STATUTORY INSTRUMENTS

1974 No. 1944

BUILDING AND BUILDINGS

The Building (Second Amendment) Regulations 1974

Made - - - -	*22nd November* 1974
Laid before Parliament	*9th December* 1974
Coming into Operation	*31st January* 1975

The Secretary of State for the Environment, in exercise of the powers conferred by sections 61 and 62 of the Public Health Act 1936**(a)**, as amended by section 11 of and Part III of Schedule 1 to the Public Health Act 1961**(b)**, and section 4 of the Public Health Act 1961 and now vested in him **(c)** and of all other powers enabling him in that behalf, after consultation with the Building Regulations Advisory Committee and such other bodies as appear to him to be representative of the interests concerned, as required by section 9(3) of the Public Health Act 1961, hereby makes the following regulations:—

Title and commencement

1. These regulations may be cited as the Building (Second Amendment) Regulations 1974 and shall come into operation on 31st January 1975.

Interpretation

2.—(1) In these regulations, unless the context otherwise requires—

(*a*) "the principal regulations" means the Building Regulations 1972**(d)** as amended by the Building (First Amendment) Regulations 1973**(e)**, and other words and expressions have the same meaning as in the principal regulations; and

(*b*) any reference to a Part, regulation or schedule shall be construed as a reference to a Part or regulation of, or schedule to, the principal regulations.

(2) The Interpretation Act 1889**(f)** shall apply for the interpretation of these regulations as it applies for the interpretation of an Act of Parliament.

Transitional provisions

3.—(1) These regulations shall not apply to any work which was completed before the date of the coming into operation of these regulations.

(2) These regulations, except regulation 9, shall not apply to any work which was completed after that date in accordance with plans deposited with the local authority before that date, with or without any departure or deviation from those plans.

(3) For the purposes of this regulation "work" means the erection of a building, the alteration or extension of a building, the execution of works, the installation of a fitting or the making of a material change of use.

(a) 1936 c. 49.
(b) 1961 c. 64.
(c) S.I. 1970/1681 (1970 III, p. 5551).
(d) S.I. 1972/317 (1972 I, p. 1057).
(e) S.I. 1973/1276 (1973 II, p. 3839).
(f) 1889 c. 63.

Amendment of the principal regulations

4. The principal regulations shall be amended as provided in these regulations.

5. For regulation D5 (Deemed-to-satisfy provision for reinforced concrete foundations) there shall be substituted the following regulation:

"*Deemed-to-satisfy provisions for reinforced concrete foundations*

D5.—(1) *Subject to the provisions of paragraph* (2), *if the foundations of a building are constructed wholly or in part of reinforced concrete, the requirements of regulation D3*(*a*) *shall be deemed to be satisfied, in so far as those parts of the foundations constructed of reinforced concrete are concerned, if the work complies with either—*

(*a*) *CP 110: Part 1: 1972 (as read with CP 110: Part 2: 1972 and CP 110: Part 3: 1972): or*

(*b*) *CP 114: Part 2: 1969.*

(2) *The recommendations of the publications specified in paragraph* (*1*)(*a*) *shall not be used in conjunction with those of the publication specified in paragraph* (*1*)(*b*).".

6. For regulations D11 (Deemed-to-satisfy provision for structural work of reinforced concrete), D12 (Deemed-to-satisfy provision for structural work of prestressed concrete) and D13 (Deemed-to-satisfy provision for structural work of precast concrete) there shall be substituted the following regulation:

"*Deemed-to-satisfy provisions for structural work of reinforced, prestressed or plain concrete*

D11.—(1) *Subject to the provisions of paragraph* (*2*), *the requirements of regulation D8 shall be deemed to be satisfied as to any structural work (whether cast in-situ or precast) of reinforced, prestressed or plain concrete if the work complies with—*

(*a*) *CP110: Part 1: 1972 (as read with CP 110: Part 2: 1972 and CP110: Part 3: 1972); or*

(*b*) *in the case of work of reinforced, prestressed or precast concrete, CP114: Part 2: 1969, CP 115: Part 2: 1969 or CP116: Part 2: 1969 (as read with CP116: Addendum No. 1: 1970) whichever is appropriate.*

(2) *The recommendations of the publications specified in paragraph* (*1*)(*a*) *shall not be used in conjunction with those of any publication specified in paragraph* (*1*)(*b*).".

7. For regulation D14 (Deemed-to-satisfy provisions for structural work of timber) there shall be substituted the following regulation:

"*Deemed-to-satisfy provisions for structural work of timber*

D14. *The requirements of regulation D8 shall be deemed to be satisfied as to any structural work of timber if—*

(*a*) *the work complies with CP112: Part 2: 1971; or*

(*b*) *in the case of work which—*

(*i*) *consists of a floor, ceiling or roof of a house which has not more than three storeys and is intended to be occupied by one family only; and*

(*ii*) *includes any timber member within the meaning of Schedule 6, that member complies with the rules contained in that schedule and the work in all other respects complies with CP112: Part 2: 1971; or*

(*c*) *in the case of work which consists of a roof of trussed rafter construction, the work complies with CP112: Part 3: 1973.*".

8. For regulation D21 (Deemed-to-satisfy provision for the structure of certain buildings utilising large precast concrete panels) there shall be substituted the following regulation:

"*Deemed-to-satisfy provisions for the structure of certain buildings constructed of reinforced, prestressed or plain concrete*

D21.—(1) *Subject to the provisions of paragraphs (2) and (3), if the structure of a building consists of work (whether cast in-situ or precast) of reinforced, prestressed or plain concrete, the provisions of regulation D19 shall be deemed to be satisfied if—*

(a) the work complies with the recommendations relating to the effect of misuse or accident in Section 2 of CP110: Part 1: 1972 and with all relevant recommendations relating to the provision of ties in that publication; or

(b) in the case of work of reinforced, prestressed or precast concrete, the work complies with the recommendations relating to the effect of misuse or accident in clause 301 of CP114: Part 2: 1969, CP115: Part 2: 1969 or CP116: Part 2: 1969 (as read with CP116: Addendum No. 1: 1970) whichever is appropriate and with all relevant recommendations relating to the provision of ties in that publication.

(2) *The recommendations of the publication specified in paragraph (1)(a) shall not be used in conjunction with those of any publication specified in paragraph (1)(b).*

(3) *If, for the purposes of regulation D11, reliance is placed on any one of the publications referred to in paragraph (1) of this regulation, then reliance may be placed only on that publication for the purposes of this regulation.*

(4) *For the purposes of CP116: Part 2: 1969 and CP116: Addendum No. 1: 1970 the building shall be classified as a Group I structure.*".

9. After regulation D21 as substituted by regulation 8 of these regulations there shall be inserted the following regulation:

"*Use of high alumina cement for structural work*

D22.—Regulation B2 and the deemed-to-satisfy provisions in this Part shall not apply in relation to structural work, including foundations, in which high alumina cement is used.".

10. In regulation E5 (Fire resistance of elements of structure) as substituted by the Building (First Amendment) Regulations 1973, there shall be substituted for the proviso to paragraph (4)(*b*)(ii) the following proviso:

"Provided that any beam or column (whether or not it forms part of a structural frame) which is within or forms part of a wall, and any column which gives support to a wall or gallery, shall have fire resistance of not less than the minimum period, if any, required by these regulations for that wall or that gallery;".

11. There shall be substituted for Part F (Thermal Insulation) the Part set out in Schedule 1 to these regulations.

12. There shall be substituted for Schedule 6 the schedule set out in Schedule 2 to these regulations.

13. There shall be substituted for Schedule 11 the schedule set out in Schedule 3 to these regulations.

14. In Schedule 13—

(*a*) in the heading to the schedule there shall be substituted for the word "First" and the date "1973" the word "Second" and the date "1974";

(*b*) in Table A—

(i) there shall be substituted for the entries relating to BS 881 & 589: 1955 and BS 1297: 1970 the entries set out in Schedule 4 to these regulations; and

(ii) there shall be added the entries relating to BS 4978: 1973 set out in that schedule; and

(*c*) in Table B—

(i) the entries relating to CP112: 1952 shall be omitted;

(ii) there shall be substituted for the entries relating to CP112: Part 2: 1971, CP114: Part 2: 1969, CP115: Part 2: 1969, CP116: Part 2: 1969 and CP116: Addendum No. 1: 1970 the entries set out in Schedule 4 to these regulations; and

(iii) there shall be added the entries relating to CP110: Part 1: 1972, CP110: Part 2: 1972, CP110: Part 3: 1972 and CP112: Part 3: 1973 set out in that schedule.

Regulation 11

SCHEDULE 1

PART TO BE SUBSTITUTED FOR PART F (THERMAL INSULATION) OF THE PRINCIPAL REGULATIONS

PART F

THERMAL INSULATION

Application of Part F

F1.—(1) Subject to the provisions of paragraph (2), this Part shall apply to any building, or part of a building, which is intended to be used as a dwelling.

(2) This Part shall not apply to any external wall, floor or roof of any part of a dwelling which consists of a shed or store entered from outside or of a garage, boat-house, conservatory or porch.

Interpretation of Part F

F2.—(1) In this Part and in Schedule 11—

"dwelling" means a house, flat or maisonette;

"partially ventilated space" means a space which—

(*a*) is either—

(i) a passage, stairway or other common space which is not part of, but adjoins, a dwelling; or

(ii) a part of a dwelling which consists of a shed or store entered from outside or of a garage, boathouse, conservatory or porch; and

(*b*) is ventilated by means of permanent vents having an aggregate area not exceeding 30% of its wall boundary area;

"perimeter walling" means those walls which together enclose all parts of a dwelling other than a partially ventilated space or a ventilated space;

"permanent vent" means an opening or duct which communicates with the external air and is designed to allow the passage of air at all times;

"U value" means thermal transmittance coefficient, that is to say, the rate of heat transfer in watts through $1m^2$ of a structure when the combined radiant and air temperatures at each side of the structure differ by 1°C and is expressed in $W/m^2°C$;

"ventilated space" means a space which—

(*a*) is either—

(i) a passage, stairway or other common space which is not part of, but adjoins, a dwelling; or

(ii) a part of a dwelling which consists of a shed or store entered from outside or of a garage, boathouse, conservatory or porch; and

(*b*) is ventilated by means of permanent vents having an aggregate area exceeding 30% of its wall boundary area;

"wall boundary area" means the total superficial area of all walling, including any opening, bounding a partially ventilated space or a ventilated space; and

"window opening" means any structural opening which is provided for a window irrespective of its size and function or for a hinged or sliding door or panel having a glazed area of $2m^2$ or more.

(2) For the purposes of this Part—

(*a*) unless the context otherwise requires, any reference to a dwelling is a reference solely to those parts of a dwelling which are enclosed by perimeter walling;

(*b*) any part of a roof which has a pitch of 70° or more shall be treated as an external wall; and

(*c*) any floor which is so situated that its upper surface is exposed to the external air shall be treated as a roof in relation to that part of the building beneath it.

Maximum U value of walls, floors, roofs and perimeter walling

F3.—(1) The U value of any part of a wall, floor or roof which encloses a dwelling and is described in column (1) of the Table to this regulation (including surface finishes thereof and excluding any openings therein) shall not exceed the appropriate value specified in column (2) of that Table.

(2) The calculated average U value of perimeter walling (including any opening therein) shall not exceed 1·8.

(3) For the purposes of calculating the average U value of perimeter walling—

(*a*) the U value of any wall between a dwelling and another dwelling, or between a dwelling and an internal space which is within the same building and not ventilated by means of permanent vents, shall be assumed to be 0·5;

(*b*) the U value of a window opening shall be assumed to be 5·7 if it has single glazing and 2·8 if it has double glazing; and

(*c*) any other opening shall be assumed to have a U value equivalent to that of the wall in which it is situated.

TABLE TO REGULATION F3

(Maximum U value of walls, floors and roofs)

Element of building (1)	Maximum U value of any part of element (in $W/m^2°C$) (2)
1. External wall	1·0
2. Wall between a dwelling and a ventilated space	1·0
3. Wall between a dwelling and a partially ventilated space	1·7
4. Wall between a dwelling and any part of an adjoining building to which Part F is not applicable	1·7
5. Wall or partition between a room and a roof space, including that space and the roof over that space	1·0
6. External wall adjacent to a roof space over a dwelling, including that space and any ceiling below that space	1·0
7. Floor between a dwelling and the external air	1·0
8. Floor between a dwelling and a ventilated space	1·0
9. Roof, including any ceiling to the roof or any roof space and any ceiling below that space	0·6

Deemed-to-satisfy provisions regarding thermal insulation

F4.—(1) *The requirements of regulation F3(1) relating to the U value of any part of a wall, floor or roof shall be deemed to be satisfied if the wall, floor or roof is constructed in accordance with a specification contained in Part I, II or III respectively of Schedule 11.*

(2) The requirements of regulation F3(2) relating to the average U value of perimeter walling shall be deemed to be satisfied if any one of the conditions prescribed in rule 2 of Part IV of Schedule 11 is satisfied.

