1989 No. 300

HEALTH AND SAFETY

Construction (Metrication) Regulations (Northern Ireland) 1989

27th July 1989 Made 1st October 1989 Coming into operation

The Department of Economic Development being the Department concerned(\hat{a}), in exercise of the powers conferred by Articles 17(1) and (3), 45(1) and (2) and 55(2) of the Health and Safety at Work (Northern Ireland) Order 1978(b) and of every power enabling it in that behalf, after consultation in accordance with Article 46(1) of that Order with the Health and Safety Agency for Northern Ireland and such other bodies as appear to it to be appropriate, hereby makes the following Regulations:—

Citation, commencement and interpretation

- 1.—(1) These Regulations may be cited as the Construction (Metrication) Regulations (Northern Ireland) 1989 and shall come into operation on 1st October 1989.
- (2) In these Regulations "the principal instruments" means the Regulations and Orders amended by these Regulations, that is to say—

the Work in Compressed Air Special Regulations (Northern Ireland) 1963(c);

the Construction (General Provisions) Regulations (Northern Ireland) 1963(**d**);

the Construction (Lifting Operations) Regulations (Northern Ireland) 1963(e);

the Construction (Lifting Operations) Reports Order (Northern Ireland) 1963(**f**):

the Construction (Lifting Operations) Certificates Order (Northern Ireland) 1963(g);

the Construction (Lifting Operations) Prescribed Particulars Order (Northern Ireland) 1963(h);

the Construction (Working Places) Regulations (Northern Ireland) 1967(i).

⁽a) See Article 2(2) of S.I. 1978/1039 (N.I. 9)

⁽b) S.I. 1978/1039 (N.I. 9)

S.R. & O. (N.I.) 1963 No. 85

⁽d) S.R. & O. (N.I.) 1963 No. 87

S.R. & O. (N.I.) 1963 No. 86

S.R. & O. (N.I.) 1963 No. 132 S.R. & O. (N.I.) 1963 No. 131 **(f)**

⁽g) S.R. & O. (N.I.) 1903 NO. 131 (h) S.R. & O. (N.I.) 1963 NO. 130 S.R. & O. (N.I.) 1967 No. 175

Substitution of metric measurements for imperial

2. The provisions of the principal instruments specified in column 1 of Schedule 1 shall be amended by substituting for the measurements set out opposite thereto in column 3 the measurements set out in the corresponding entry in column 4.

Additional amendments to the Work in Compressed Air Special Regulations (Northern Ireland) 1963

- 3.—(1) For Table I (Decompression Table) annexed to the Schedule to the Work in Compressed Air Special Regulations (Northern Ireland) 1963 there shall be substituted the table in Part I of Schedule 2 and in that latter table "unit of pressure" means a pressure of 69 millibars.
- (2) For Table III (Table for ascertaining deductions) annexed to the Schedule to the Work in Compressed Air Special Regulations (Northern Ireland) 1963 there shall be substituted the Table in Part II of Schedule 2.

Application to existing premises or plant and premises or plant under construction

4. Where any premises or plant in existence or under construction immediately before the coming into operation of these Regulations complied with the requirements of the principal instruments as then in force, those premises or that plant shall be deemed to comply with the principal instruments as amended by these Regulations.

Sealed with the Official Seal of the Department of Economic Development on 27th July 1989.

(L.S.)

Suzanna Cooper

Assistant Secretary

Health and Safety

Regulation 12(1)	Temperature in working chamber	eighty degrees Fahrenheit	27 degrees Celsius	No. 300
Regulation 14(3)	Medical supervision and certification	eighteen pounds per square inch	1250 millibars	00
Regulation 17	Health Facilities	forty pounds per	2750 millibars	
		square inch eighteen pounds per square inch	1250 millibars	
Regulation 18(1)	Medical Lock	eighteen pounds per square inch	1250 millibars	Н
Regulation 18(2)		six feet six feet	1.83 metres 1.83 metres	Health and Safety
Regulation 19	Supply of Labels	eighteen pounds per square inch	1250 millibars	nd Saf
Regulation 20	Notification to Hospitals	eighteen pounds per square inch	1250 millibars	ety
Regulation 21	Supply of Hot Drinks	eighteen pounds per square inch	1250 millibars	
The Schedule				
Part I	Rules as to Compression			
Rule 1		five pounds per square inch	350 millibars	
Rule 3	,	ten pounds per square inch	700 millibars	1625

