) Organization: Thai Industrial Standard Institute
Address: Thanon Phra Ram 6 Bangkok 10400
Phone: 281-7997-9
Fax:
Telex:
Main type of documents: Thai Industrial Standard (published in Thai Language) |
| (3) Organization: Thai Investment and Society Co., Ltd.
Address: Boonmit Building, 3 th floor Thanon Silom, Bangkok 10500
Phone: 233-9885
Fax:
Telex:
Main type of documents: Building Regulation (For High-Rise Building) | (4) Organization: The Engineering Institute of Thailand Under H.M. The King's Patronage.
Address: Henry Dunant Road Bangkok 5
Phone: 252-6051-2
Fax:
Telex:
Main type of documents: Building Code Requirement for Reinforced Concrete and wooden structures |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.
IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- 1) Compilation of Building Construction laws and Regulations, compiled by Tortrakul Yomnak, Civil Engineering Dept. Chulalongkorn University. Contains to all Thai laws and regulations etc. related to construction (In Thai language).
- 2) Thai Standards Catalogue
Published yearly by TISI, Thai Industrial Standards Institute. Contains to the lists of Thai Industrial Standards.
- 3) Siam Cement Groups, Rule, Regulation, the Building Control Acts and Land Used in Bangkok, 1986.

IIIb. Databases.

- | | |
|---|---|
| (1) Database name: -
Producer: -

Main contents: - | (2) Database name: -
Producer: -

Main contents: - |
|---|---|

IIIc. Other systems of information.

(E.g. periodicals/news columns in journals)

New regulations and standards regularly appearing in
newspapers and periodicals.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Building Control Act 1979
Distribution : Nitivate
- 2) Compilation of Building Construction laws and Regulations, 1980
Distribution : Civil Engineering Department,
Chulalongkorn University.

IVb. Loading: (Including wind, snow and earthquake loads)

Building Control Act 1979 chapter 6.
Distribution : Nitivate

IVc. Concrete:

- 1) Building Code Requirement for Reinforced Concrete Structure, 1979
Distribution : The Engineering Institute of Thailand Under H.M. The
King's Patronage.
- 2) Building Code of Bangkok 1979 chapter 6.

IVd. Steel: Distribution : Nitivate

Building Control Act 1979 chapter 6.

IVe. Wood:

Building Control Act 1979 chapter 6.

IVf. Foundations:

Building Control Act 1979 chapter 6.

IVg. Drainage:

Building Control Act 1979 chapter 7, 8.

IVh. Fire:

Building Control Act 1979 chapter 5.

IVi. Electrical installations in buildings:

Building Control Act 1979 chapter 8.

IVj. Water and sewerage:

IVk. Ventilation:

Building Control Act 1979 chapter 5.

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations
and companies; descriptions; statistics)

Bangkok Metropolis Administration
Thanon Dinso, Bangkok.

Public Works Department
Panfah Bridge, Bangkok

The Association of Thai Contractors
110 Wireless Rd. Bangkok 10500

Vc. Further reading about building regulations etc.

Questionary completed by:

Building Technology Department
Thailand Institute of Scientific and Technological Research
Bangkok 10900, Thailand

Date: 24 March 1989

CIB W57/1986-05-14

QUESTIONNAIRE

Building regulations and standards in UNITED KINGDOM (country)
(ENGLAND & WALES)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional England & Wales	Local (Municipality etc)
Laws		M	M
Codes/regulations		M	M
Standards	0*	0*	0*

* except where compliance is required by law.

(Please mark in appropriate box: M for mandatoy, 0 for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No

Comments:

Central bodies in this case since the legislation is sponsored jointly by Department of the Environment (for England) and Welsh Office (for Wales). It applies in both countries. Inner London has separate building regulations issued by Department of the Environment.

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SRC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

BS and CP are most used (both from BSI see Iib(2)). Represent best practice but are optional. The application can decide which standard is used.

I d. Short description of the system of building regulations and related documents.

Apply to erection, extension, material alteration or change of use of a building. They cover health, safety, welfare. The new (1985) regulations simplify requirements and allow greater flexibility in how the functional requirements are met. Approved Documents giving practical guidance on each Part of the regulations have been issued but are not mandatory. Work may be supervised by the local authority or by an Approved Inspector.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

I I a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization: (2) Organization:

Dept. of the Environment

Address:

2 Marsham Street
LONDON
SW1P 3EB

Phone: 01-212 3434

Telex: 22221

Main type of regulations:

Address:

Phone:

Telex:

Main type of regulations:

(3) Organization: (4) Organization:

Address:

Phone:

Telex:

Main type of regulations:

Address:

Phone:

Telex:

Main type of Regulations:

- I I b .** Bodies providing information about building regulations and standards.
- | | |
|---|---|
| <p>(1) <u>Organization:</u>
Dept. of The Environment
<u>Address:</u>
As IIa(1)