Regulation 12

SCHEDULE 2

SCHEDULE TO BE SUBSTITUTED FOR SCHEDULE 6 TO THE PRINCIPAL REGULATIONS

Regulation D14 (*b*)

SCHEDULE 6

RULES FOR DETERMINING THE DIMENSIONS OF CERTAIN TIMBER MEMBERS

Interpretation of Schedule 6

1. In this Schedule—

(a) "flat roof" includes a roof the pitch of which is 10° or less to the horizontal;

"spacing" means the distance between the centres of any two adjacent timber members of the same type, measured in a plane parallel to that plane of the floor, ceiling or roof structure of which each such member forms part;

"span" means the distance between the centres of any two adjacent bearings or other forms of support given to a timber member, measured in a plane parallel to the plane of the floor, ceiling or roof structure of which that member forms part; and

"timber member" means a piece of solid timber of any of the types more particularly specified in the headings to the Tables to this schedule; and

(b) standard names in accordance with BS 881 & 589:1955 are used.

Application of Schedule 6

2. The dimensions of a timber member may be determined by reference to the appropriate Table to this schedule if—

(a) the imposed load to be sustained by the floor, ceiling or roof of which the member forms part does not exceed the load specified in sub-paragraph (a), (b) or (c) of regulation D2(3) whichever is appropriate; and

(b) in the case of a member of a type to which any one of Tables 1 to 24 relates, the timber is of a species listed in the Table to this rule and is graded GS, MGS, SS or MSS in accordance with BS 4978: 1973; and

(c) in the case of a floorboard to which Table 25 relates, the board complies in all respects with BS 1297: 1970.

Table to Rule 2

(Species of timber)

Imported timber (1)	*Home-grown timber* (2)
Fir, Douglas	*Fir, Douglas*
Hemlock, western (commercial)	*Larch, European*
Hemlock, western (unmixed)	*Larch, Japanese*
Pine, pitch	*Pine, Scots*
Redwood	
Whitewood	

SCHEDULE 6—*continued*

TABLE 1

FLOOR JOISTS

GS or MGS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 50*			*More than 50 but not more than 125*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·05*	*0·95*	*0·72*	*0·99*	*0·90*	*0·69*	*0·87*	*0·79*	*0·62*
38 × 100	*1·77*	*1·60*	*1·23*	*1·63*	*1·48*	*1·16*	*1·36*	*1·24*	*1·00*
38 × 125	*2·53*	*2·35*	*1·84*	*2·33*	*2·12*	*1·69*	*1·88*	*1·73*	*1·40*
38 × 150	*3·02*	*2·85*	*2·48*	*2·83*	*2·67*	*2·26*	*2·41*	*2·23*	*1·83*
38 × 175	*3·51*	*3·32*	*2·89*	*3·29*	*3·11*	*2·71*	*2·82*	*2·66*	*2·27*
38 × 200	*4·00*	*3·78*	*3·30*	*3·75*	*3·55*	*3·09*	*3·21*	*3·03*	*2·64*
38 × 225	*4·49*	*4·24*	*3·70*	*4·21*	*3·98*	*3·47*	*3·61*	*3·41*	*2·96*

44 × 75	1·20	1·08	0·83	1·13	1·02	0·79	0·98	0·89	0·70
44 × 100	2·01	1·82	1·41	1·83	1·67	1·31	1·51	1·39	1·12
44 × 125	2·71	2·56	2·09	2·54	2·38	1·90	2·08	1·92	1·56
44 × 150	3·24	3·06	2·67	3·04	2·87	2·50	2·60	2·45	2·03
44 × 175	3·77	3·56	3·10	3·53	3·34	2·91	3·02	2·86	2·48
44 × 200	4·29	4·06	3·54	4·02	3·80	3·31	3·45	3·26	2·83
44 × 225	4·81	4·55	3·97	4·51	4·27	3·72	3·87	3·66	3·18
50 × 75	1·35	1·22	0·93	1·26	1·14	0·89	1·08	0·99	0·78
50 × 100	2·22	2·03	1·58	2·03	1·85	1·46	1·66	1·53	1·23
50 × 125	2·84	2·72	2·33	2·70	2·55	2·10	2·27	2·09	1·71
50 × 150	3·40	3·26	2·84	3·23	3·05	2·66	2·76	2·61	2·21
50 × 175	3·95	3·78	3·30	3·75	3·55	3·09	3·22	3·04	2·64
50 × 200	4·51	4·31	3·76	4·27	4·04	3·52	3·67	3·46	3·01
50 × 225	5·06	4·83	4·22	4·79	4·53	3·95	4·11	3·89	3·39
63 × 150	3·66	3·52	3·17	3·50	3·38	2·97	3·09	2·92	2·54
63 × 175	4·25	4·10	3·68	4·07	3·93	3·45	3·59	3·40	2·96
63 × 200	4·84	4·67	4·20	4·64	4·48	3·93	4·09	3·87	3·37
63 × 225	5·43	5·24	4·70	5·21	5·02	4·41	4·59	4·34	3·78
75 × 200	5·10	4·93	4·51	4·90	4·72	4·27	4·43	4·20	3·67
75 × 225	5·72	5·52	5·06	5·49	5·30	4·79	4·97	4·71	4·11

SCHEDULE 6—*continued*

TABLE 2

CEILING JOISTS

GS or MGS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*					
	Not more than 25			*More than 25 but not more than 50*		
	Spacing of joists (in mm)					
	400	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)					
38 × 75	*1·88*	*1·80*	*1·57*	*1·71*	*1·61*	*1·40*
38 × 100	*2·50*	*2·39*	*2·08*	*2·27*	*2·14*	*1·86*
38 × 125	*3·11*	*2·97*	*2·59*	*2·82*	*2·67*	*2·32*
38 × 150	*3·72*	*3·55*	*3·10*	*3·37*	*3·19*	*2·78*
38 × 175	*4·32*	*4·12*	*3·60*	*3·92*	*3·71*	*3·23*
38 × 200	*4·92*	*4·69*	*4·10*	*4·46*	*4·22*	*3·68*
38 × 225	*5·51*	*5·25*	*4·60*	*4·99*	*4·73*	*4·13*
44 × 75	*1·97*	*1·90*	*1·68*	*1·83*	*1·73*	*1·51*
44 × 100	*2·61*	*2·52*	*2·23*	*2·43*	*2·30*	*2·00*
44 × 125	*3·25*	*3·14*	*2·78*	*3·03*	*2·86*	*2·49*
44 × 150	*3·89*	*3·75*	*3·32*	*3·62*	*3·42*	*2·98*
44 × 175	*4·52*	*4·36*	*3·86*	*4·20*	*3·97*	*3·47*
44 × 200	*5·14*	*4·96*	*4·39*	*4·77*	*4·52*	*3·95*
44 × 225	*5·76*	*5·56*	*4·92*	*5·34*	*5·06*	*4·43*
50 × 75	*2·05*	*1·98*	*1·79*	*1·91*	*1·84*	*1·60*
50 × 100	*2·72*	*2·62*	*2·38*	*2·53*	*2·44*	*2·13*
50 × 125	*3·39*	*3·26*	*2·95*	*3·15*	*3·04*	*2·65*
50 × 150	*4·04*	*3·90*	*3·53*	*3·77*	*3·63*	*3·17*
50 × 175	*4·70*	*4·53*	*4·10*	*4·38*	*4·22*	*3·68*
50 × 200	*5·34*	*5·16*	*4·66*	*4·99*	*4·79*	*4·19*
50 × 225	*5·98*	*5·78*	*5·22*	*5·59*	*5·37*	*4·70*

SCHEDULE 6—*continued*

TABLE 3

BINDERS OR BEAMS SUPPORTING JOISTS TO WHICH TABLE 2 RELATES

GS or MGS grade timber

Size of binder or beam (in mm)	*Dead load (in kg/m²) supported by joist as calculated for the purposes of Table 2*									
	Not more than 25					*More than 25 but not more than 50*				
	Spacing of binders or beams (in m)									
	1·20	*1·50*	*1·80*	*2·10*	*2·40*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*
	Maximum span of binder or beam (in m)									
38 × 75	*1·08*	*0·96*	*0·88*	*0·82*	*0·76*	*0·97*	*0·87*	*0·79*	*0·73*	*0·69*
38 × 100	*1·43*	*1·28*	*1·17*	*1·09*	*1·02*	*1·29*	*1·16*	*1·06*	*0·98*	*0·91*
38 × 125	*1·79*	*1·60*	*1·46*	*1·36*	*1·27*	*1·61*	*1·44*	*1·32*	*1·22*	*1·14*
38 × 150	*2·14*	*1·92*	*1·75*	*1·63*	*1·52*	*1·93*	*1·73*	*1·58*	*1·46*	*1·37*
38 × 175	*2·49*	*2·24*	*2·04*	*1·90*	*1·77*	*2·25*	*2·01*	*1·84*	*1·71*	*1·60*
38 × 200	*2·85*	*2·55*	*2·33*	*2·16*	*2·03*	*2·57*	*2·30*	*2·10*	*1·95*	*1·82*
38 × 225	*3·20*	*2·87*	*2·62*	*2·43*	*2·28*	*2·88*	*2·58*	*2·36*	*2·19*	*2·05*
44 × 75	*1·16*	*1·04*	*0·95*	*0·88*	*0·82*	*1·04*	*0·93*	*0·85*	*0·79*	*0·74*
44 × 100	*1·54*	*1·38*	*1·26*	*1·17*	*1·09*	*1·39*	*1·24*	*1·13*	*1·05*	*0·98*
44 × 125	*1·92*	*1·72*	*1·57*	*1·46*	*1·37*	*1·73*	*1·55*	*1·42*	*1·31*	*1·23*
44 × 150	*2·30*	*2·06*	*1·89*	*1·75*	*1·64*	*2·07*	*1·86*	*1·70*	*1·57*	*1·47*
44 × 175	*2·68*	*2·40*	*2·20*	*2·04*	*1·91*	*2·41*	*2·16*	*1·98*	*1·83*	*1·72*
44 × 200	*3·05*	*2·74*	*2·51*	*2·33*	*2·18*	*2·76*	*2·47*	*2·26*	*2·09*	*1·96*
44 × 225	*3·43*	*3·08*	*2·82*	*2·61*	*2·45*	*3·09*	*2·78*	*2·54*	*2·35*	*2·20*

SCHEDULE 6—*continued*

TABLE 3—*continued*

BINDERS OR BEAMS SUPPORTING JOISTS TO WHICH TABLE 2 RELATES

GS or MGS grade timber

Size of binder or beam (in mm)	*Dead load (in kg/m²) supported by joist as calculated for the purposes of Table 2*									
	Not more than 25					*More than 25 but not more than 50*				
	Spacing of binders or beams (in m)									
	1·20	*1·50*	*1·80*	*2·10*	*2·40*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*
	Maximum span of binder or beam (in m)									
50 × 75	*1·23*	*1·10*	*1·01*	*0·93*	*0·87*	*1·11*	*0·99*	*0·91*	*0·84*	*0·79*
50 × 100	*1·64*	*1·47*	*1·34*	*1·24*	*1·16*	*1·48*	*1·32*	*1·21*	*1·12*	*1·05*
50 × 125	*2·04*	*1·83*	*1·68*	*1·55*	*1·45*	*1·84*	*1·65*	*1·51*	*1·40*	*1·31*
50 × 150	*2·45*	*2·20*	*2·01*	*1·86*	*1·74*	*2·21*	*1·98*	*1·81*	*1·68*	*1·57*
50 × 175	*2·85*	*2·56*	*2·34*	*2·17*	*2·03*	*2·57*	*2·30*	*2·11*	*1·95*	*1·83*
50 × 200	*3·25*	*2·92*	*2·67*	*2·48*	*2·32*	*2·93*	*2·63*	*2·41*	*2·23*	*2·09*
50 × 225	*3·65*	*3·28*	*3·00*	*2·78*	*2·61*	*3·29*	*2·95*	*2·70*	*2·51*	*2·35*
63 × 150	*2·74*	*2·46*	*2·25*	*2·09*	*1·95*	*2·47*	*2·22*	*2·03*	*1·88*	*1·76*
63 × 175	*3·19*	*2·86*	*2·62*	*2·43*	*2·28*	*2·88*	*2·58*	*2·36*	*2·19*	*2·05*
63 × 200	*3·63*	*3·26*	*2·99*	*2·77*	*2·60*	*3·28*	*2·94*	*2·69*	*2·50*	*2·34*
63 × 225	*4·07*	*3·66*	*3·35*	*3·11*	*2·92*	*3·68*	*2·30*	*3·03*	*2·81*	*2·63*
75 × 200	*3·94*	*3·55*	*3·25*	*3·02*	*2·83*	*3·56*	*3·20*	*2·93*	*2·72*	*2·55*
75 × 225	*4·42*	*3·98*	*3·65*	*3·39*	*3·17*	*4·00*	*3·59*	*3·29*	*3·06*	*2·86*