Part II	Rules as to Decompression		
Rule 6 — proviso (b)		five pounds per square inch	350 millibars
Rule 7(1)		eighteen pounds per square inch	1250 millibars
Rule 7(2)		fifty pounds per square inch	3450 millibars
Construction (General Provisions) Regulations (Northern Ireland) 1963			
Regulation $8(1)(a)$	Supply and use of timber	four feet	1.20 metres
Regulation 9(1)	Inspections and examinations of excavations, etc.	six feet six inches	2 metres
Regulation $9(4)(a)$		four feet	1.20 metres
Regulation 13	Fencing of excavations, etc.	six feet six inches	2 metres
Regulation 27(1)	Clearance	twenty yards	20 metres
Regulation 27(3)		three feet six inches six feet six inches	1.10 metres 2 metres
Regulation 28	Gantries	six feet six inches three feet	2 metres 910 metres
Construction (Lifting Operations) Regulations (Northern Ireland) 1963			··

Regulation 12	Precautions where lifting appliance has travelling or slewing motion	two feet	600 millimetres	No. 300
Regulation 13(1)	Platforms for crane drivers and signallers	six feet six inches three feet eight inches	2 metres 910 millimetres 200 millimetres	8
Regulation 13(2)		twenty-seven inches	700 millimetres	
Regulation $14(4)(c)$	Cabins for Drivers	one ton	1 tonne	
Regulation 17	Safe Means of Access	six feet six inches	2 metres	
Regulation 28(1)	Testing and Examination of cranes, etc.	one ton	1 tonne	Health
Regulation 28(2)		one ton	1 tonne	ana
Regulation 29(1)(b)	Marking of safe working loads	one ton	1 tonne	Health and Safety
Regulation 30(4)(c)	Indication of safe working load of jib cranes	one ton	1 tonne	
Regulation 41(a)	Annealing of cranes and lifting gear	half-inch	13 millimetres	
Regulation 42(1)	Safety of hoistways, platforms	six feet six inches	2 metres	
	and cranes	three feet	910 millimetres	
Regulation 47(3)(c)(ii)	Carrying persons by means of lifting appliances	three feet	910 millimetres	1627

Construction (Lifting Operations) Reports Order (Northern Ireland) 1963 The Schedule, Part II			
Column 3	Tests applied — Load Imposed Tests applied — Radius of Jib	tons feet	tonnes metres
Column 4	Safe working loads as ballasted load	tons	tonnes
Part IV			
Column 2	Maximum height of travel of the cage as tested	feet	metres
The Construction (Lifting Operations) Certificates Order (Northern Ireland) 1963 The Schedule, Part I			•
Item 10, Columns (i) and	Length and radius of jib	feet	metres
(ii) Item 10, Columns (iii) and (iv)	Test load and safe working load	tons	tonnes
Item 11	Maximum working radius of jib	feet	metres
Part II			
Table	Test load applied and safe working load	tons	tonnes
Part III	•		
Item $(2)(a)$	Size of rope	inches	millimetres

Item (3) ·	Tensile strength of wire	tons per square inch	newtons per square millimetre	No
Note at end of Part III Part V	Definition of ton	1 ton = 2240 lbs	none	. 300
Item $6(a)$ Item $6(b)$	Test load applied Safe working load	cwts cwts	none none	
The Construction (Lifting Operations) Prescribed Particulars Order (Northern Ireland) 1963 Article 2				
Paragraph 2(2)(a)(ii)	Cranes etc.	one ton	one tonne	Нес
Paragraph 2(2)(b)(ii)		one ton	one tonne	Health and Safety
The Schedule, Part I	•	•		and
Item 10, Columns (i) and (ii)	Length and radius of jib	feet	metres	Saf
Item 10, Columns (iii) and (iv)	Test load and safe working load	tons	tonnes	ety
Item 11	Maximum working radius of jib	feet	metres	
Part II	•			
Table	Test load applied and safe working load	ton's	tonnes	
The Construction (Working Places) Regulations (Northern Ireland) 1967				1629

Regulation 13(5)	Standards or uprights, ledgers and putlogs	3 feet 3 inches 1½ inches 5 feet 1½ inches 8 feet 6 inches 2 inches	1 metre 32 millimetres 1.50 metres 38 millimetres 2.60 metres 50 millimetres	1630
Regulation 15(4)	Stability of scaffolds	2 feet	600 millimetres	
Regulation 19(13)(b)(i)	Suspended scaffolds (not powered operated)	25 inches	600 millimetres	
Regulation 19(13)(b)(ii)		34 inches	800 millimetres	Н
Regulation 19(13)		12 inches	300 millimetres	Health and Safety
Regulation 19(14)		10 feet 6 inches	3.20 metres	ana
Regulation 19(15)		17 inches	430 millimetres	! Saf
Regulation $20(1)(g)$	Boatswain's chairs, cages, skips, etc. (not power operated)	3 feet	910 millimetres	ety
Regulation 21(2)(a)	Trestle scaffolds	15 feet	4.50 metres	
Regulation 22(1)	Inspection of scaffolds, boatwain's chairs, etc.	6 feet 6 inches	2 metres	
Regulation 24(1)	Construction of working plat- forms, gangways and runs	6 feet 6 inches	2 metres	No.
Regulation 24(1)(a)		6 feet 6 inches	4000 square millimetres	No. 300