<u>Phone:</u>

<u>Telex:</u> 22221

<u>Main subjects:</u>

<u>Type of service:</u>

Policy, casework on determinations.</p> | <p>(2) <u>Organization:</u>
British Standards Institutio
<u>Address:</u>
Linford Wood
Milton Keynes
Bedfordshire MK14 6LE

<u>Phone:</u> 0908 221166

<u>Telex:</u> 825777BSIMK G

<u>Main subjects:</u>

<u>Type of service:</u>

Produce and sell standards.
Enquiry service.</p> |
|---|---|

I I c . Organizations where building regulations can be bought or acquir

- | | |
|--|--|
| <p>(1) <u>Organization:</u>
H.M.S.O.
<u>Address:</u>
P.O. Box 276
London SW8 5DT
& H.M.S.O. bookshops

<u>Phone:</u> 01-622 3316

<u>Telex:</u> 297138

<u>Main type of documents:</u>

Legislation and approved documents</p> | <p>(2) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> |
| <p>(3) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> | <p>(4) <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>

<u>Telex:</u>

<u>Main type of documents:</u></p> |

I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

- I I I a .** Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

Legislation and approved documents appear in the appropriate H.M.S.O. catalogue.

I I I b . Databases

- | | |
|--|---|
| <p>(1) <u>Database name:</u>
PICA
<u>Producer:</u>
Property Services Agency
<u>Main contents:</u>

Architecture and construction with a U.K. emphasis.</p> | <p>(2) <u>Database name:</u>

<u>Producer:</u>

<u>Main contents:</u></p> |
|--|---|

I I I c . Other systems of information:

- (E.g. periodicals, regularly appearing news columns about regulations in journals).

BUILDING CONTROL (jnl of Inst. of Building Control Officers)
ARCHITECTS JOURNAL
BUILDING
BUILDING TRADES JOURNAL (now Building Today)
+ journals of professional bodies, e.g. RIBA, RICS.

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)
Building Act 1984
Statutory Instrument 1985 No. 1065 Building Regulations
SI 1985 No. 1066 Building (Approved Inspectors, etc.) Regulations
SI 1985 No. 1576 Building (Prescribed Fees) Regulations
SI 1985 No. 1936 Building (Inner London) Regulations

IV b. Loading: (Including wind, snow and earthquake loads)
Approved document A Structure - London : H.M.S.O., 1985
refers to BS 6399 & CP 3 (from BSI)

IV c. Concrete:
Approved document A (as above)
refers to BS 5328, BS 6073, BS 8110 (from BSI)

IV d. Steel:
Approved document A (as above)
refers to BS 449, BS 5950 (from BSI)

IV e. Wood:
Approved document A (as above)
refers to BS 4978, BS 5268 (from BSI)

IV f. Foundations:
Approved document A (as above)
refers to CP 2004 (from BSI)

IV g. Drainage:
Approved document H : Drainage, waste disposal - London:
H.M.S.O., 1985
refers to BS 8301

IV h. Fire:
Approved document B : Fire)
Mandatory means of escape in) London : H.M.S.O., 1985
case of fire.)
refers to BS 476, BS 5588 (from BSI)

IV i. Electrical installations in buildings:

IV j. Water and sewerage:
Approved document H - London : H.M.S.O., 1985

IV k. Ventilation:
Approved document F : Ventilation - London : H.M.S.O., 1985
refers to BS 5720, BS 5250 (from BSI)

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:
Britain : an official handbook published annually by H.M.S.O.
Annual abstract of statistics published annually by H.M.S.O.

V b. Introduction to the construction sector:
(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).
House's guide to the construction industry - Wokingham : Van Nostrand Reinhold (UK).
Current ed. is 9th published 1985

Housing and construction statistics. Published annually by H.M.S.O. and contains statistics for 10 years.

Construction Industry Research and Information Association.
CIRIA guide to sources of construction information - 4th ed. - London : CIRIA, 1984. (5th ed. in preparation).

V c. Further reading about building regulations etc:
A number of commercially published guides are available, e.g.
1) Knights Building Regulations (with approved documents) - Croydon : Knight - 1 Vol. (looseleaf)
2) Guide to the Building Regulations 1985 for England and Wales/A.J. Elder - 8th ed. - London : Architectural Press 1986
3) Guide to building control in inner London/P.H. Pitt - London : Architectural Press, 1987

Questionary completed by:

PSA Library assisted by Department of the Environment
Construction Industry Directorate, Building Regulations Branch

Date: 20 November 1987

QUESTIONNAIRE

Building regulations and standards in UNITED KINGDOM (country) (NORTHERN IRELAND)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

Table with 4 columns: National (Applies in the entire country or federation), Regional Northern Ireland, Local (Municipality etc), and a row for Laws, Codes/regulations, Standards.