SCHEDULE 6—*continued*

TABLE 4

JOISTS FOR FLAT ROOFS WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

GS or MGS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·88*	*1·81*	*1·65*	*1·64*	*1·58*	*1·44*	*1·56*	*1·50*	*1·37*
38 × 100	*2·50*	*2·40*	*2·19*	*2·19*	*2·11*	*1·92*	*2·08*	*2·00*	*1·82*
38 × 125	*3·11*	*2·99*	*2·73*	*2·73*	*2·63*	*2·39*	*2·59*	*2·50*	*2·27*
38 × 150	*3·72*	*3·58*	*3·27*	*3·26*	*3·14*	*2·87*	*3·11*	*2·99*	*2·72*
38 × 175	*4·32*	*4·16*	*3·81*	*3·80*	*3·66*	*3·34*	*3·62*	*3·48*	*3·17*
38 × 200	*4·92*	*4·74*	*4·34*	*4·33*	*4·17*	*3·81*	*4·12*	*3·97*	*3·62*
38 × 225	*5·51*	*5·32*	*4·87*	*4·86*	*4·68*	*4·28*	*4·63*	*4·46*	*4·07*
44 × 75	*1·97*	*1·90*	*1·73*	*1·72*	*1·66*	*1·51*	*1·64*	*1·58*	*1·44*
44 × 100	*2·61*	*2·52*	*2·30*	*2·29*	*2·21*	*2·01*	*2·18*	*2·10*	*1·91*
44 × 125	*3·25*	*3·14*	*2·86*	*2·86*	*2·75*	*2·51*	*2·72*	*2·62*	*2·38*
44 × 150	*3·89*	*3·75*	*3·43*	*3·42*	*3·29*	*3·00*	*3·25*	*3·13*	*2·86*
44 × 175	*4·52*	*4·36*	*3·98*	*3·98*	*3·83*	*3·50*	*3·79*	*3·65*	*3·33*
44 × 200	*5·14*	*4·96*	*4·54*	*4·53*	*4·37*	*3·99*	*4·32*	*4·16*	*3·80*
44 × 225	*5·76*	*5·56*	*5·10*	*5·09*	*4·90*	*4·48*	*4·85*	*4·67*	*4·26*
50 × 75	*2·05*	*1·98*	*1·80*	*1·80*	*1·73*	*1·58*	*1·71*	*1·64*	*1·50*
50 × 100	*2·72*	*2·62*	*2·39*	*2·39*	*2·30*	*2·10*	*2·27*	*2·19*	*1·99*
50 × 125	*3·39*	*3·26*	*2·98*	*2·98*	*2·87*	*2·61*	*2·83*	*2·73*	*2·49*
50 × 150	*4·04*	*3·90*	*3·57*	*3·56*	*3·43*	*3·13*	*3·39*	*3·26*	*2·98*
50 × 175	*4·70*	*4·53*	*4·15*	*4·14*	*3·99*	*3·64*	*3·94*	*3·80*	*3·47*
50 × 200	*5·34*	*5·16*	*4·72*	*4·72*	*4·55*	*4·16*	*4·49*	*4·33*	*3·95*
50 × 225	*5·98*	*5·78*	*5·30*	*5·29*	*5·10*	*4·67*	*5·04*	*4·86*	*4·44*

SCHEDULE 6—*continued*

TABLE 5

JOISTS FOR FLAT ROOFS WITH ACCESS NOT LIMITED TO THE PURPOSES OF MAINTENANCE OR REPAIR

GS or MGS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·29*	*1·16*	*0·89*	*1·14*	*1·03*	*0·81*	*1·09*	*0·99*	*0·78*
38 × 100	*1·96*	*1·86*	*1·51*	*1·79*	*1·65*	*1·31*	*1·70*	*1·55*	*1·24*
38 × 125	*2·60*	*2·50*	*2·22*	*2·38*	*2·27*	*1·87*	*2·28*	*2·16*	*1·75*
38 × 150	*3·11*	*3·00*	*2·73*	*2·87*	*2·76*	*2·45*	*2·77*	*2·67*	*1·28*
38 × 175	*3·63*	*3·49*	*3·18*	*3·34*	*3·22*	*2·85*	*3·23*	*3·11*	*2·71*
38 × 200	*4·14*	*3·98*	*3·63*	*3·81*	*3·67*	*3·26*	*3·68*	*3·55*	*3·09*
38 × 225	*4·64*	*4·47*	*4·08*	*4·28*	*4·12*	*3·66*	*4·14*	*3·98*	*3·47*
44 × 75	*1·40*	*1·33*	*1·02*	*1·29*	*1·17*	*0·92*	*1·22*	*1·11*	*0·88*
44 × 100	*2·10*	*1·99*	*1·72*	*1·91*	*1·81*	*1·48*	*1·83*	*1·73*	*1·39*
44 × 125	*2·73*	*2·63*	*2·38*	*2·51*	*2·41*	*2·09*	*2·42*	*2·31*	*1·95*
44 × 150	*3·26*	*3·14*	*2·87*	*3·01*	*2·90*	*2·63*	*2·91*	*2·80*	*2·50*
44 × 175	*3·80*	*3·66*	*3·34*	*3·50*	*3·37*	*3·06*	*3·38*	*3·26*	*2·91*
44 × 200	*4·33*	*4·17*	*3·81*	*4·00*	*3·85*	*3·50*	*3·86*	*3·72*	*3·32*
44 × 225	*4·86*	*4·68*	*4·28*	*4·49*	*4·32*	*3·93*	*4·34*	*4·18*	*3·73*

50 × 75	1·49	1·41	1·15	1·38	1·30	1·02	1·34	1·23	0·98
50 × 100	2·22	2·11	1·85	2·01	1·91	1·63	1·94	1·84	1·54
50 × 125	2·84	2·74	2·49	2·62	2·52	2·26	2·53	2·43	2·14
50 × 150	3·40	3·27	2·99	3·13	3·02	2·75	3·03	2·92	2·66
50 × 175	3·95	3·81	3·48	3·65	3·51	3·20	3·53	3·40	3·09
50 × 200	4·51	4·34	3·97	4·16	4·01	3·66	4·02	3·87	3·53
50 × 225	5·06	4·88	4·45	4·67	4·50	4·11	4·52	4·35	3·96
63 × 150	3·66	3·52	3·22	3·37	3·25	2·96	3·26	3·14	2·86
63 × 175	4·25	4·10	3·74	3·93	3·78	3·45	3·79	3·66	3·33
63 × 200	4·84	4·67	4·27	4·47	4·31	3·94	4·33	4·17	3·80
63 × 225	5·43	5·24	4·79	5·02	4·84	4·42	4·86	4·68	4·27
75 × 200	5·10	4·93	4·51	4·72	4·55	4·16	4·57	4·40	4·02
75 × 225	5·72	5·52	5·06	5·30	5·11	4·67	5·12	4·94	4·52

SCHEDULE 6—*continued*

TABLE 3—*continued*

BINDERS OR BEAMS SUPPORTING JOISTS TO WHICH TABLE 2 RELATES

GS or MGS grade timber

Size of binder or beam (in mm)	*Dead load (in kg/m²) supported by joist as calculated for the purposes of Table 2*									
	Not more than 25					*More than 25 but not more than 50*				
	Spacing of binders or beams (in m)									
	1·20	*1·50*	*1·80*	*2·10*	*2·40*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*
	Maximum span of binder or beam (in m)									
50 × 75	*1·23*	*1·10*	*1·01*	*0·93*	*0·87*	*1·11*	*0·99*	*0·91*	*0·84*	*0·79*
50 × 100	*1·64*	*1·47*	*1·34*	*1·24*	*1·16*	*1·48*	*1·32*	*1·21*	*1·12*	*1·05*
50 × 125	*2·04*	*1·83*	*1·68*	*1·55*	*1·45*	*1·84*	*1·65*	*1·51*	*1·40*	*1·31*
50 × 150	*2·45*	*2·20*	*2·01*	*1·86*	*1·74*	*2·21*	*1·98*	*1·81*	*1·68*	*1·57*
50 × 175	*2·85*	*2·56*	*2·34*	*2·17*	*2·03*	*2·57*	*2·30*	*2·11*	*1·95*	*1·83*
50 × 200	*3·25*	*2·92*	*2·67*	*2·48*	*2·32*	*2·93*	*2·63*	*2·41*	*2·23*	*2·09*
50 × 225	*3·65*	*3·28*	*3·00*	*2·78*	*2·61*	*3·29*	*2·95*	*2·70*	*2·51*	*2·35*
63 × 150	*2·74*	*2·46*	*2·25*	*2·09*	*1·95*	*2·47*	*2·22*	*2·03*	*1·88*	*1·76*
63 × 175	*3·19*	*2·86*	*2·62*	*2·43*	*2·28*	*2·88*	*2·58*	*2·36*	*2·19*	*2·05*
63 × 200	*3·63*	*3·26*	*2·99*	*2·77*	*2·60*	*3·28*	*2·94*	*2·69*	*2·50*	*2·34*
63 × 225	*4·07*	*3·66*	*3·35*	*3·11*	*2·92*	*3·68*	*2·30*	*3·03*	*2·81*	*2·63*
75 × 200	*3·94*	*3·55*	*3·25*	*3·02*	*2·83*	*3·56*	*3·20*	*2·93*	*2·72*	*2·55*
75 × 225	*4·42*	*3·98*	*3·65*	*3·39*	*3·17*	*4·00*	*3·59*	*3·29*	*3·06*	*2·86*

SCHEDULE 6—*continued*

TABLE 7

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 10° BUT NOT MORE THAN 22½° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

GS or MGS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*2·42*	*2·28*	*1·97*	*2·20*	*2·08*	*1·79*	*2·03*	*1·92*	*1·65*
38 × 125	*3·01*	*2·84*	*2·46*	*2·74*	*2·59*	*2·23*	*2·53*	*2·39*	*2·06*
38 × 150	*3·60*	*3·39*	*2·94*	*3·28*	*3·09*	*2·67*	*3·03*	*2·86*	*2·46*
44 × 75	*1·96*	*1·85*	*1·60*	*1·79*	*1·68*	*1·45*	*1·65*	*1·55*	*1·34*
44 × 100	*2·60*	*2·45*	*2·12*	*2·37*	*2·24*	*1·93*	*2·19*	*2·06*	*1·78*
44 × 125	*3·23*	*3·05*	*2·65*	*2·95*	*2·78*	*2·41*	*2·73*	*2·57*	*2·22*
44 × 150	*3·86*	*3·65*	*3·16*	*3·53*	*3·33*	*2·88*	*3·26*	*3·08*	*2·66*
50 × 75	*2·09*	*1·97*	*1·71*	*1·91*	*1·80*	*1·55*	*1·76*	*1·66*	*1·43*
50 × 100	*2·77*	*2·61*	*2·27*	*2·53*	*2·38*	*2·06*	*2·34*	*2·20*	*1·90*
50 × 125	*3·44*	*3·25*	*2·82*	*3·14*	*2·97*	*2·57*	*2·91*	*2·74*	*2·37*
50 × 150	*4·10*	*3·88*	*3·37*	*3·75*	*3·54*	*3·07*	*3·48*	*3·28*	*2·84*

SCHEDULE 6—*continued*

TABLE 8

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 7 RELATES

GS or MGS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 7*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·35*	*1·23*	*1·14*	*1·07*	*1·01*	*0·95*	*1·23*	*1·13*	*1·04*	*0·98*	*0·92*	*0·87*	*1·14*	*1·04*	*0·97*	*0·91*	*0·85*	*0·81*
50 × 125	*1·68*	*1·54*	*1·42*	*1·33*	*1·26*	*1·19*	*1·54*	*1·41*	*1·30*	*1·22*	*1·15*	*1·09*	*1·43*	*1·30*	*1·21*	*1·13*	*1·07*	*1·01*
50 × 150	*2·01*	*1·84*	*1·71*	*1·60*	*1·51*	*1·43*	*1·85*	*1·69*	*1·56*	*1·46*	*1·38*	*1·31*	*1·71*	*1·56*	*1·45*	*1·36*	*1·28*	*1·21*
50 × 175	*2·35*	*2·15*	*1·99*	*1·86*	*1·76*	*1·67*	*2·15*	*1·97*	*1·82*	*1·70*	*1·61*	*1·53*	*2·00*	*1·82*	*1·69*	*1·58*	*1·49*	*1·42*
50 × 200	*2·68*	*2·45*	*2·27*	*2·13*	*2·01*	*1·90*	*2·46*	*2·24*	*2·08*	*1·95*	*1·84*	*1·74*	*2·28*	*2·08*	*1·93*	*1·81*	*1·70*	*1·62*
50 × 225	*3·01*	*2·75*	*2·55*	*2·39*	*2·26*	*2·14*	*2·76*	*2·52*	*2·34*	*2·19*	*2·07*	*1·96*	*2·56*	*2·34*	*2·17*	*2·03*	*1·92*	*1·82*
63 × 150	*2·26*	*2·06*	*1·91*	*1·79*	*1·69*	*1·60*	*2·07*	*1·89*	*1·75*	*1·64*	*1·55*	*1·47*	*1·92*	*1·75*	*1·63*	*1·52*	*1·43*	*1·36*
63 × 175	*2·63*	*2·40*	*2·23*	*2·09*	*1·97*	*1·87*	*2·41*	*2·20*	*2·04*	*1·91*	*1·80*	*1·71*	*2·24*	*2·04*	*1·89*	*1·77*	*1·67*	*1·59*
63 × 200	*3·00*	*2·74*	*2·54*	*2·38*	*2·25*	*2·13*	*2·75*	*2·52*	*2·33*	*2·18*	*2·06*	*1·95*	*2·55*	*2·33*	*2·16*	*2·03*	*1·91*	*1·81*
63 × 225	*3·37*	*3·08*	*2·86*	*2·68*	*2·53*	*2·40*	*3·09*	*2·83*	*2·62*	*2·45*	*2·32*	*2·20*	*2·87*	*2·62*	*2·43*	*2·28*	*2·15*	*2·04*
75 × 175	*2·86*	*2·62*	*2·43*	*2·27*	*2·15*	*2·04*	*2·62*	*2·40*	*2·23*	*2·08*	*1·97*	*1·87*	*2·44*	*2·23*	*2·06*	*1·93*	*1·82*	*1·73*
75 × 200	*3·27*	*2·99*	*2·77*	*2·60*	*2·45*	*2·33*	*3·00*	*2·74*	*2·54*	*2·38*	*2·24*	*2·13*	*2·78*	*2·54*	*2·36*	*2·21*	*2·08*	*1·98*
75 × 225	*3·67*	*3·36*	*3·11*	*2·92*	*2·75*	*2·62*	*3·36*	*3·08*	*2·85*	*2·67*	*2·52*	*2·40*	*3·12*	*2·86*	*2·65*	*2·48*	*2·34*	*2·22*

