
STATUTORY RULES OF NORTHERN IRELAND

2001 No. 73

**The Private Streets (Construction) (Amendment)
Regulations (Northern Ireland) 2001**

Amendments to the Private Streets (Construction) Regulations (Northern Ireland) 1994

3.—(1) The Private Streets (Construction) Regulations (Northern Ireland) 1994⁽¹⁾ shall be amended as provided by paragraphs (2) to (19).

(2) In regulation 2(1) (interpretation)—

(a) after the definition of “anchoring material” there shall be inserted the following definitions—

““apron plate” means a detachable plate between ground level and the bottom of a control pillar door allowing access to service cables;

“base compartment” means a lockable compartment in the base section of a lighting column to house control gear and cable terminations;”;

(b) in the definition of “construction of a street” after the word “drainage” there shall be inserted “, lighting”;

(c) after the definition of “the Construction Products Directive” there shall be inserted the following definitions—

““contactor” means a mechanical switching device having only one position of rest, operated otherwise than by hand, capable of making, carrying and breaking currents under normal circuit conditions including overload conditions;

“control pillar” means the ground mounted lockable cabinet which houses a public electricity supplier’s electrical supply equipment and the control and protection equipment for the lighting system;”;

(d) after the definition of “embankment” there shall be inserted the following definition—

““excavation for column base” means the excavated hole in which a lighting column will be secured;”;

(e) after the definition of “foul water” there shall be inserted the following definition—

““fuse switch” means a switch, (Disconnecter), (Switch—Disconnecter), in which a fuse-link or a fuse carrier with a fuse-link forms the moving contact;”;

(f) after the definition of “haunch” there shall be inserted the following definition—

““internal wiring” means the cable system within the lighting column running between the luminaire terminals and the underground supply cable, or the wiring within the control pillar;”;

(g) after the definition of “landing” there shall be inserted the following definitions—

““lantern” means a transparent case for holding and shielding a light;

“luminaire” means equipment which distributes, filters or transforms the light from one or more lamps, and which includes any part necessary for supporting, fixing and protecting the lamps, but not the lamps themselves, and, where necessary, circuit auxiliaries together with the means for connecting them to the supply;

“maintenance factor” means the depreciation factor to be applied to the calculated initial light level and is the product of the lamp flux maintenance factor and the luminaire maintenance factor;”;

(h) after the definition of “pitch line” there shall be inserted the following definitions—

““projection” in relation to road lighting column bracket arms means the horizontal distance from the point of entry to the luminaire to a vertical line passing through the centre of the cross section of the column at ground level;

“public electricity supplier” has the same meaning as in Article 3 of the Electricity (Northern Ireland) Order 1992(2);”;

(i) after the definition of “roadbase” there shall be inserted the following definition—

““road duct” means a rigid pipe of 150 mm internal diameter provided to contain a road lighting cable, which itself may be contained within a duct, where it passes across and below the carriageway;”;

(j) after the definition of “safety fence” there shall be inserted the following definition—

““sealing compound” means an organic or chemical mixture which when contained within an enclosure will solidify to provide insulation and mechanical protection to electrical cable joints buried in the ground;”;

(k) after the definition of “shared surface” there shall be inserted the following definitions—

““side entry” in relation to road lighting luminaires means a luminaire designed so that when supported by a bracket entering the luminaire at right angles to the carriageway line and substantially parallel to the carriageway surface the majority of the light output is directed downwards towards the road surface;

“spigot” in relation to road lighting bracket arms means that portion of the bracket arm to which the luminaire will be attached;”;

(l) after the definition of “surround” there shall be inserted the following definition—

““switch fuse” means a switch, (Disconnecter), (Switch—Disconnecter), in which one or more poles have a fuse in series in a composite unit;”;

(m) after the definition of “trimming” there shall be inserted the following definition—

““uplift” means the vertical distance between the top of a lighting column and the optical centre of the luminaire;”.

(3) In regulation 2(9) for sub-paragraph (a) there shall be substituted—

“(a) an organisation accredited in a EEA State in accordance with BS7501: 1989, BS7502: 1989 (equivalent European Standards BS EN 45001: 1995, BS EN 45002: 1996 and BS EN 45003: 1995) standards for the tests carried out; or”.

(4) In regulation 2(10) there shall be added to the table of abbreviations and symbols in appropriate alphabetical order the following—

“A4	Paper sheet size 210 x 297 mm
cd/m ²	Candela per square metre

CIE	Commission Internationale de L'Eclairage
HBC	High Breaking Capacity
Hz	Hertz (cycles per second)
IP	Ingress Protection
kw	Kilowatt
lux	lumens per square metre
mm ²	square millimetre
PECU	photo-electric control unit

(5) For regulation 4 (goods and materials) there shall be substituted—

“4. All goods and materials mentioned in Schedule 2 to be used in the construction of a street shall comply with the detailed requirements set out in that Schedule.”.

(6) In regulation 12(1) (retaining walls, pipelines and other structures) for the words “(3rd revision 1989)” there shall be substituted “(6th revision 1995)”.

(7) After regulation 15 (Lay-bys, bus bays, parking bays, turning areas, verges and service strips) there shall be inserted the following regulation—

“Street lighting

15A. A street shall be provided with an efficient system of street lighting in accordance with the detailed requirements of Schedule 8.”.

(8) In regulation 16 (deposit of plans)—

(a) in paragraph (2)(a)(v) the word “and” shall be deleted; and

(b) after paragraph 2(b) there shall be added the following sub-paragraph—

“; and

(c) a plan to scale of not less than 1 in 500 showing the layout of the street lighting equipment, together with four sets of drawings to a scale of 1 in 500 showing column heights and location, lantern type, lamp wattage, cable size and location, ducting arrangements, position and voltage of public electricity supplier conductors and minimum agreed clearances from columns.”.