* except where compliance is required by law

(Please mark in appropriate box: M for mandatoy, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes [X] No []

Comments:

Sponsored by the Department of the Environment for Northern Ireland.

I c. The regulations and standards which should be used are decided upon from case to case.

[] Yes, in general [] Yes, sometimes

[X] No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, IHVE, IEE...; American: UBC, SEC, BOCA/NBC, ASTM...; French: DTU, NF...; German: DIN, VDI, DVGW...).

Comments:

BS and CP are used. Represent best practice but are optional. The application can decide which standard is used.

I d. Short description of the system of building regulations and related documents.

Apply to erection, extension or material alteration of a building. They cover health, safety and welfare.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization: (2) Organization:

Department of the Environment for Northern Ireland

Address: Address:

Churchill House Victoria Square Belfast BT1 4QW

Phone: 0232 234343 Phone:

Telex: Telex:

Main type of regulations: Main type of regulations:

(3) Organization: (4) Organization:

Address: Address:

Phone: Phone:

Telex: Telex:

Main type of regulations: Main type of Regulations:

I I b. Bodies providing information about building regulations and standards.

- | | | | |
|-----|---|-----|---|
| (1) | <u>Organization:</u>
Department of the
Environment for Northern Ireland
<u>Address:</u>
Churchill House
Victoria Square
Belfast BT1 4QW
<u>Phone:</u> 0232 234343
<u>Telex:</u>
<u>Main subjects:</u>

<u>Type of service:</u> | (2) | <u>Organization:</u>
British Standards Institution
<u>Address:</u>
Linford Wood
Milton Keynes
Beds MK14 6LE
<u>Phone:</u> 0908 221166
<u>Telex:</u> 825777BSIMK G
<u>Main subjects:</u>

<u>Type of service:</u>
Produce and sell standards
Enquiry service |
|-----|---|-----|---|

I I c. Organizations where building regulations can be bought or acquired.

- | | | | |
|-----|---|-----|---|
| (1) | <u>Organization:</u>
H.M.S.O.
<u>Address:</u>
80 Chichester Street
Belfast
BT1 4JY
<u>Phone:</u> 0232 238451
<u>Telex:</u>
<u>Main type of documents:</u> | (2) | <u>Organization:</u>
<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> |
| (3) | <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> | (4) | <u>Organization:</u>

<u>Address:</u>

<u>Phone:</u>
<u>Telex:</u>
<u>Main type of documents:</u> |

I I I INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

I I I a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

Legislation can be found in the appropriate H.M.S.O. catalogue

I I I b. Databases

- | | | | |
|-----|-----------------------|-----|-----------------------|
| (1) | <u>Database name:</u> | (2) | <u>Database name:</u> |
| | <u>Producer:</u> | | <u>Producer:</u> |
| | <u>Main contents:</u> | | <u>Main contents:</u> |

I I I c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, publisher and main contents for each document)

IV a. General: (E.g. important/laws or main code documents)

Statutory Rules 1977 No. 149 Building Regulations (Northern Ireland) as amended by S.R. 1979 No. 79, 1980 No. 86, 1980 No. 332, 1982 No. 81, 1984 No. 295, 1984 No. 343.

IV b. Loading: (Including wind, snow and earthquake loads)

IV c. Concrete:

IV d. Steel:

IV e. Wood:

IV f. Foundations:

IV g. Drainage:

IV h. Fire:

IV i. Electrical installations in buildings:

IV j. Water and sewerage:

IV k. Ventilation:

V BIBLIOGRAPHY

(Suggestions for literature of interest).

V a. General information on the country:

Britain : an official handbook) Published annually
Annual abstract of statistics) by H.M.S.O.

V b. Introduction to the construction sector:

(E.g. Lists of addresses to authorities, organizations and companies; Descriptions, statistics).

V c. Further reading about building regulations etc:

No commercial guides known

Questionary completed by:

PSA Library assisted by Department of the Environment
Construction Industry Directorate, Building Regulations Branch

Date: 20 November 1987

CIB W57/1986-Q5-14

QUESTIONNAIRE

Building regulations and standards in UNITED KINGDOM (country)
(SCOTLAND)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

I a. Level of application of regulations, of concern to construction.

	National (Applies in the entire country or federation)	Regional Scotland	Local (Municipality etc)
Laws		M	
Codes/regulations		M	
Standards		O*	
* except where compliance is required by law			

(Please mark in appropriate box: M for mandatory, O for optional)

I b. Model code issued by central body but adopted locally with or without amendments. Yes No
Comments:

Sponsored by the Scottish Office

I c. The regulations and standards which should be used are decided upon from case to case.

Yes, in general Yes, sometimes

No, national or other regulations and standards always apply for normal projects.