SCHEDULE 6—*continued*

TABLE 9

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 22½° BUT NOT MORE THAN 30° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

GS or MGS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*2·68*	*2·53*	*2·19*	*2·44*	*2·30*	*1·99*	*2·25*	*2·12*	*1·84*
38 × 125	*3·33*	*3·15*	*2·73*	*3·04*	*2·87*	*2·48*	*2·80*	*2·65*	*2·29*
38 × 150	*3·98*	*3·76*	*3·27*	*3·63*	*3·43*	*2·97*	*3·35*	*3·16*	*2·74*
44 × 75	*2·17*	*2·05*	*1·78*	*1·97*	*1·86*	*1·61*	*1·82*	*1·72*	*1·49*
44 × 100	*2·88*	*2·72*	*2·36*	*2·62*	*2·47*	*2·14*	*2·42*	*2·28*	*1·98*
44 × 125	*3·58*	*3·38*	*2·94*	*3·26*	*3·08*	*2·67*	*3·01*	*2·84*	*2·47*
44 × 150	*4·27*	*4·04*	*3·51*	*3·89*	*3·68*	*3·20*	*3·60*	*3·40*	*2·95*
50 × 75	*2·31*	*2·18*	*1·89*	*2·10*	*1·98*	*1·72*	*1·94*	*1·83*	*1·59*
50 × 100	*3·06*	*2·89*	*2·51*	*2·79*	*2·63*	*2·29*	*2·58*	*2·43*	*2·11*	
50 × 125	*3·80*	*3·59*	*3·13*	*3·47*	*3·28*	*2·85*	*3·21*	*3·03*	*2·63*
50 × 150	*4·53*	*4·29*	*3·74*	*4·14*	*3·91*	*3·40*	*3·83*	*3·62*	*3·14*

SCHEDULE 6—*continued*

TABLE 10

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 9 RELATES

GS or MGS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 9*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·41*	*1·29*	*1·20*	*1·12*	*1·06*	*1·00*	*1·29*	*1·18*	*1·09*	*1·02*	*0·96*	*0·92*	*1·20*	*1·09*	*1·01*	*0·95*	*0·89*	*0·85*
50 × 125	*1·77*	*1·61*	*1·50*	*1·40*	*1·32*	*1·25*	*1·61*	*1·47*	*1·37*	*1·28*	*1·21*	*1·14*	*1·49*	*1·36*	*1·26*	*1·18*	*1·12*	*1·06*
50 × 150	*2·12*	*1·94*	*1·79*	*1·68*	*1·58*	*1·50*	*1·93*	*1·77*	*1·64*	*1·53*	*1·45*	*1·37*	*1·79*	*1·64*	*1·52*	*1·42*	*1·34*	*1·27*
50 × 175	*2·47*	*2·26*	*2·09*	*1·96*	*1·85*	*1·75*	*2·25*	*2·06*	*1·91*	*1·79*	*1·69*	*1·60*	*2·09*	*1·91*	*1·77*	*1·65*	*1·56*	*1·48*
50 × 200	*2·82*	*2·57*	*2·39*	*2·23*	*2·11*	*2·00*	*2·57*	*2·35*	*2·18*	*2·04*	*1·92*	*1·83*	*2·38*	*2·18*	*2·02*	*1·89*	*1·78*	*1·69*
50 × 225	*3·16*	*2·89*	*2·68*	*2·51*	*2·37*	*2·25*	*2·89*	*2·64*	*2·45*	*2·29*	*2·16*	*2·05*	*2·68*	*2·45*	*2·27*	*2·12*	*2·00*	*1·90*
63 × 150	*2·37*	*2·17*	*2·01*	*1·88*	*1·78*	*1·69*	*2·17*	*1·98*	*1·84*	*1·72*	*1·62*	*1·54*	*2·01*	*1·83*	*1·70*	*1·59*	*1·50*	*1·42*
63 × 175	*2·76*	*2·53*	*2·34*	*2·19*	*2·07*	*1·96*	*2·52*	*2·31*	*2·14*	*2·00*	*1·89*	*1·79*	*2·34*	*2·14*	*1·98*	*1·85*	*1·75*	*1·66*
63 × 200	*3·15*	*2·88*	*2·67*	*2·50*	*2·36*	*2·24*	*2·88*	*2·63*	*2·44*	*2·29*	*2·16*	*2·05*	*2·67*	*2·44*	*2·26*	*2·12*	*2·00*	*1·90*
63 × 225	*3·54*	*3·24*	*3·00*	*2·81*	*2·66*	*2·52*	*3·24*	*2·96*	*2·75*	*2·57*	*2·43*	*2·30*	*3·00*	*2·74*	*2·54*	*2·38*	*2·25*	*2·13*
75 × 175	*3·01*	*2·75*	*2·55*	*2·39*	*2·26*	*2·14*	*2·75*	*2·51*	*2·33*	*2·18*	*2·06*	*1·96*	*2·52*	*2·33*	*2·16*	*2·02*	*1·91*	*1·81*
75 × 200	*3·43*	*3·14*	*2·91*	*2·73*	*2·57*	*2·44*	*3·13*	*2·87*	*2·66*	*2·49*	*2·35*	*2·23*	*2·87*	*2·66*	*2·46*	*2·31*	*2·18*	*2·07*
75 × 225	*3·85*	*3·53*	*3·27*	*3·07*	*2·89*	*2·75*	*3·52*	*3·22*	*2·99*	*2·80*	*2·64*	*2·51*	*3·23*	*2·99*	*2·77*	*2·59*	*2·45*	*2·32*

SCHEDULE 6—*continued*

TABLE 11

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 30° BUT NOT MORE THAN 42½° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

GS or MGS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*2·84*	*2·69*	*2·33*	*2·58*	*2·44*	*2·11*	*2·38*	*2·24*	*1·94*
38 × 125	*3·54*	*3·34*	*2·91*	*3·21*	*3·04*	*2·63*	*2·96*	*2·80*	*2·42*
38 × 150	*4·22*	*3·99*	*3·48*	*3·84*	*3·63*	*3·15*	*3·54*	*3·35*	*2·90*
44 × 75	*2·30*	*2·17*	*1·89*	*2·09*	*1·97*	*1·71*	*1·93*	*1·82*	*1·57*
44 × 100	*3·05*	*2·88*	*2·51*	*2·77*	*2·62*	*2·27*	*2·56*	*2·41*	*2·09*
44 × 125	*3·79*	*3·59*	*3·12*	*3·45*	*3·26*	*2·83*	*3·18*	*3·01*	*2·61*
44 × 150	*4·53*	*4·28*	*3·73*	*4·12*	*3·90*	*3·39*	*3·81*	*3·59*	*3·12*
50 × 75	*2·45*	*2·31*	*2·01*	*2·21*	*2·10*	*1·82*	*2·01*	*1·93*	*1·68*
50 × 100	*3·24*	*3·07*	*2·67*	*2·92*	*2·79*	*2·42*	*2·67*	*2·57*	*2·23*
50 × 125	*4·03*	*3·81*	*3·32*	*3·63*	*3·47*	*3·02*	*3·33*	*3·20*	*2·78*
50 × 150	*4·81*	*4·55*	*3·97*	*4·33*	*4·14*	*3·61*	*3·97*	*3·82*	*3·32*

SCHEDULE 6—*continued*

TABLE 12

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 11 RELATES

GS or MGS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 11*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·49*	*1·36*	*1·26*	*1·18*	*1·11*	*1·05*	*1·35*	*1·24*	*1·15*	*1·07*	*1·01*	*0·96*	*1·25*	*1·14*	*1·06*	*0·99*	*0·93*	*0·89*
50 × 125	*1·86*	*1·70*	*1·57*	*1·47*	*1·39*	*1·32*	*1·69*	*1·54*	*1·43*	*1·34*	*1·26*	*1·20*	*1·56*	*1·43*	*1·32*	*1·24*	*1·17*	*1·11*
50 × 150	*2·22*	*2·03*	*1·88*	*1·76*	*1·66*	*1·58*	*2·03*	*1·85*	*1·72*	*1·61*	*1·51*	*1·44*	*1·87*	*1·71*	*1·58*	*1·48*	*1·40*	*1·33*
50 × 175	*2·59*	*2·37*	*2·20*	*2·06*	*1·94*	*1·84*	*2·36*	*2·16*	*2·00*	*1·87*	*1·77*	*1·68*	*2·18*	*1·99*	*1·85*	*1·73*	*1·63*	*1·55*
50 × 200	*2·96*	*2·71*	*2·51*	*2·35*	*2·22*	*2·10*	*2·70*	*2·46*	*2·28*	*2·14*	*2·02*	*1·91*	*2·49*	*2·28*	*2·11*	*1·97*	*1·86*	*1·77*
50 × 225	*3·32*	*3·04*	*2·82*	*2·64*	*2·49*	*2·36*	*3·03*	*2·77*	*2·57*	*2·40*	*2·27*	*2·15*	*2·80*	*2·56*	*2·37*	*2·22*	*2·09*	*1·99*
63 × 150	*2·49*	*2·28*	*2·11*	*1·98*	*1·87*	*1·77*	*2·27*	*2·08*	*1·92*	*1·80*	*1·70*	*1·61*	*2·09*	*1·92*	*1·78*	*1·66*	*1·57*	*1·49*
63 × 175	*2·90*	*2·65*	*2·46*	*2·30*	*2·17*	*2·06*	*2·64*	*2·42*	*2·24*	*2·10*	*1·98*	*1·88*	*2·43*	*2·23*	*2·07*	*1·94*	*1·83*	*1·74*
63 × 200	*3·31*	*3·03*	*2·81*	*2·63*	*2·48*	*2·36*	*3·02*	*2·76*	*2·56*	*2·40*	*2·26*	*2·15*	*2·77*	*2·55*	*2·36*	*2·21*	*2·09*	*1·98*
63 × 225	*3·72*	*3·40*	*3·16*	*2·96*	*2·79*	*2·65*	*3·39*	*3·10*	*2·88*	*2·69*	*2·54*	*2·41*	*3·12*	*2·87*	*2·66*	*2·49*	*2·35*	*2·23*
75 × 175	*3·15*	*2·89*	*2·68*	*2·51*	*2·37*	*2·25*	*2·80*	*2·63*	*2·44*	*2·29*	*2·16*	*2·05*	*2·57*	*2·42*	*2·26*	*2·11*	*1·99*	*1·89*
75 × 200	*3·59*	*3·30*	*3·06*	*2·87*	*2·71*	*2·57*	*3·20*	*3·01*	*2·79*	*2·61*	*2·46*	*2·34*	*2·93*	*2·77*	*2·58*	*2·41*	*2·28*	*2·16*
75 × 225	*4·03*	*3·71*	*3·44*	*3·22*	*3·04*	*2·89*	*3·59*	*3·38*	*3·13*	*2·93*	*2·77*	*2·63*	*3·30*	*3·11*	*2·90*	*2·71*	*2·56*	*2·43*

SCHEDULE 6—*continued*

TABLE 13

FLOOR JOISTS

SS or MSS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 50*			*More than 50 but not more than 125*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·41*	*1·32*	*1·01*	*1·35*	*1·23*	*0·96*	*1·15*	*1·05*	*0·84*
38 × 100	*2·11*	*2·00*	*1·71*	*2·00*	*1·90*	*1·57*	*1·77*	*1·63*	*1·32*
38 × 125	*2·74*	*2·63*	*2·39*	*2·62*	*2·52*	*2·25*	*2·34*	*2·23*	*1·83*
38 × 150	*3·28*	*3·15*	*2·87*	*3·14*	*3·02*	*2·75*	*2·82*	*2·72*	*2·35*
38 × 175	*3·81*	*3·67*	*3·35*	*3·65*	*3·52*	*3·20*	*3·29*	*3·17*	*2·76*
38 × 200	*4·35*	*4·19*	*3·82*	*4·16*	*4·01*	*3·66*	*3·76*	*3·62*	*3·16*
38 × 225	*4·88*	*4·70*	*4·29*	*4·68*	*4·51*	*4·11*	*4·22*	*4·06*	*3·54*
44 × 75	*1·51*	*1·43*	*1·16*	*1·45*	*1·37*	*1·09*	*1·29*	*1·18*	*0·94*
44 × 100	*2·25*	*2·13*	*1·87*	*2·13*	*2·02*	*1·77*	*1·89*	*1·80*	*1·47*
44 × 125	*2·87*	*2·76*	*2·52*	*2·74*	*2·64*	*2·40*	*2·47*	*2·37*	*2·02*
44 × 150	*3·43*	*3·31*	*3·01*	*3·29*	*3·16*	*2·88*	*2·96*	*2·85*	*2·55*
44 × 175	*3·99*	*3·85*	*3·51*	*3·83*	*3·68*	*3·36*	*3·45*	*3·32*	*2·97*
44 × 200	*4·55*	*4·39*	*4·00*	*4·36*	*4·20*	*3·83*	*3·94*	*3·79*	*3·39*
44 × 225	*5·11*	*4·93*	*4·50*	*4·90*	*4·72*	*4·31*	*4·42*	*4·26*	*3·81*