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Regulation 24(1)(b)		1 inch	25 millimetres	No.
Regulation 24(3)(b)	-	4 inches	100 millimetres	. 300
Regulation 25(1)(b)	Boards and planks in working platform, gangways and runs	8 inches 2 inches 6 inches	200 millimetres 50 millimetres 150 millimetres	
Regulation 25(5)		24 inches	600 millimetres	
Regulation 26(1)	Widths of working platforms	6 feet 6 inches	2 metres	
Regulation 26(1)(a)		25 inches	600 millimetres	Hea
Regulation 26(1)(b)		34 inches 17 inches	800 millimetres 430 millimetres	Health and Safety
Regulation 26(1)(c)		25 inches	600 millimetres	l Saf
Regulation $26(1)(d)$		42 inches	1.05 metres	ety
Regulation $26(1)(e)$,	51 inches	1.30 metres	
Regulation 26(1)(f)		59 inches	1.50 metres	
Regulation 26(2)		17 inches	430 millimetres	
Regulation $26(2)(a)$		25 or 34 inches	600 or 800 millimetres	
Regulation 26(3)		12 inches	300 millimetres	
Regulation 27(1)	Widths of gangways and runs	6 feet 6 inches	2 metres	1631

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Regulation 27(1)(a)		17 inches	430 millimetres
Régulation 27(1)(b)		25 inches	600 millimetres
Regulation 28(1)	Guard-rails and toe-boards at working platforms and places	6 feet 6 inches 3 feet 3 feet 9 inches 6 inches	2 metres 910 millimetres 1.15 metres 150 millimetres
Regulation 28(3)		30 inches	765 millimetres
Regulation $28(5)(a)$		27 inches	700 millimetres
Regulation $28(6)(c)(i)$		34 inches ·	800 millimetres
Regulation 28(6)(f)		6 feet 6 inches	2 metres ·
Regulation 29(2)	Guard-rails, etc. for gangways, runs and stairs	6 feet 6 inches	2 metres
Regulation 29(2)(a)		3 feet 3 feet 9 inches	910 millimetres 1.15 metres
Regulation 29(2)(b)		6 inches 30 inches	150 millimetres 765 millimetres
Regulation 32(4)	Use of ladders and folding step-ladders	10 feet	3 metres
Regulation $32(5)(a)(i)$		3 feet 6 inches	1.05 metres

Regulation 32(8)		30 feet 30 feet 6 feet 6 inches 3 feet 3 feet 9 inches 6 inches 30 inches	9 metres 9 metres 2 metres 910 millimetres 1.15 metres 150 millimetres 765 millimetres	No. 300
Regulation 33(2)	Openings, corners, breaks, edges and open joisting	6 feet 6 inches	2 metres	
Regulation 33(2)(a)		3 feet 3 feet 9 inches 6 inches 30 inches	910 millimetres 1.15 metres 150 millimetres 765 millimetres	Health
Regulation 33(4)		6 feet 6 inches	2 metres	th an
Regulation 35(4)(b)	Sloping roofs	17 inches	430 millimetres	and Safety
Regulation 35(7)		6 feet 6 inches	2 metres	yfety
Regulation 36(1)	Work on or near fragile materials	6 feet 6 inches	2 metres	