If yes, please state what codes or standards that are used predominantly. (E.g. British: BS, I.H.V.E., I.E.E...; American: UBC, S.E.C., B.O.C.A./N.B.C., A.S.T.M...; French: D.T.U., N.F...; German: D.I.N., V.D.I., D.V.G.W...).

Comments:

BS & CP referred to. Represent best practice but are optional. The application can decide which standard is used.

I a. Short description of the system of building regulations and related documents.

Apply to the erection, extension, material alteration or change of use of a building. They cover health, safety and welfare. Memoranda giving guidance on interpretation are issued.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

II a. National authorities or organizations which are issuing or adopting building regulations.

(1) Organization: (2) Organization:

Scottish Development
Department
Address:

New St. Andrew's House
EDINBURGH
EH1 3SZ

Phone: 031-556 8400

Telex: 727301

Main type of regulations:

Address:

Phone:

Telex:

Main type of regulations:

(3) Organization: (4) Organization:

Address:

Phone:

Telex:

Main type of regulations:

Address:

Phone:

Telex:

Main type of Regulations:

II b. Bodies providing information about building regulations and standards.

- | | |
|--|---|
| <p>(1) <u>Organization:</u>
Scottish Department</p> <p><u>Address:</u>
New St. Andrew's House
EDINBURGH
EH1 39Z</p> <p><u>Phone:</u> 031-556 8400</p> <p><u>Telex:</u></p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u>
Policy, casework on determinations.</p> | <p>(2) <u>Organization:</u>
British Standards Institution</p> <p><u>Address:</u>
Linford Wood
Milton Keynes
Beds. MK14 6LE</p> <p><u>Phone:</u> 0908 221166</p> <p><u>Telex:</u> 825777BSIMK G</p> <p><u>Main subjects:</u></p> <p><u>Type of service:</u>
Produces and sells standards. Enquiry service.</p> |
|--|---|

II c. Organizations where building regulations can be bought or aquired. H.M.S.O.

- | | |
|--|--|
| <p>(1) <u>Organization:</u>
71 Lothian Road
Edinburgh EH3 9AZ
<u>Address:</u></p> <p><u>Phone:</u> 031-228 4181</p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> | <p>(2) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> |
| <p>(3) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> | <p>(4) <u>Organization:</u></p> <p><u>Address:</u></p> <p><u>Phone:</u></p> <p><u>Telex:</u></p> <p><u>Main type of documents:</u></p> |

III INFORMATION SYSTEMS, CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

III a. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and main contents).

Legislation can be found in the appropriate H.M.S.O. catalogue.

III b. Databases

- | | |
|---|---|
| <p>(1) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> | <p>(2) <u>Database name:</u></p> <p><u>Producer:</u></p> <p><u>Main contents:</u></p> |
|---|---|

III c. Other systems of information:

(E.g. periodicals, regularly appearing news columns about regulations in journals).

- BUILDING CONTROL (Jnl of Inst. of Building Control Officers)
- ARCHITECTS JOURNAL
- BUILDING
- BUILDING TRADES JOURNAL (now Building Today)
- + journals of professional bodies

CIB W57/1989-03-01
QUESTIONNAIRE

Building regulations and standards in United States (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.

(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	State Regional (2)	Local (3)
Laws			
Codes/regulations		m	m
Standards		m	m

Standards man-
atory when their use
is directed by the
code

- 1) Applies in the entire country or federation
- 2) Applies only in e.g. states or provinces after their decision
- 3) Applies only in e.g. municipalities after local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

Yes No

There are three organizations which have developed model codes:

- 1) Building Officials and Code Administrators International
- 2) International Conference of Building Officials
- 3) Southern Building Code Congress International

Publication lists are available from each of the organizations.

Ic. Regulations and standards from abroad are used.

Yes, in general Yes, sometimes

No, national regulations and standards always apply

(If yes, please state what codes or standards that are used predominantly. E.g. British BS; American UBC, ASTM....)

Comments:

Id. Short description of the system of building regulations and related documents.

There is no national building code in the U.S. Many states have statewide codes; other states have delegated the authority to develop codes to local governments. The majority of statewide or local codes are based on one of three model codes (see question IIa for names and addresses of the three model code organizations) These model codes are developed by consensus-oriented, non-profit organizations. They are revised periodically.

The technical base of all three model codes is the national voluntary standards they incorporate. These standards are developed by trade associations, engineering societies, testing laboratories, building code organizations, government agencies, manufacturers and national standards organizations. The list of standards producing organizations is very lengthy. Some model code organizations publish a compilation of standards referenced in their model code. (see IIIa)

II INFORMATIONS CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.