SCHEDULE 6—*continued*

TABLE 13—*continued*

FLOOR JOISTS

SS or MSS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 50*			*More than 50 but not more than 125*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
50 × 75	*1·60*	*1·51*	*1·30*	*1·53*	*1·45*	*1·21*	*1·39*	*1·30*	*1·04*
50 × 100	*2·38*	*2·26*	*1·98*	*2·25*	*2·14*	*1·89*	*1·99*	*1·90*	*1·61*
50 × 125	*2·99*	*2·88*	*2·62*	*2·86*	*2·75*	*2·51*	*2·58*	*2·48*	*2·21*
50 × 150	*3·57*	*3·44*	*3·14*	*3·42*	*3·30*	*3·01*	*3·09*	*2·97*	*2·71*
50 × 175	*4·16*	*4·01*	*3·66*	*3·98*	*3·84*	*3·50*	*3·60*	*3·46*	*3·15*
50 × 200	*4·74*	*4·57*	*4·17*	*4·54*	*4·38*	*3·99*	*4·10*	*3·95*	*3·60*
50 × 225	*5·32*	*5·13*	*4·68*	*5·10*	*4·91*	*4·49*	*4·61*	*4·44*	*4·05*
63 × 150	*3·84*	*3·70*	*3·38*	*3·68*	*3·55*	*3·24*	*3·32*	*3·20*	*2·92*
63 × 175	*4·47*	*4·31*	*3·94*	*4·28*	*4·13*	*3·77*	*3·87*	*3·73*	*3·40*
63 × 200	*5·09*	*4·91*	*4·49*	*4·88*	*4·71*	*4·30*	*4·41*	*4·25*	*3·88*
63 × 225	*5·71*	*5·51*	*5·04*	*5·48*	*5·28*	*4·83*	*4·95*	*4·77*	*4·36*
75 × 200	*5·37*	*5·18*	*4·74*	*5·15*	*4·97*	*4·54*	*4·66*	*4·49*	*4·10*
75 × 225	*6·02*	*5·81*	*5·32*	*5·78*	*5·57*	*5·10*	*5·23*	*5·04*	*4·61*

SCHEDULE 6—*continued*

TABLE 14

CEILING JOISTS

SS or MSS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*					
	Not more than 25			*More than 25 but not more than 50*		
	Spacing of joists (in mm)					
	400	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)					
38 × 75	*1·98*	*1·90*	*1·73*	*1·84*	*1·77*	*1·61*
38 × 100	*2·62*	*2·53*	*2·30*	*2·44*	*2·35*	*2·14*
38 × 125	*3·27*	*3·15*	*2·87*	*3·04*	*2·93*	*2·67*
38 × 150	*3·91*	*3·77*	*3·44*	*3·64*	*3·51*	*3·20*
38 × 175	*4·54*	*4·38*	*4·00*	*4·23*	*4·08*	*3·72*
38 × 200	*5·17*	*4·99*	*4·56*	*4·82*	*4·65*	*4·25*
38 × 225	*5·80*	*5·59*	*5·12*	*5·41*	*5·22*	*4·77*
44 × 75	*2·07*	*1·99*	*1·82*	*1·93*	*1·85*	*1·69*
44 × 100	*2·75*	*2·65*	*2·42*	*2·56*	*2·46*	*2·24*
44 × 125	*3·42*	*3·30*	*3·01*	*3·19*	*3·07*	*2·80*
44 × 150	*4·09*	*3·94*	*3·60*	*3·81*	*3·67*	*3·35*
44 × 175	*4·75*	*4·58*	*4·19*	*4·43*	*4·27*	*3·90*
44 × 200	*5·41*	*5·22*	*4·78*	*5·05*	*4·87*	*4·45*
44 × 225	*6·06*	*5·85*	*5·36*	*5·66*	*5·46*	*4·99*
50 × 75	*2·16*	*2·08*	*1·89*	*2·01*	*1·93*	*1·76*
50 × 100	*2·86*	*2·76*	*2·52*	*2·66*	*2·57*	*2·34*
50 × 125	*3·56*	*3·43*	*3·14*	*3·32*	*3·20*	*2·92*
50 × 150	*4·25*	*4·10*	*3·75*	*3·97*	*3·82*	*3·49*
50 × 175	*4·94*	*4·77*	*4·36*	*4·61*	*4·45*	*4·06*
50 × 200	*5·62*	*5·42*	*4·97*	*5·25*	*5·06*	*4·63*
50 × 225	*6·29*	*6·08*	*5·57*	*5·88*	*5·68*	*5·20*

SCHEDULE 6—*continued*

TABLE 15

BINDERS OR BEAMS SUPPORTING JOISTS TO WHICH TABLE 14 RELATES

SS or MSS grade timber

Size of binder or beam (in mm)	*Dead load (in kg/m²) supported by joist as calculated for the purposes of Table 14*									
	Not more than 25					*More than 25 but not more than 50*				
	Spacing of binders or beams (in m)									
	1·20	*1·50*	*1·80*	*2·10*	*2·40*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*
	Maximum span of binder or beam (in m)									
38 × 75	*1·29*	*1·15*	*1·05*	*0·98*	*0·91*	*1·16*	*1·04*	*0·95*	*0·88*	*0·82*
38 × 100	*1·71*	*1·54*	*1·40*	*1·30*	*1·22*	*1·54*	*1·38*	*1·26*	*1·17*	*1·09*
38 × 125	*2·14*	*1·92*	*1·75*	*1·62*	*1·52*	*1·93*	*1·73*	*1·58*	*1·46*	*1·37*
38 × 150	*2·56*	*2·30*	*2·10*	*1·95*	*1·82*	*2·31*	*2·07*	*1·89*	*1·75*	*1·64*
38 × 175	*2·98*	*2·68*	*2·45*	*2·27*	*2·12*	*2·69*	*2·41*	*2·20*	*2·04*	*1·91*
38 × 200	*3·40*	*3·05*	*2·79*	*2·59*	*2·42*	*3·07*	*2·75*	*2·52*	*2·33*	*2·18*
38 × 225	*3·82*	*3·43*	*3·14*	*2·91*	*2·72*	*3·45*	*3·09*	*2·83*	*2·62*	*2·45*

44 × 75	1·38	1·24	1·13	1·05	0·98	1·25	1·12	1·02	0·94	0·88
44 × 100	1·84	1·65	1·51	1·40	1·31	1·66	1·49	1·36	1·26	1·18
44 × 125	2·30	2·06	1·88	1·74	1·63	2·07	1·85	1·70	1·57	1·47
44 × 150	2·75	2·47	2·26	2·09	1·96	2·48	2·22	2·03	1·88	1·76
44 × 175	3·20	2·87	2·63	2·44	2·28	2·89	2·59	2·37	2·19	2·05
44 × 200	3·65	3·28	3·00	2·78	2·61	3·30	2·96	2·70	2·51	2·35
44 × 225	4·10	3·68	3·37	3·13	2·93	3·70	3·32	3·04	2·82	2·64
50 × 75	1·47	1·32	1·21	1·12	1·05	1·33	1·19	1·09	1·01	0·94
50 × 100	1·96	1·76	1·61	1·49	1·39	1·77	1·58	1·45	1·34	1·25
50 × 125	2·45	2·19	2·01	1·86	1·74	2·20	1·98	1·81	1·67	1·57
50 × 150	2·93	2·63	2·40	2·23	2·09	2·64	2·37	2·16	2·01	1·88
50 × 175	3·41	3·06	2·80	2·60	2·43	3·07	2·76	2·52	2·34	2·19
50 × 200	3·89	3·49	3·19	2·96	2·77	3·51	3·15	2·88	2·67	2·50
50 × 225	4·36	3·92	3·59	3·33	3·12	3·94	3·53	3·23	3·00	2·81
63 × 150	3·17	2·94	2·69	2·50	2·34	2·96	2·65	2·42	2·25	2·10
63 × 175	3·69	3·42	3·13	2·91	2·72	3·44	3·09	2·82	2·62	2·45
63 × 200	4·21	3·90	3·57	3·32	3·11	3·92	3·52	3·22	2·99	2·80
63 × 225	4·72	4·38	4·01	3·72	3·49	4·40	3·95	3·62	3·36	3·15
75 × 200	4·44	4·14	3·89	3·61	3·38	4·16	3·83	3·51	3·25	3·05
75 × 225	4·99	4·65	4·36	4·05	3·80	4·67	4·30	3·94	3·66	3·43

SCHEDULE 6—*continued*

TABLE 16

JOISTS FOR FLAT ROOFS WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

SS or MSS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·98*	*1·90*	*1·73*	*1·73*	*1·66*	*1·51*	*1·64*	*1·58*	*1·44*
38 × 100	*2·62*	*2·53*	*2·30*	*2·30*	*2·21*	*2·02*	*2·19*	*2·10*	*1·92*
38 × 125	*3·27*	*3·15*	*2·87*	*2·87*	*2·76*	*2·52*	*2·73*	*2·62*	*2·39*
38 × 150	*3·91*	*3·77*	*3·44*	*3·43*	*3·31*	*3·01*	*3·27*	*3·14*	*2·86*
38 × 175	*4·54*	*4·38*	*4·00*	*3·99*	*3·85*	*3·51*	*3·80*	*3·66*	*3·34*
38 × 200	*5·17*	*4·99*	*4·56*	*4·55*	*4·39*	*4·00*	*4·34*	*4·18*	*3·81*
38 × 225	*5·80*	*5·59*	*5·12*	*5·11*	*4·93*	*4·50*	*4·87*	*4·69*	*4·28*

44 × 75	2·07	1·99	1·82	1·81	1·75	1·59	1·72	1·66	1·51
44 × 100	2·75	2·65	2·42	2·41	2·32	2·11	2·29	2·21	2·01
44 × 125	3·42	3·30	3·01	3·01	2·89	2·64	2·86	2·75	2·51
44 × 150	4·09	3·94	3·60	3·60	3·46	3·16	3·42	3·30	3·00
44 × 175	4·75	4·58	4·19	4·18	4·03	3·68	3·98	3·84	3·50
44 × 200	5·41	5·22	4·78	4·77	4·60	4·20	4·54	4·38	3·99
44 × 225	6·06	5·85	5·36	5·35	5·16	4·71	5·10	4·91	4·48
50 × 75	2·16	2·08	1·89	1·89	1·82	1·66	1·80	1·73	1·57
50 × 100	2·86	2·76	2·52	2·51	2·42	2·20	2·39	2·30	2·09
50 × 125	3·56	3·43	3·14	3·13	3·01	2·75	2·98	2·87	2·61
50 × 150	4·25	4·10	3·75	3·74	3·61	3·29	3·56	3·43	3·13
50 × 175	4·94	4·77	4·36	4·35	4·20	3·83	4·15	4·00	3·65
50 × 200	5·62	5·42	4·97	4·96	4·78	4·37	4·73	4·56	4·16
50 × 225	6·29	6·08	5·57	5·56	5·37	4·91	5·30	5·11	4·67

SCHEDULE 6—*continued*

TABLE 17

JOISTS FOR FLAT ROOFS WITH ACCESS NOT LIMITED TO THE PURPOSES OF MAINTENANCE OR REPAIR

SS or MSS grade timber

Size of joist (in mm)	*Dead load (in kg/m²) supported by joist, excluding the mass of the joist*								
	Not more than 25			*More than 25 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of joists (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of joist (in m)								
38 × 75	*1·41*	*1·33*	*1·16*	*1·31*	*1·24*	*1·09*	*1·27*	*1·20*	*1·05*
38 × 100	*2·11*	*2·00*	*1·75*	*1·91*	*1·82*	*1·60*	*1·84*	*1·75*	*1·55*
38 × 125	*2·74*	*2·63*	*2·39*	*2·52*	*2·42*	*2·15*	*2·43*	*2·32*	*2·06*
38 × 150	*3·28*	*3·15*	*2·87*	*3·02*	*2·90*	*2·64*	*2·91*	*2·80*	*2·55*
38 × 175	*3·81*	*3·67*	*3·35*	*3·51*	*3·38*	*3·08*	*3·39*	*3·27*	*2·98*
38 × 200	*4·35*	*4·19*	*3·82*	*4·01*	*3·86*	*3·52*	*3·87*	*3·73*	*3·40*
38 × 225	*4·88*	*4·70*	*4·29*	*4·50*	*4·34*	*3·95*	*4·35*	*4·19*	*3·82*