Part I

Table I **Decompression Table (Rule 8)**

Sect	tion 1	Section 2									Sect	ion 3								
			Faste	astest permissible reduction of pressure from figure in section 2 to zero. Shortest permissible times (T) in minutes, and fastest permissible rates (R) in minutes per unit of pressure for the working periods in the different columns.																
	Basic	Lowest	"Working period": More than (c) but not more than (d) hours																	
more i	sure'' than (a) not	permissible pressure in first two		than ours		(d) '2-4		(d) 3 ¹ / ₂		(d) 2-3		(d) 2 ¹ /2		(d) 2-2		(d) ! ¹ /2	(c) 1/2	(d) -1		(d) 1/2
	than (b) ibars)	mins. after starting decom-		R Mins per unit	T Mins	R Mins per unit	T Mins	per	T Mins	R Mins per unit	T Mins	R Mins per unit	T Mins	per	T Mins	per	T Mins	R Mins per unit	T Mins	R Mins per unit
(a)	(b)	pression (millibars)		of pres- sure		of pres- sure		unit of pres- sure		of pres- sure		of pres- sure		unit of pres- sure		unit of pres- sure	~-	of pres- sure		of pres- sure
1250-1 1400-1 1500-1 1650-1 1800-1 1950-2	1500 1650 1800 1950	150 200 300 350 400 500	13 24 35 46 56 65	6½ 8 9 9 9½ 9½	6 14 22 32 42 52	3 4½ 5½ 6½ 7 7½	5 11 18 28 38 48	2½ 3½ 4½ 5½ 6½ 7	4 10 16 23 31 40	2 3½ 4 4½ 5 5½	4 9 14 19 25 32	2 3 3 ¹ / ₂ 4 4 4 ¹ / ₂	3 7 11 16 22 27	1½ 2½ 3 3 3½ 4	2 6 9 12 15 20	1 2 2 2 2 2 ¹ / ₂ 3	2 4 6 8 11 14	1 1 1½ 1½ 2 2	1 2 3 4 5 7	1/2 1/2 1 1 1 1

Table III

Table for Ascertaining Deductions

Pres										F	Allow	able .	2 Dedu	ction	5									_
Diffe	тенсе				•	•						Zoi	ies	·										,
More Than	Not More Than	A	В	С	D	Е	F	G	Н	I	J	K	L	М	N	0	P	Q	R	s S	T	U	V	Health
Mill	ibars											Mil	libar								_			
150	300	50	50	50	50	50	50	50	50	50	50	50	50	5 0	50	50	0	0	0	0	0	0	0	and
300	400	200.	200	200	200	200	200	200	150	150	150	150	150	150	150	150	50	50	50	50	50	50	0	
400	550	350	350	350	350	300	300	300	300	300	300	200	200	200	200	200	150	150	150	150	50	50	50	Safety
550	700	500	500	500	400	400	400	400	350	350	350	350	300	300	300	300	200	200	200	150	150	150	50	fet
700	850	600	600	550	550	550	500	500	500	500	400	400	400	350	350	350	300	300	300	200	150	150	150	Ų
850	950	750	700	700	700	600	600	600	600	550	550	500	500	400	400	400	350	350	300	300	200	200	150	
950	1100	900	850	850	750	750	750	700	700	600	600	600	550	550	500	500	400	400	350	300	300	200	200	
1100	1250	1050	950	950	900	900	850	850	750	,	700	700	600	600	550	550	200	500	400	350	300	300	200	
1250	1400	1100	1100	1050		950	950	900	900	000	850	750	750	700	700	600		550	500	400	350	300	300	
1400	1500					1100			950	,	900	850		750	750	700	000	550	550	500	350	350	300	
1500	1650									1050			, , ,	850	850	750		600	600	500	400	350	350	
1650	1800									1100				950	900	850		700	600	550	500	400	350	
1800	1950									1250						900	850		700	600	500	400	400	
1950	2050									1300							900		750	600	550	500	400	No
2050	2200	1950																	850	700	550	500	500	0
2200	2350	20502	2000 ———	1950	1850	1800	1 /00	1650	1600	1500	1450	1400	1300	1250	1150	1100	1050	950	900	750	600	550	500	30c

Health and Safety EXPLANATORY NOTE

(This note is not part of the Regulations.)

These Regulations amend the following instruments—

- the Work in Compressed Air Special Regulations (Northern Ireland) 1963;
- the Construction (General Provisions) Regulations (Northern Ireland) 1963;
- the Construction (Lifting Operations) Regulations (Northern Ireland) 1963;
- the Construction (Lifting Operations) Reports Order (Northern Ireland) 1963;
- the Construction (Lifting Operations) Certificates Order (Northern Ireland) 1963;
- the Construction (Lifting Operations) Prescribed Particulars Order (Northern Ireland) 1963; and

the Construction (Working Places) Regulations (Northern Ireland) 1967, by substituting amounts or quantities expressed in metric units for amounts or quantities not so expressed. The substituted amounts preserve the effect of the original provisions except to the extent necessary to obtain amounts expressed in convenient and suitable terms taking into account the changes consequent upon the metrication of timber sizes.

Regulation 4 provides that the amendments do not relate to premises or plant in existence or under construction immediately before the coming into operation of these Regulations if those premises or that plant complied with the then existing requirements.