Three model code organizations:

- | | |
|---|--|
| (1) Organization:
Building Officials and Code Administrators International
Address: Administrators International
4051 W. Flossmore Road
Country Club Hills, IL 60477-5795 | (2) Organization:
International Conference of Building Officials
Address: Building Officials
5360 South Workman Mill Road
Whittier, CA 90601 |
|---|--|

Phone:
(312)799-2300
Fax:

Phone:
(213)699-0541
Fax:

Telex:

Telex:

Main type of regulations:

Main type of regulations:

- (3) Organization:
Southern Building Code Congress
Address: International
900 Montclair Road
Birmingham, AL 35213-1206

Phone:
(205)591-1853
Fax:

Telex:

Main type of regulations:

- (4) Organization:
National Fire Protection Association
Address:
Batterymarch Park
Quincy, MA 02269

Phone:
(617)770-3000
Fax:

Telex:

Main type of regulations:

Ib. Bodies providing information on building regulations and standards.

- | | |
|---|---|
| <p>(1) Organization:
National Institute of Building
Address: Sciences</p> <p>1201 L Street, N.W.
Washington, D.C. 20005</p> <p>Phone:
(202)289-7800</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:</p> <p>Type of service:
Advisory organization whose primary
function is to foster improvements
in the building regulatory environment. 1989 is in 5 volumes</p> | <p>(2) Organization:
National Conference of States
on Building Codes and Standards
Address:</p> <p>481 Carlisle Drive
Herndon, VA 22070</p> <p>Phone:
(703)437-0100</p> <p>Fax:</p> <p>Telex:</p> <p>Main subjects:</p> <p>Type of service:
publishes <u>Directory of Building
Codes and Regulations</u>, 5th ed.,
1989 is in 5 volumes</p> |
|---|---|

Iic. Organizations where building regulations can be bought or aquired.

*From model code organizations, see IIA

- | | |
|---|--|
| <p>(1) Organization:
American National Standards
Institute (ANSI)
Address:</p> <p>1430 Broadway
New York, NY 10018</p> <p>Phone:
(212)642-4900</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:
ANSI coordinates standards
activities. Many ANSI approved
standards are cited in codes.</p> | <p>(2) Organization:
American Society for Testing and
Materials (ASTM)
Address:</p> <p>1916 Race Street
Philadelphia, PA 19103-1187</p> <p>Phone:
(215)299-5400</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:
Many ASTM standards are
cited in codes. Publishes
<u>ASTM standards in building
codes</u>, 26th ed., 1989</p> |
| <p>(3) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:</p> | <p>(4) Organization:
Address:</p> <p>Phone:</p> <p>Fax:</p> <p>Telex:</p> <p>Main type of
documents:</p> |

III CATALOGUES, INDEXES, DATABASES ETC GIVING REFERENCE TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- 1) List of codes and other publications are available from each model code organization.
- 2) Standards cited by some codes are compiled:
 - a. Uniform Building Code Standards, International Conference of Building Officials.
 - b. ASTM standards in building codes, 26th ed. 1989. ISBN: 0-8031-1213-0 American Society for Testing and Materials.
- 3) Directory of Building Codes and Regulations, 5th ed. 1989. National Conference of States on Building Codes and Standards

IIIb. Databases.

- | | |
|--|--|
| <p>(1) Database name:
Standards and Specifications
Producer:
National Standards Association</p> <p>Main contents:
Citations to government &
industry standards.
Available on Dialog,
ESA-IRS</p> <p>(3) Database name: Code Control
Producer: Codeworks Corp
1225 19th Street, NW Suite 750
Washington, D.C. 20036
Main Contents: Summaries of model codes, state codes from 18 states,
local codes for 52 cities. Available through the producer.</p> | <p>(2) Database name:
IHS International Standards and
Producer: Specifications
Information Handling Services</p> <p>Main contents:
Citations to U.S., other
national and international
standards.
Available on Dialog, BRS</p> |
|--|--|

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

- Building Standards, published by International Conference of Building Officials.
- Southern Building, published by Southern Building Code Congress International.
- NCSBCS News, Published by National Conference of States on Building Codes and Standards.
- BOCA Magazine, published by Building Officials and Code Administrators International.

IV MOST IMPORTANT BUILDING REGULATIONS
(Please state title, year of issue, publisher and main contents for each document)

IVa. General: (E.g important laws or main code documents)

- 1) Model Code Organizations (seeIIa)
- 2) American National Standards Institute (ANSI)
1430 Broadway
New York, New York 10018
- 3) American Society for Testing and Materials (ASTM)
1916 Race Street
Philadelphia, Pennsylvania 19103-1187

IVb. Loading: (Including wind, snow and earthquake loads)

Minimum design loads for buildings and other structures.
ANSI A58.1-1982

IVc. Concrete:

ACI Manual of Concrete Practice, revised annually
P.O. Box 19150 American Concrete Institute
Redford Station
Detroit, Michigan 48219

IVd. Steel: Publications from:

- 1) American Institute of Steel Construction
400 N. Michigan Avenue
Chicago, Illinois 60611-4185
- 2) American Iron and Steel Institute
1133 15th Street, NW
Washington, D.C. 20005
- 3) Metal Building Manufacturers Association
1230 Keith Building
Cleveland, OH 44115

IVe. Wood:

Standards published by:
American Institute of Timber Construction
11818 S.E. Mill Plain Blvd., Suite 415
Vancouver, Washington 98684

IVf. Foundations: Their Timber Construction Manual is published by John Wiley & Sons.
ISBN: 0-471-82758-4, 3rd ed., 1986.