44 × 75	1·51	1·43	1·24	1·39	1·32	1·16	1·35	1·28	1·13
44 × 100	2·25	2·13	1·87	2·03	1·94	1·71	1·96	1·86	1·65
44 × 125	2·87	2·76	2·52	2·64	2·54	2·28	2·55	2·45	2·19
44 × 150	3·43	3·31	3·01	3·16	3·04	2·77	3·06	2·94	2·68
44 × 175	3·99	3·85	3·51	3·68	3·55	3·23	3·56	3·43	3·12
44 × 200	4·55	4·39	4·00	4·20	4·05	3·69	4·06	3·91	3·56
44 × 225	5·11	4·93	4·50	4·72	4·54	4·14	4·56	4·39	4·00
50 × 75	1·60	1·51	1·32	1·48	1·40	1·23	1·43	1·36	1·20
50 × 100	2·38	2·26	1·98	2·15	2·04	1·81	2·06	1·96	1·74
50 × 125	2·99	2·88	2·62	2·75	2·65	2·41	2·66	2·56	2·31
50 × 150	3·57	3·44	3·14	3·30	3·17	2·89	3·18	3·07	2·79
50 × 175	4·16	4·01	3·66	3·84	3·69	3·37	3·71	3·57	3·25
50 × 200	4·74	4·57	4·17	4·37	4·21	3·84	4·23	4·07	3·71
50 × 225	5·32	5·13	4·68	4·91	4·73	4·32	4·75	4·57	4·17
63 × 150	3·84	3·70	3·38	3·55	3·42	3·12	3·43	3·30	3·01
63 × 175	4·47	4·31	3·94	4·13	3·98	3·63	3·99	3·84	3·51
63 × 200	5·09	4·91	4·49	4·70	4·53	4·14	4·55	4·38	4·00
63 × 225	5·71	5·51	5·04	5·28	5·09	4·65	5·11	4·92	4·49
75 × 200	5·37	5·18	4·74	4·97	4·79	4·37	4·80	4·63	4·23
75 × 225	6·02	5·81	5·32	5·57	5·37	4·91	5·39	5·20	4·75

SCHEDULE 6—*continued*

TABLE 18

PURLINS SUPPORTING SHEETING OR DECKING FOR ROOFS HAVING A PITCH OF 10° OR MORE

SS or MSS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by purlin, excluding the mass of the purlin*																	
	Not more than 25						*More than 25 but not more than 50*						*More than 50 but not more than 75*					
	Spacing of purlins (in m)																	
	0·90	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*	*0·90*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*	*0·90*	*1·20*	*1·50*	*1·80*	*2·10*	*2·40*
	Maximum span of purlin (in m)																	
50 × 100	*2·57*	*2·29*	*2·05*	*1·87*	*1·74*	*1·62*	*2·07*	*1·89*	*1·76*	*1·66*	*1·55*	*1·45*	*1·82*	*1·66*	*1·54*	*1·45*	*1·38*	*1·32*
50 × 125	*3·19*	*2·85*	*2·56*	*2·34*	*2·17*	*2·03*	*2·58*	*2·36*	*2·20*	*2·07*	*1·94*	*1·81*	*2·27*	*2·07*	*1·93*	*1·82*	*1·73*	*1·65*
50 × 150	*3·79*	*3·41*	*3·06*	*2·80*	*2·60*	*2·43*	*3·08*	*2·82*	*2·63*	*2·48*	*2·32*	*2·17*	*2·72*	*2·48*	*2·31*	*2·18*	*2·07*	*1·98*
50 × 175	*4·39*	*3·97*	*3·56*	*3·26*	*3·02*	*2·83*	*3·58*	*3·28*	*3·06*	*2·98*	*2·71*	*2·53*	*3·16*	*2·89*	*2·69*	*2·53*	*2·41*	*2·31*
50 × 200	*4·98*	*4·53*	*4·07*	*3·72*	*3·45*	*3·23*	*4·08*	*3·74*	*3·49*	*3·29*	*3·09*	*2·89*	*3·60*	*3·29*	*3·07*	*2·89*	*2·75*	*2·64*
50 × 225	*5·57*	*5·08*	*4·57*	*4·18*	*3·88*	*3·63*	*4·57*	*4·19*	*3·91*	*3·70*	*3·47*	*3·25*	*4·04*	*3·70*	*3·44*	*3·25*	*3·09*	*2·96*
63 × 150	*4·05*	*3·73*	*3·43*	*3·14*	*2·91*	*2·72*	*3·31*	*3·03*	*2·83*	*2·67*	*2·54*	*2·43*	*2·92*	*2·67*	*2·49*	*2·34*	*2·23*	*2·14*
63 × 175	*4·68*	*4·32*	*3·99*	*3·65*	*3·39*	*3·17*	*3·84*	*3·52*	*3·29*	*3·11*	*2·96*	*2·83*	*3·40*	*3·11*	*2·89*	*2·73*	*2·60*	*2·49*
63 × 200	*5·30*	*4·91*	*4·55*	*4·16*	*3·86*	*3·62*	*4·37*	*4·01*	*3·75*	*3·54*	*3·37*	*3·23*	*3·87*	*3·54*	*3·30*	*3·11*	*2·96*	*2·84*
63 × 225	*5·91*	*5·48*	*5·10*	*4·67*	*4·34*	*4·07*	*4·89*	*4·49*	*4·20*	*3·97*	*3·79*	*3·63*	*4·34*	*3·97*	*3·70*	*3·50*	*3·33*	*3·19*

SCHEDULE 6—*continued*

TABLE 19

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 10° BUT NOT MORE THAN 22½° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

SS or MSS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*2·88*	*2·72*	*2·36*	*2·63*	*2·48*	*2·15*	*2·44*	*2·30*	*1·98*
38 × 125	*3·59*	*3·39*	*2·94*	*3·28*	*3·09*	*2·68*	*3·03*	*2·86*	*2·47*
38 × 150	*4·29*	*4·05*	*3·52*	*3·92*	*3·70*	*3·21*	*3·63*	*3·42*	*2·96*
44 × 75	*2·33*	*2·20*	*1·91*	*2·13*	*2·01*	*1·74*	*1·95*	*1·86*	*1·61*
44 × 100	*3·10*	*2·92*	*2·54*	*2·83*	*2·67*	*2·31*	*2·59*	*2·47*	*2·14*
44 × 125	*3·85*	*3·64*	*3·16*	*3·52*	*3·32*	*2·88*	*3·22*	*3·08*	*2·66*
44 × 150	*4·60*	*4·35*	*3·78*	*4·20*	*3·97*	*3·45*	*3·85*	*3·68*	*3·19*
50 × 75	*2·48*	*2·34*	*2·04*	*2·22*	*2·14*	*1·86*	*2·03*	*1·95*	*1·72*
50 × 100	*3·29*	*3·11*	*2·70*	*2·95*	*2·84*	*2·47*	*2·69*	*2·59*	*2·28*
50 × 125	*4·09*	*3·87*	*3·37*	*3·66*	*3·53*	*3·07*	*3·35*	*3·23*	*2·84*
50 × 150	*4·88*	*4·62*	*4·02*	*4·37*	*4·21*	*3·68*	*4·00*	*3·86*	*3·40*

SCHEDULE 6—*continued*

TABLE 20

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 19 RELATES

SS or MSS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 19*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·58*	*1·47*	*1·36*	*1·28*	*1·20*	*1·14*	*1·40*	*1·32*	*1·25*	*1·17*	*1·06*	*0·96*	*1·28*	*1·21*	*1·15*	*1·03*	*0·91*	*0·82*
50 × 125	*1·97*	*1·84*	*1·70*	*1·59*	*1·50*	*1·43*	*1·75*	*1·65*	*1·56*	*1·46*	*1·33*	*1·20*	*1·60*	*1·51*	*1·43*	*1·28*	*1·14*	*1·03*
50 × 150	*2·36*	*2·20*	*2·04*	*1·91*	*1·80*	*1·71*	*2·09*	*1·97*	*1·87*	*1·75*	*1·59*	*1·43*	*1·92*	*1·81*	*1·72*	*1·54*	*1·37*	*1·23*
50 × 175	*2·75*	*2·57*	*2·38*	*2·23*	*2·10*	*1·99*	*2·44*	*2·30*	*2·18*	*2·04*	*1·85*	*1·67*	*2·24*	*2·11*	*2·00*	*1·79*	*1·60*	*1·44*
50 × 200	*3·14*	*2·93*	*2·72*	*2·54*	*2·40*	*2·28*	*2·79*	*2·63*	*2·49*	*2·33*	*2·12*	*1·91*	*2·55*	*2·40*	*2·29*	*2·05*	*1·82*	*1·64*
50 × 225	*3·52*	*3·29*	*3·05*	*2·86*	*2·70*	*2·56*	*3·13*	*2·95*	*2·80*	*2·62*	*2·38*	*2·14*	*2·87*	*2·70*	*2·57*	*2·30*	*2·05*	*1·84*
63 × 150	*2·54*	*2·40*	*2·28*	*2·14*	*2·02*	*1·92*	*2·26*	*2·13*	*2·02*	*1·94*	*1·85*	*1·76*	*2·07*	*1·95*	*1·85*	*1·77*	*1·71*	*1·55*
63 × 175	*2·96*	*2·79*	*2·66*	*2·50*	*2·36*	*2·24*	*2·63*	*2·48*	*2·36*	*2·26*	*2·16*	*2·05*	*2·41*	*2·27*	*2·16*	*2·07*	*1·99*	*1·81*
63 × 200	*3·38*	*3·19*	*3·03*	*2·85*	*2·69*	*2·55*	*3·00*	*2·83*	*2·69*	*2·58*	*2·46*	*2·34*	*2·75*	*2·59*	*2·47*	*2·36*	*2·27*	*2·06*
63 × 225	*3·79*	*3·58*	*3·41*	*3·20*	*3·02*	*2·87*	*3·37*	*3·18*	*3·03*	*2·90*	*2·77*	*2·63*	*3·09*	*2·91*	*2·77*	*2·65*	*2·55*	*2·32*
75 × 175	*3·13*	*2·95*	*2·81*	*2·69*	*2·57*	*2·44*	*2·78*	*2·62*	*2·50*	*2·39*	*2·30*	*2·22*	*2·55*	*2·40*	*2·29*	*2·19*	*2·11*	*2·03*
75 × 200	*3·56*	*3·37*	*3·21*	*3·07*	*2·93*	*2·78*	*3·17*	*2·99*	*2·85*	*2·73*	*2·63*	*2·54*	*2·91*	*2·74*	*2·61*	*2·50*	*2·40*	*2·32*
75 × 224	*4·00*	*3·78*	*3·60*	*3·45*	*3·29*	*3·13*	*3·56*	*3·36*	*3·20*	*3·07*	*2·95*	*2·85*	*3·27*	*3·08*	*2·93*	*2·81*	*2·70*	*2·61*

SCHEDULE 6—*continued*

TABLE 21

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 22½° BUT NOT MORE THAN 30° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

SS or MSS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*3·13*	*3·02*	*2·62*	*2·76*	*2·66*	*2·38*	*2·52*	*2·43*	*2·20*
38 × 125	*3·89*	*3·75*	*3·27*	*3·44*	*3·31*	*2·97*	*3·14*	*3·03*	*2·74*
38 × 150	*4·64*	*4·48*	*3·91*	*4·11*	*3·96*	*3·56*	*3·76*	*3·62*	*3·28*
44 × 75	*2·48*	*2·39*	*2·12*	*2·18*	*2·10*	*1·92*	*1·99*	*1·92*	*1·75*
44 × 100	*3·28*	*3·16*	*2·82*	*2·89*	*2·79*	*2·55*	*2·64*	*2·55*	*2·32*
44 × 125	*4·06*	*3·92*	*3·51*	*3·60*	*3·47*	*3·17*	*3·29*	*3·17*	*2·89*
44 × 150	*4·84*	*4·68*	*4·19*	*4·29*	*4·14*	*3·79*	*3·93*	*3·79*	*3·46*
50 × 75	*2·58*	*2·48*	*2·26*	*2·27*	*2·19*	*2·00*	*2·07*	*2·00*	*1·82*
50 × 100	*3·40*	*3·29*	*3·00*	*3·01*	*2·90*	*2·65*	*2·75*	*2·65*	*2·42*
50 × 125	*4·22*	*4·07*	*3·73*	*3·74*	*3·61*	*3·30*	*3·42*	*3·30*	*3·01*
50 × 150	*5·02*	*4·85*	*4·46*	*4·46*	*4·31*	*3·94*	*4·09*	*3·94*	*3·60*