SEE MODEL CODES

IVg. Drainage:

SEE MODEL CODES

IVh. Fire:

National Fire Codes, revised regularly
National Fire Protection Association
Batterymarch Park,
Quincy, Massachusetts 02269

IVi. Electrical installations in buildings:

National Electrical Codes, revised regularly
National Fire Protection Association
Batterymarch Park
Quincy, Massachusetts 02269

IVj. Water and sewerage:

Uniform Plumbing Code. International Association of
Plumbing and Mechanical Officials
20001 Walnut Dr. South
Walnut, California 91789-2825

IVk. Ventilation:

Standards published by: American Society of Heating
Refrigerating and Air-Conditioning Engineers, Inc.
1791 Tullie Circle, NE
Atlanta, Georgia 30329

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

1) United States Government Manual. Annual. For sale by
U.S. Government Printing Office
Washington, D.C. 20402

2) Statistical Abstract of the United States. Annual. For sale by
U.S. Government Printing Office, Washington, D.C. 20402

Vb. Introduction to the construction sector.

(E.G. lists of addresses to authorities, organizations
and companies; descriptions; statistics)

- 1) Directory of national trade associations, professional societies,
and labor unions of the construction and building materials
industries. Construction Review, v.33, #5, Sept/Oct 1987 p. 2-27.
- 2) Construction outlook for 1989. Construction Review, v.34, #6, Nov/Dec
1988, p. 3-15.
- 3) Trade journals and professional periodicals of the U.S. construction
and building materials industries. Construction Review, v.31, #1,
Jan/Feb 1985, p. 4-30.
- 4) Quarterly cost report, published in a March, June, Sept, Dec, Issue
of ENR (Engineering News Record)
- 5) Each issue of Construction Review contains statistical information.

Vc. Further reading about building regulations etc.

- 1) Barris, James P. An insider's view: Building codes and standards.
Consulting Engineer, June 1983, p. 80-85.
- 2) Directory of building codes and regulations, volume I, Code Primer,
5th ed., 1989. National Conference of States on Building Codes and Standards

Questionary completed by:

Martha A. Blake
Librarian
U.S. Army Construction Engineering Research Lab
P.O. Box 4005
Champaign, Illinois 61824-4005

Date:

22 May 1989

QUESTIONNAIRE

Building regulations and standards in YUGOSLAVIA (country)

I. INTRODUCTION TO THE SYSTEM OF BUILDING REGULATIONS.

Ia. Level of application of regulations of concern to construction.
(Please mark in appropriate box: M for mandatory, O for optional)

	National (1)	Regional (2)	Local (3)
Laws	M	M	M
Codes/regulations	M	M	M
Standards	M & O	-	-

- 1) Applies throughout the entire country or federation
 2) Applies only in states or provinces subject to their decision
 3) Applies only in municipalities subject to local decision

Ib. Model code issued by central body but adopted locally with or without amendments.

Comments:

 Yes NoIc. Regulations and standards from abroad are used. Yes, in general Yes, sometimes No, national regulations and standards apply exclusively

(If yes, please state which codes or standards are used predominantly. E.g. British Standards BS; American UBC, ASTM....)

Comments:

American, german
ASTM, DIN, VDI, DVGW, BS, ENId. Brief description of the system of building regulations and related documents.

National standards JUS are published by National Standards Body: Savzni Zavod za Standardizaciju, (SZS).
 Regulations for special construction works such as bridges, roads, airports are issued by some governmental or special agencies.

II INFORMATION CENTRES AND AUTHORITIES DEALING WITH BUILDING REGULATIONS.

IIa. National authorities or organizations which are issuing or adopting building regulations.(1) Savezni zavod za
standardizaciju (SZS)
Organization:Address: 11000 Beograd,
Slobodana Penezića
Kreuna 35Phone: 011/644-066
Fax:
Telex:Main type of
regulations: Standards(3)
Organization:

Address:

Phone:
Fax:
Telex:Main type of
regulations:(2)
Organization:

Address:

Phone:
Fax:
Telex:Main type of
regulations:(4)
Organization:

Address:

Phone:
Fax:
Telex:Main type of
regulations:

IIb. Bodies providing information on building regulations and standards.

(1)	(2)
Organization: Savezni zavod za standardizaciju	Organization: Centralna tehniška ispitivaonica
Address: 11000 Beograd Slobodan Penesića Krcuna 35	Address: 61000 Ljubljana, Tomšičeva 7
Phone: 011/644-066	Phone: 061/214-080
Fax:	Fax: 061/214-108
Telex:	Telex: 31625 YU CTX
Main subjects: Building materials, construction, foundations etc.	Main subjects:
Type of service: catalogue on floppy disks	Type of service: Information on request

IIc. Organizations from which building regulations are available.

(1)	(2)
Organization: Savezni zavod za standardizaciju	Organization: Graotevinska Knjiga
Address: 11000 Beograd Slobodan Penesića Krcuna 35	Address: 11000 Beograd Narodnog fronta 14
Phone: 011/644-066	Phone: 011/646-170
Fax:	Fax:
Telex:	Telex:
Main type of documents: National standards, JUS	Main type of documents: Building regulations issued by governmental agencies
(3)	(4)
Organization: NOLIT	Organization:
Address: 11000 Beograd Terasija 21	Address:
Phone: 011/337-334	Phone:
Fax:	Fax:
Telex:	Telex:
Main type of documents: Some building regulations	Main type of documents:

III CATALOGUES, INDEXES, DATABASES ETC FEATURING REFERENCES TO BUILDING REGULATIONS.

IIIa. Published or unpublished lists or catalogues.

(Please state for each document: Title, year of issue, publisher and type of contents)

- Katalog jugoslovenskih standardov 1989 SZS (see IIa.1) Yugoslav national standards including building standards.
- Register veljavnih propisov SFRJ in SR Slovenije 1986. CGP Delo - TOZD Gospodarski vestnik, Ljubljana 1986. Index of regulations issued by government agencies including building regulations.

IIIb. Databases.

(1)	(2)
Database name: JUS	Database name:
Producer: SZS (see IIa. 1)	Producer:
Main contents: Complete set of Yugoslave national standards (base is not completed yet)	Main contents:

IIIc. Other systems of information.

(E.g. periodicals, news columns in journals)

1. JUS standardizacija (Journal with news columns including regulations for building construction)
2. Uradni list SFRJ in SRS (National and Regional Official Gazets)

IV MOST IMPORTANT BUILDING REGULATIONS

(Please state title, year of issue, source and main contents for each document)

IVa. General: (E.g important laws or main code documents)

JUS U. A0. 002 to U. A9. 009 Yugoslav national standards issued by SZS in 1982, 1983, 1985, comprising architectural drawings, modular coordination etc.

IVb. Loading: (Including live loads, wind, snow and earthquake loads)

1. PTP 2 Design of loads in buildings, 1948. Issued by former Federal Department of Building.
2. PTP 12 Building construction in seismic areas, 1964.

IVc. Concrete:

PBAB Concrete and reinforced concrete issued by Federal secretariat of economy 1971.

IVd. Steel:

Tehnički propisi za noseće čelične konstrukcije. Steel structures static loaded. Issued by Federal secretariat of industry in 1957-1986 (Ca 15 regulations)

IVe. Wood:

PTP 8 Wood constructions issued by former Federal Department of Building in 1947.

Wooden Roofs 1947 (Same publisher)

IVf. Foundations:

Pravilnik o teh. normativima za projektovanje na temeljenju građevinskih objekta. Design and performance of foundations issued by Federal secretariat of economy in 1974.

IVg. Drainage:IVh. Fire:

JUS U. J1. 010 to J1. 240 Yugoslav national standards issued by SZS (national standards body) in the years 1973, 1976, 1981

IVi. Electrical installations in buildings:

Pravilnik o teh. merama za izvođenje elektrenergetskih instalacij v zgr.
Electrical installations in dwellings issued by Federal secretariat of economy in 1974.

IVj. Water and sewerage:IVk. Heating and ventilation:

JUS U. C2. 200 to U.C2 202
Yugoslav national standards issued by SZS (see II.a.1) in 1971

V BIBLIOGRAPHY

(Suggestions for literature of interest)

Va. General information on the country.

Yugoslavia today, Zagreb, Spekter 1978

Vb. Introduction to the construction sector.

(E.g. lists of addresses of authorities, organizations and companies; descriptions; statistical data)

Privredni adresar FNRJ 1985 (Trade directory of Yugoslavia), Beograd, Nova trgovina. Directory includes building organizations and companies.

Vc. Further reading about building regulations etc.

Yugoslavia, Plan for a Yugoslav Scientific-technical network. Paris, UNESCO.

System of scientific and technical information of Yugoslavia. Feasibility study.