SCHEDULE 6—*continued*

TABLE 22

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 21 RELATES

SS or MSS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 21*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·61*	*1·52*	*1·43*	*1·34*	*1·26*	*1·20*	*1·43*	*1·35*	*1·28*	*1·22*	*1·15*	*1·05*	*1·31*	*1·23*	*1·17*	*1·12*	*1·00*	*0·90*
50 × 125	*2·01*	*1·90*	*1·79*	*1·67*	*1·58*	*1·50*	*1·79*	*1·68*	*1·60*	*1·53*	*1·44*	*1·31*	*1·63*	*1·54*	*1·46*	*1·40*	*1·25*	*1·12*
50 × 150	*2·41*	*2·27*	*2·15*	*2·01*	*1·89*	*1·80*	*2·14*	*2·02*	*1·92*	*1·83*	*1·73*	*1·57*	*1·96*	*1·85*	*1·75*	*1·68*	*1·50*	*1·35*
50 × 175	*2·81*	*2·65*	*2·50*	*2·34*	*2·21*	*2·10*	*2·49*	*2·35*	*2·23*	*2·14*	*2·02*	*1·83*	*2·28*	*2·15*	*2·04*	*1·96*	*1·74*	*1·57*
50 × 200	*3·20*	*3·02*	*2·86*	*2·67*	*2·52*	*2·39*	*2·85*	*2·68*	*2·55*	*2·44*	*2·30*	*2·09*	*2·61*	*2·46*	*2·34*	*2·24*	*1·99*	*1·79*
50 × 225	*3·60*	*3·40*	*3·21*	*3·00*	*2·84*	*2·69*	*3·20*	*3·01*	*2·87*	*2·74*	*2·59*	*2·35*	*2·93*	*2·76*	*2·63*	*2·51*	*2·24*	*2·02*
63 × 150	*2·60*	*2·45*	*2·33*	*2·23*	*2·12*	*2·02*	*2·31*	*2·17*	*2·07*	*1·98*	*1·90*	*1·84*	*2·11*	*1·99*	*1·89*	*1·81*	*1·74*	*1·68*
63 × 175	*3·02*	*2·85*	*2·72*	*2·60*	*2·48*	*2·35*	*2·69*	*2·53*	*2·41*	*2·31*	*2·22*	*2·14*	*2·46*	*2·32*	*2·21*	*2·11*	*2·03*	*1·96*
63 × 200	*3·45*	*3·25*	*3·10*	*2·97*	*2·83*	*2·68*	*3·07*	*2·89*	*2·75*	*2·63*	*2·53*	*2·45*	*2·81*	*2·65*	*2·52*	*2·41*	*2·32*	*2·24*
63 × 225	*3·87*	*3·65*	*3·48*	*3·33*	*3·18*	*3·02*	*3·44*	*3·25*	*3·09*	*2·96*	*2·85*	*2·75*	*3·16*	*2·98*	*2·83*	*2·71*	*2·61*	*2·52*
75 × 175	*3·19*	*3·02*	*2·87*	*2·75*	*2·65*	*2·56*	*2·84*	*2·68*	*2·55*	*2·44*	*2·35*	*2·27*	*2·60*	*2·46*	*2·34*	*2·24*	*2·15*	*2·08*
75 × 200	*3·64*	*3·44*	*3·28*	*3·14*	*3·02*	*2·92*	*3·24*	*3·06*	*2·91*	*2·79*	*2·68*	*2·59*	*2·97*	*2·80*	*2·67*	*2·55*	*2·46*	*2·37*
75 × 225	*4·09*	*3·86*	*3·68*	*3·53*	*3·40*	*3·28*	*3·64*	*3·43*	*3·27*	*3·13*	*3·01*	*2·91*	*3·34*	*3·15*	*3·00*	*2·87*	*2·76*	*2·67*

SCHEDULE 6—*continued*

TABLE 23

COMMON OR JACK RAFTERS FOR ROOFS HAVING A PITCH MORE THAN 30° BUT NOT MORE THAN 42½° WITH ACCESS ONLY FOR THE PURPOSES OF MAINTENANCE OR REPAIR

SS or MSS grade timber

Size of rafter (in mm)	*Dead load (in kg/m²) supported by rafter, excluding the mass of the rafter*								
	Not more than 50			*More than 50 but not more than 75*			*More than 75 but not more than 100*		
	Spacing of rafters (in mm)								
	400	*450*	*600*	*400*	*450*	*600*	*400*	*450*	*600*
	Maximum span of rafter (in m)								
38 × 100	*3·20*	*3·09*	*2·78*	*2·82*	*2·72*	*2·48*	*2·58*	*2·48*	*2·26*
38 × 125	*3·97*	*3·84*	*2·47*	*3·51*	*3·39*	*3·09*	*3·21*	*3·09*	*2·82*
38 × 150	*4·74*	*4·58*	*4·15*	*4·20*	*4·05*	*3·70*	*3·84*	*3·70*	*3·38*
44 × 75	*2·53*	*2·44*	*2·23*	*2·23*	*2·15*	*1·96*	*2·03*	*1·96*	*1·78*
44 × 100	*3·35*	*3·23*	*2·96*	*2·96*	*2·85*	*2·60*	*2·70*	*2·60*	*2·37*
44 × 125	*4·15*	*4·01*	*3·67*	*3·67*	*3·54*	*3·24*	*3·36*	*3·24*	*2·96*
44 × 150	*4·94*	*4·78*	*4·39*	*4·39*	*4·23*	*3·87*	*4·02*	*3·87*	*3·54*
50 × 75	*2·63*	*2·54*	*2·32*	*2·32*	*2·24*	*2·04*	*2·12*	*2·04*	*1·86*
50 × 100	*3·48*	*3·36*	*3·08*	*3·08*	*2·97*	*2·71*	*2·81*	*2·71*	*2·47*
50 × 125	*4·31*	*4·16*	*3·82*	*3·82*	*3·69*	*3·37*	*3·50*	*3·37*	*3·08*
50 × 150	*5·13*	*4·96*	*4·56*	*4·56*	*4·40*	*4·03*	*4·18*	*4·03*	*3·68*

SCHEDULE 6—*continued*

TABLE 24

PURLINS SUPPORTING RAFTERS TO WHICH TABLE 23 RELATES

SS or MSS grade timber

Size of purlin (in mm)	*Dead load (in kg/m²) supported by rafter as calculated for the purposes of Table 23*																	
	Not more than 50						*More than 50 but not more than 75*						*More than 75 but not more than 100*					
	Spacing of purlins (in m)																	
	1·50	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*	*1·50*	*1·80*	*2·10*	*2·40*	*2·70*	*3·00*
	Maximum span of purlin (in m)																	
50 × 100	*1·65*	*1·55*	*1·48*	*1·41*	*1·33*	*1·26*	*1·46*	*1·38*	*1·31*	*1·25*	*1·20*	*1·15*	*1·34*	*1·26*	*1·20*	*1·14*	*1·09*	*0·98*
50 × 125	*2·06*	*1·94*	*1·84*	*1·76*	*1·66*	*1·58*	*1·82*	*1·72*	*1·63*	*1·56*	*1·50*	*1·43*	*1·67*	*1·57*	*1·49*	*1·43*	*1·37*	*1·23*
50 × 150	*2·46*	*2·32*	*2·21*	*2·11*	*1·99*	*1·89*	*2·19*	*2·06*	*1·96*	*1·87*	*1·80*	*1·72*	*2·00*	*1·89*	*1·79*	*1·72*	*1·64*	*1·47*
50 × 175	*2·87*	*2·71*	*2·57*	*2·46*	*2·32*	*2·20*	*2·55*	*2·40*	*2·28*	*2·19*	*2·10*	*2·00*	*2·33*	*2·20*	*2·09*	*2·00*	*1·91*	*1·72*
50 × 200	*3·27*	*3·09*	*2·94*	*2·81*	*2·65*	*2·52*	*2·91*	*2·74*	*2·61*	*2·50*	*2·40*	*2·29*	*2·66*	*2·51*	*2·39*	*2·28*	*2·18*	*1·96*
50 × 225	*3·68*	*3·47*	*3·30*	*3·16*	*2·98*	*2·83*	*3·27*	*3·08*	*2·93*	*2·81*	*2·70*	*2·57*	*2·99*	*2·82*	*2·68*	*2·57*	*2·45*	*2·20*
63 × 150	*2·65*	*2·50*	*2·38*	*2·28*	*2·20*	*2·12*	*2·36*	*2·22*	*2·11*	*2·02*	*1·95*	*1·88*	*2·16*	*2·03*	*1·93*	*1·85*	*1·78*	*1·72*
63 × 175	*3·09*	*2·92*	*2·77*	*2·66*	*2·56*	*2·47*	*2·74*	*2·59*	*2·46*	*2·36*	*2·27*	*2·19*	*2·52*	*2·37*	*2·25*	*2·16*	*2·08*	*2·01*
63 × 200	*3·52*	*3·33*	*3·17*	*3·03*	*2·92*	*2·82*	*3·13*	*2·95*	*2·81*	*2·69*	*2·59*	*2·50*	*2·87*	*2·71*	*2·57*	*2·46*	*2·37*	*2·29*
63 × 225	*3·95*	*3·73*	*3·56*	*3·41*	*3·28*	*3·17*	*3·52*	*3·32*	*3·16*	*3·02*	*2·91*	*2·81*	*3·23*	*3·04*	*2·89*	*2·77*	*2·67*	*2·57*
75 × 175	*3·26*	*3·08*	*2·93*	*2·81*	*2·71*	*2·62*	*2·90*	*2·74*	*2·60*	*2·49*	*2·40*	*2·32*	*2·66*	*2·51*	*2·39*	*2·28*	*2·20*	*2·12*
75 × 200	*3·72*	*3·51*	*3·35*	*3·21*	*3·09*	*2·99*	*3·31*	*3·12*	*2·97*	*2·85*	*2·74*	*2·65*	*3·04*	*2·86*	*2·72*	*2·61*	*2·51*	*2·42*
75 × 225	*4·17*	*3·94*	*3·76*	*3·60*	*3·47*	*3·35*	*3·72*	*3·51*	*3·34*	*3·20*	*3·08*	*2·98*	*3·41*	*3·22*	*3·06*	*2·93*	*2·83*	*2·73*

SCHEDULE 6—(*continued*)

TABLE 25

SOFTWOOD FLOOR BOARDS (TONGUED AND GROOVED)

Finished thickness of board (in mm)	*Maximum span of board (in mm)*
16	*505*
19	*600*
21	*635*
28	*790*

SCHEDULE 3 Regulation 13

SCHEDULE TO BE SUBSTITUTED FOR SCHEDULE 11 (THERMAL INSULATION) TO THE PRINCIPAL REGULATIONS

SCHEDULE 11 Regulation F4

THERMAL INSULATION

PART I: WALLS

TABLE 1

Description of wall (1)	*Type and minimum thickness of insulating material referred to in column (1) of this Table to be determined respectively by reference to column (1) of Table 2 and the column of that Table specified below* (2)
1. *Any wall—*	
(*a*) *of solid or composite construction containing insulating material; or*	(2)(*a*)
(*b*) *consisting of a cavity bounded by rigid leaves and filled with insulating material*	(2)(*b*)
2. *A wall of timber studding faced with breather paper as a background for tile hanging or for sheets of metal, asbestos-cement or plastics siding, lined internally with gypsum plasterboard and having insulating material fixed against one face of the enclosed airspace*	(2)(*c*)
3. *A two-leaf wall of brickwork, each leaf not less than 100 mm thick, enclosing a cavity not less than 50 mm wide, with—*	
(*a*) *insulating material applied directly to either side of the inner leaf; or*	(2)(*d*)
(*b*) *insulating material separated from the inside surface by an enclosed airspace*	(2)(*e*)

Description of wall *(1)*	*Type and minimum thickness of insulating material referred to in column (1) of this Table to be determined respectively by reference to column (1) of Table 2 and the column of that Table specified below* *(2)*
4. *A wall having a cavity not less than 50 mm wide, consisting of an outer leaf of brickwork not less than 100 mm thick and an inner leaf of timber studding lined with gypsum plasterboard, with—*	
(*a*) *insulating material applied directly to the cavity face of the lining; or*	(2)(*f*)
(*b*) *insulating material separated from the lining by an enclosed airspace*	(2)(*g*)
5. *A wall having a cavity not less than 50 mm wide, consisting of an outer leaf of brickwork not less than 100 mm thick and an inner leaf of concrete blockwork plastered on the inside surface, the insulating material being the concrete*	(2)(*h*)
6. *A wall of in-situ concrete or of concrete blockwork, rendered externally and plastered internally, the insulating material being the concrete and the wall being either—*	
(*a*) *a wall which is solid and of uniform density; or*	(2)(*j*)
(*b*) *a wall which consists of two leaves of similar material separated by a cavity not less than 50 mm wide*	(2)(*k*)
7. *A solid wall not less than 200 mm thick of foamed slag aggregate concrete or no-fines gravel aggregate concrete (density in either case not exceeding 1800 kg/m³) with—*	
(*a*) *insulating material applied directly to the inside face; or*	(2)(*f*)
(*b*) *insulating material separated from the inside face by an enclosed airspace*	(2)(*g*)

TABLE 2

Insulating material (*1*)	*Minimum thickness* (*in mm*) (*2*)									
	(*a*)	(*b*)	(*c*)	(*d*)	(*e*)	(*f*)	(*g*)	(*h*)	(*j*)	(*k*)
1. Lightweight concrete—										
density not exceeding 1400 kg/m³								*240*	*400*	*290*
„ „ „ 1200 „								*180*	*300*	*225*
„ „ „ 1000 „								*140*	*240*	*175*
„ „ „ 800 „								*108*	*190*	*140*
„ „ „ 600 „								*84*	*150*	
2. Asbestos insulating board					*13*					
3. Compressed straw slab			*45*	*29*	*11*	*49*	*31*			
4. Wood wool slab (density not exceeding 400 kg/m³)	*61*		*34*	*22*	*8*	*37*	*23*			
5. Insulating fibre building board (bitumen bonded)			*22*	*16*	*6*	*25*	*17*			
6. Mineral or rock wool cavity fill		*37*								
7. Corkboard	*34*		*18*	*12*	*5*	*20*	*13*			
8. Mineral fibre quilt or mat	*34*		*18*	*12*		*20*				
9. Urea formaldehyde foamed cavity fill		*30*								
10. Mineral fibre slab	*28*		*15*	*10*	*3*	*17*	*10*			
11. Expanded polystyrene insulating board	*28*		*15*	*10*	*3*	*17*	*10*			
12. Polyurethane, or phenol formaldehyde, core to laminated board	*19*		*10*	*7*	*2*	*12*	*7*			

PART II: FLOORS EXPOSED TO THE EXTERNAL AIR

TABLE 3

Description of floor *(1)*	*Type and minimum thickness of insulating material referred to in column (1) of this Table to be determined respectively by reference to column (1) of Table 4 and the column of that Table specified below* *(2)*
1. Floor of slabs or hollow beams of dense concrete not less than 150 mm thick, with— *(a) insulating material in direct contact with the upper or lower surface of the floor; or*	*(2)(a)*
(b) insulating material separated by an enclosed airspace from the upper or lower surface of the floor	*(2)(b)*
2. Floor of slabs or beams of autoclaved aerated concrete not less than 150 mm thick and of density not exceeding 650 kg/m³	*No additional insulation required*

TABLE 4

Insulating material	*Minimum thickness (in mm)* (2)	
(1)	(a)	(b)
1. Compressed straw slab	*58*	*38*
2. Wood wool slab (density not exceeding 400 kg/m³)	*43*	*28*
3. Insulating fibre building board	*31*	*20*
4. Corkboard	*23*	*15*
5. Mineral fibre mat or quilt	*21*	*14*
6. Mineral fibre slab or ceiling board	*18*	*12*
7. Expanded polystyrene insulation board	*18*	*12*
8. Polyurethane, or phenol formaldehyde, core to laminated board	*13*	*9*

PART III: ROOFS

TABLE 5

Description of roof (1)	*Type and minimum thickness of insulating material referred to in column (1) of this Table to be determined respectively by reference to column (1) of Table 6 and the column of that Table specified below* (2)
1. *Any roof containing insulating material*	(2)(a)
2. *Pitched roof of slates or tiles on sarking felt or sarking paper (or a pitched or flat roof of any waterproof material on boarding not less than 16 mm thick) having a ventilated space between the underside of the roof and a separate ceiling to the room below, with—*	
(a) *insulating material in direct contact with that ceiling; or*	(2)(b)
(b) *insulating material separated from either surface of the ceiling by an enclosed airspace*	(2)(c)
3. *Pitched or flat roof of asbestos-cement or metal decking with fibre insulating board not less than 12·5 mm thick below the roof finish (or a weatherproof deck of wood wool slabs not less than 50 mm thick), with—*	
(a) *insulating material in contact with the roof covering, the top of the decking or the soffit of the decking; or*	(2)(d)
(b) *insulating material separated from the soffit of the decking by an enclosed air space*	(2)(e)
4. *Pitched or flat roof of dense concrete hollow or solid beams or slabs screeded to an average thickness of not less than 40 mm, with—*	
(a) *insulating material in contact with the roof covering or the soffit of the concrete members; or*	(2)(f)
(b) *insulating material separated from the soffit of the concrete members by an enclosed airspace*	(2)(g)
5. *Pitched or flat roof of autoclaved aerated concrete slabs of density not exceeding 650 kg/m³ and thickness not less than 100 mm, with insulating material in contact with the roof covering or with the top of the concrete slabs*	(2)(h)

TABLE 6

Insulating material (1)	*Minimum thickness (in mm) (Dimensions in brackets indicate the minimum thickness required when one side of an enclosed airspace is faced with bright reflective foil)* (2)							
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)
1. *Autoclaved aerated concrete (density not exceeding 500 kg/m³)*	250							
2. *Wood wool slab (density not exceeding 400 kg/m³)*								72
3. *Insulating fibre building board*								45
4. *Cellular glass*						60		
5. *Exfoliated vermiculite loose fill*	70							
6. *Corkboard*		46	38 (31)	35	30 (25)	50	45 (37)	40
7. *Mineral fibre (glass or rock) quilt, mat or pelletted loose fill*	60		46					
8. *Mineral fibre (glass or rock) rigid slab, roof or ceiling board)*	50	38	34 (27)	32	25 (20)	43	38 (31)	32
9. *Expanded polystyrene insulating board*	50	38	34 (27)	32	25 (20)	43	38 (31)	
10. *Polyurethane, or phenol formaldehyde, core to laminated board*	35	28	20 (16)	29	15 (12)	25	22 (18)	20

PART IV:

RULES RELATING TO THE AVERAGE U VALUE OF PERIMETER WALLING

1. Nothing in this Part of this schedule shall be construed as permitting the U value of any part of a wall to exceed the maximum value prescribed by regulation F3(1).

2. Subject to rule 3, perimeter walling shall be deemed to have a U value not exceeding 1·8 if—

(a) the aggregate area of window openings having single glazing which are situated in walling required to have a U value not exceeding 1·0 (expressed as a percentage of the sum of the area of those openings and the area of that walling) does not exceed the percentage specified in column (2)(b) of Table 7 having regard to the matters set out in column (1), (2)(a) and (3) of that Table; or

(*b*) *the average U value of walling required to have a U value not exceeding 1·0 and window openings having single glazing which are situated in that walling does not exceed the value specified in column (2)(b) of Table 8 having regard to the matters set out in columns (1) and (2)(a) of that Table; or*

(*c*) $P_aU_a+P_bU_b+P_cU_c \leqslant 1{\cdot}8$

where—

P_a *is the proportion of perimeter walling occupied by walling required by regulation F3(1) to have a U value not exceeding 1·0 and window openings therein;*

P_b *is the proportion of perimeter walling occupied by walling required by regulation F3(1) to have a U value not exceeding 1·7;*

P_c *is the proportion of perimeter walling occupied by walling assumed in accordance with regulation F3(3)(a) to have a U value of 0·5;*

U_a *is the average U value of walling required to have a U value not exceeding 1·0 and window openings therein; and is equivalent to—*

$$\frac{1{\cdot}8 - (P_bU_b + P_cU_c)}{P_a} \text{ or } P_g(U_g - U_f) + U_f$$

where—

P_g *is the proportion of the area of walling required to have a U value not exceeding 1·0 which is occupied by window openings;*

U_f *is the actual U value of walling required to have a U value not exceeding 1·0; and*

U_g *is the average U value of window openings;*

U_b *is the U value of walling required to have a U value not exceeding 1·7; and*

U_c *is the value 0·5.*

3. If the actual value of one or more of the matters to which columns (1), (2)(a) and (3) of Table 7 relate or columns (1) and (2)(a) of Table 8 relate is a value intermediate between two adjacent values in the relevant column, the appropriate maximum aggregate area to which column (2)(b) of Table 7 relates or maximum average U value to which column (2)(b) of Table 8 relates, as the case may be, may (at the option of the person intending to erect the building) be obtained by linear interpolation.

4. For the purpose of this Part of this Schedule—

(*a*) *the area of any walling shall include the area of any opening therein other than a window opening and be measured on its inner face;*

(*b*) *the average U value of openings for windows having single glazing and windows having double glazing shall be taken to be equivalent to—*

$$\frac{5{\cdot}7A_1+2{\cdot}8A_2}{A_1 + A_2}$$

where—

A_1 *is the aggregate area of window openings having single glazing; and*

A_2 *is the aggregate area of window openings having double glazing.*

TABLE 7

(Maximum aggregate area of window openings)

Area of walling required to have a U value not exceeding 1·7 (expressed as a percentage of the area of perimeter walling)	*Area of walling assumed to have a U value of 0·5 (expressed as a percentage of the area of perimeter walling)* (2)(*a*)							*U value of walling required to have a U value not exceeding 1·0 (in W/m²°C)*
	0	*10*	*20*	*30*	*40*	*50*	*60*	
	Maximum aggregate area of window openings having single glazing situated in walling required to have a U value not exceeding 1·0 (expressed as a percentage of the sum of the area of those openings and the area of that walling) (2)(*b*)							
(*1*)								(*3*)
0	*20*	*23*	*27*	*32*	*38*	*47*	*60*	*0·80*
	19	*22*	*25*	*30*	*37*	*46*	*60*	*0·90*
	17	*20*	*24*	*29*	*35*	*45*	*59*	*1·00*
10	*21*	*24*	*28*	*34*	*42*	*54*	*74*	*0·80*
	19	*22*	*27*	*33*	*41*	*53*	*73*	*0·90*
	17	*21*	*25*	*31*	*40*	*52*	*73*	*1·00*
20	*21*	*25*	*30*	*37*	*48*	*66*		*0·80*
	19	*23*	*28*	*36*	*47*	*65*		*0·90*
	17	*21*	*27*	*34*	*46*	*64*		*1·00*
30	*21*	*26*	*32*	*42*	*58*	*90*		*0·80*
	20	*24*	*31*	*41*	*57*	*90*		*0·90*
	18	*22*	*29*	*39*	*56*	*89*		*1·00*
40	*22*	*27*	*36*	*49*	*77*			*0·80*
	20	*26*	*34*	*49*	*77*			*0·90*
	18	*24*	*33*	*47*	*77*			*1·00*

TABLE 8

(Maximum average U value of walling and window openings)

Area of walling required to have a U value not exceeding 1·7 (expressed as a percentage of the area of perimeter walling)	*Area of walling assumed to have a U value of 0·5 (expressed as a percentage of the area of perimeter walling)* (2)(*a*)						
	0	*10*	*20*	*30*	*40*	*50*	*60*
(*1*)	*Maximum average U value of walling required to have a U value not exceeding 1·0 and window openings situated therein (in W/m²°C)* (2)(*b*)						
0	*1·80*	*1·94*	*2·12*	*2·35*	*2·66*	*3·10*	*3·75*
10	*1·81*	*1·97*	*2·18*	*2·46*	*2·86*	*3·45*	*4·43*
20	*1·82*	*2·01*	*2·26*	*2·62*	*3·15*	*4·03*	
30	*1·84*	*2·05*	*2·38*	*2·85*	*3·63*	*5·20*	
40	*1·86*	*2·14*	*2·55*	*3·23*	*4·60*		

Regulation 14

SCHEDULE 4

ENTRIES TO BE SUBSTITUTED OR ADDED IN TABLES A AND B OF SCHEDULE 13 TO THE PRINCIPAL REGULATIONS

Publication	Amendment slip		Context
	Serial number (2)	Reference number (3)	(4)
BS 881 & 589: 1955	—	—	Schedule 4, preamble (i) Schedule 6, rule 1(*b*)
BS 1297: 1970	—	—	Schedule 6, rule 2(*c*)
BS 4978: 1973	—	—	Schedule 6, rule 2(*b*)
CP 110: Part 1: 1972	—	—	D5 (1) (*a*) D11 (1) (*a*) D21 (1) (*a*)
CP 110: Part 2: 1972	—	—	D5 (1) (*a*) D11 (1) (*a*)
CP 110: Part 3: 1972	—	—	D5 (1) (*a*) D11 (1) (*a*)
CP 112: Part 2: 1971	1	AMD 1265	D14 (*a*) and (*b*)
CP 112: Part 3: 1973	—	—	D14 (*c*)
CP 114: Part 2: 1969	1	AMD 1241	D5 (1) (*b*) D11 (1) (*b*) D21 (1) (*b*)
CP 115: Part 2: 1969	1	AMD 1242	D11 (1) (*b*) D21 (1) (*b*)
CP 116: Part 2: 1969	1	AMD 1239	D11 (1) (*b*) D21 (1) (*b*) D21 (4)
CP 116: Addendum No. 1 1970	—	—	D11 (1) (*b*) D21 (1) (*b*) D21 (4)

Anthony Crosland,
Secretary of State for the Environment.

22nd November 1974.

EXPLANATORY NOTE

(This Note is not part of the Regulations.)

These Regulations make further amendments to the Building Regulations 1972. They come into operation on 31st January 1975 but do not apply to work which has been completed, or, with the exception of regulation 9, work for which plans have been deposited with a local authority, before that date.

The principal amendments deal with—

(*a*) the revision of deemed-to-satisfy provisions for structural work of concrete to take account of the limit states design approach embodied in CP 110 (regulations 5, 6 and 8);

(*b*) the revision of deemed-to-satisfy provisions for structural work of timber to take account of stress graded timber (regulations 7 and 12);

(*c*) the withdrawal of deemed-to-satisfy provisions in so far as they relate to the use of high alumina cement for structural work (regulations 9); and

(*d*) the revision of the requirements for the provision of thermal insulation in dwellings. (The new requirements introduce higher standards of insulation for external walls, floors and roofs and, in addition, specify an insulation standard for perimeter walling, including any window openings.) (regulations 11 and 13).

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