Questionnaire completed by:

(1986)

31.5.1989

Leske Zorka, librarian
Centralna tehniška knjižnica
Univerza Edvarda Kardelja
Ljubljana, Tomšičeva 7

Date:

INDEX

- ABNT, 26
 ACI Manual, 286
 ACI 318, 135
 AFNOR, 94
 air conditioning, 31
 AJNSI, 284
 Algeria, 1
 approvals, 60
 Approved document, 264
 Architects Journal, 267
 ARIANE, 95
 ASHRAE, 287
 ASTM, 284
 atria, fire, 11
 AUBRCC, 9
 Australia, 7
 Austria, 13
 Bauinformation, Wissenschaft
 und Technik, 102
 BCA, 7
 Belgium, 20
 BHRC, 138
 Biuletyn PKNMiJ, 225
 BOCA, 282
 BOCA Magazine, 285
 BR 82, 59
 BRS 85, 59
 BS, 264
 BSI, 266
 BSL, 164
 BSLCO, 164
 Building, 267
 Building Trades Journal, 267
 Building Control, 267
 Building Standards
 (ICBO), 285
 BYGGDOK, 242
 Byggedata, 65
 BYGINF, 65
 Canada, 32
 CATED, 96
 CCTG, 94
 CEDITEC, 48
 CEI, 155
 CEN, 47
 CGSB, 34
 China, 40
 CINAN, 48
 civil defence, 60
 CMEA, 123
 CNERIB, 2
 CNR, 155
 COBRACON, 27
 COMECON, 46
 Construction Review, 287
 CP, 264
 CRB, 247
 CRESME, 159
 CSA, 34
 CSIRO, 9
 CSR, 53
 CSTB, 95
 CTC, 2
 Cuba, 46
 Czechoslovakia, 52
 DDR, 99
 Denmark, 58
 DIF-norms, 60
 DIN, 85
 DIN-Anzeiger, 84
 DIN-Mitteilungen, 84
 DITR, 83
 DTU, 94
 Edilfile, 157
 Egypt, 69
 EN, 123
 England, 264
 ENR, 287
 Ethiopia, 75
 ETV, 103
 Finland, 87
 FINLEX, 90
 FNB-CATED, 95
 France, 93
 FRG, 81
 gas-regulations, 60
 GATT database, 65
 GBJ, 44
 Germany, GDR, 99
 Germany, FRG, 81
 Ghana, 110
 Greece, 117
 HMSO, 266
 Housing, 37
 Hungary, 123
 IBN, 21
 ICBO, 282
 Iceland, 129
 ICITE, 157
 INAPI, 2
 INMETRO, 26
 INTEC, 29
 IPT, 28
 Iran, 135
 Iraq, 142
 IRB, 83
 IS, 152
 ISIRI, 138
 ISO, 123
 Israel, 148
 IST, 133
 Italy, 154
 Japan, 160
 JGJ, 45
 JUS Standardizacija, 291
 JUS, 289
 Kenya, 167
 Korea, 173
 KS, 171
 LNEC, 229
 LPO, 91
 LVI-RYL, 92
 Malawi, 180
 MATI, 151
 MBS, 183
 Mexico, 186
 MI, 128
 MICONS, 51
 Moniteur, Le, 95
 MOPU, 235
 MSZ, 127
 MTCC, 124
 National Fire Code, 36
 National Building Code, 36
 NBC, 33
 NBC/NFC News, 35
 NBR, 26
 NBTS, 9
 NCSBCS News, 285
 Netherlands, The, 192
 New Zealand, 198
 NFC, 33
 NFPA, 283
 NNI, 194
 NOLIT, 290
 NORIANE, 95
 Normalización, 49
 Normalizacja, 225
 Northern Ireland, 270
 Norway, 210
 NR 1, 241
 NSCB, 220
 Nya Byggregler, 243
 Nybyggnadsregler, 242
 NZS, 199, 202
 Philippines, 216

-IV-

PICA, 267
PNS, 220
Poland, 222
Portugal, 228
RakMK,, 91 90
RIBA, 267
RICS, 267
RIL, 88
RIL,91
RT Information File, 90
RTS, 90
RYL 90, 91
SAA, 8
SBC, 282
Scotland, 276
SEN, 51
septic tanks, 31
SETI, 92
SEV, 247
SFS, 244
SFS, 88
SFS-tiedotus, 90
SI, 268
SIA, 247, 250
Southern Building (SBC), 285
Spain, 234
SPO, 91
Standardisierung
im Bauwesen, 102
Statutory Instrument, 268
STEV-FS, 245
STS, 23
Sweden, 240
Switzerland, 246
SZS, 289
Tanzania, 252
TGL, 103
Thailand, 258
theatres, fire, 11

TISI, 259
UBC, 285
UNI, 155
Uniform Plumbing Code, 12
United Kingdom, 264
UNM, 54
UPC, 287
Uradni list SFRJ in SRS, 291
URS, 53
USA, 282
VDI-Mitteilungen, 84
VNG, 193
VOB, 82
Wales, 264
Yugoslavia, 288
ÖNORM, 16