(9) In regulation 17 (notice of commencement and completion of stages of work)—

(a) in paragraph (1)(h) the word “and” shall be deleted; and

(b) after paragraph (1)(i) there shall be added the following sub-paragraphs—

“(j) the erection of street lighting columns or cubicles;

(k) the laying of any cable in trench or in duct;

(l) the covering up of any cable or duct; and

(m) the electrical testing of the street lighting installation.”.

(10) For regulation 20 (expenses of carrying out investigations and tests and taking of samples) there shall be substituted—

“20. The person by whom or on whose behalf the plans were deposited shall bear any expenses incurred in carrying out inspections, investigations and tests and the taking of samples.”.

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(11) In regulation 21 (removal or alteration of work not in conformity with the regulations) for paragraph (2) there shall be substituted—

“(2) If a requirement under paragraph (1) is not complied with within the time specified in the notice the Department may execute the work specified in the notice and the expenses incurred shall be borne by the person by whom or on whose behalf the plans were deposited.”.

(12) In Schedule 1 (publications to which reference is made in the Regulations)—

(a) for Table A there shall be substituted—

“Table A

British Standards cited in Regulation 2

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 7501: 1989	—	—	regulation 2(9)(a)
BS 7502: 1989	—	—	“ “
BS EN 45003: 1995	—	—	“ “”

(b) in Table B for the words “(3rd Revision 1989)” there shall be substituted “(6th Revision 1995)”;

(c) for Table C there shall be substituted—

“Table C

British Standards cited in Schedule 2

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 12: 1996	—	—	paragraph 7
BS 65: 1991 (1997)	1	AMD 8622	paragraph 12(5)
BS 187: 1978	1	AMD 5427	paragraph 3(3)
BS EN 124:1994	1	AMD 8587	paragraphs 13(3), 15
BS 882:1992	—	—	paragraph 1(1)
BS 1200:1976 (1996)	1	AMD 4510	paragraph 2
	2	AMD 4834	
	3	AMD 5126	
BS 1247: Part 2:1990	—	—	paragraph 16
BS 1521: 1972 (1994)	1	AMD 3519	paragraph 25
BS 3148: 1980	—	—	paragraph 17
BS 594: Part 1: 1992	1	AMD 8397	paragraph 6(1), 6(2), 6(3)
BS EN 588-1:1997	—	—	paragraph 12(7)

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 3921: 1985 (1995)	1	AMD 8946	paragraph 3(1), 3(4)
BS 4482: 1985	1	AMD 9482	paragraph 24
BS 4483: 1998	—	—	paragraph 26
BS 4660: 1989 (1998)	1	AMD 9132	paragraph 12(6)
BS 4987: Part 1: 1993	1	AMD 8122	paragraphs 1(2), 5(1), 5(2), 5(3), 5(4)
	2	AMD 8400	
BS 5911: Part 103: 1994	—	—	paragraph 12(2)
BS 5328: Part 1: 1997	—	—	paragraphs 19, 20, 21, 22, 27
BS 5328: Part 2: 1997	1	AMD 9691	paragraphs 19, 20, 21, 22, 27
BS 5328: Part 3: 1990	1	AMD 6927	paragraphs 19, 20, 21, 22, 27
	2	AMD 7176	
	3	AMD 9312	
BS 5328: Part 4: 1990	1	AMD 6928	paragraphs 19, 20, 21, 22, 27
	2	AMD 8760	
	3	AMD 9313	
BS 5481: 1977 (1998)	1	AMD 3631	paragraph 12(6)
	2	AMD 4436	
BS 5911: Part 2: 1982	1	AMD 5146	paragraph 14
	2	AMD 8077	
BS 5911: Part 100: 1988	1	AMD 6269	paragraph 12(1)
	2	AMD 7588	
BS 5911: Part 110: 1992	1	AMD 8155	paragraph 12(3)
BS 5911: Part 114: 1992	—	—	paragraph 12(4)
BS 5911: Part 230: 1994	—	—	paragraph 13(1)
BS 6073: Part 1: 1981	1	AMD 3944	paragraph 3(2)
	2	AMD 4462	

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 7263: Part 1: 1994	—	—	paragraphs 10(1), 10(2), 11”

(d) in Table D for the reference to BS 1377: Part 2: 1990 there shall be substituted the following—

“BS 1377: Part 2: 1990	1	AMD 9027	paragraph 4(2)(f)”
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(e) for Table F there shall be substituted—

“Table F

British Standards cited in Schedule 4

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 65: 1991(1997)	1	AMD 8622	paragraph 3(4)
BS 449: Part 2: 1969	1	AMD 416	paragraph 6(11)(b)
	2	AMD 523	
	3	AMD 661	
	4	AMD 1135	
	5	AMD 1787	
	6	AMD 4576	
	7	AMD 5698	
	8	AMD 6255	
	9	AMD 8859	
BS EN 124: 1994	1	AMD 8587	paragraph 6(13), 6(16)
BS 812: Part 110: 1990	—	—	paragraph 4(8)
BS 882: 1992	—	—	paragraph 3(7)
BS 1247: Part 2: 1990	—	—	paragraph 6(10)(a)
BS 1377: Part 2: 1990	1	AMD 9027	paragraph 4(9)
BS 4211: 1994	—	—	paragraph 6(11)(f)
BS 4660: 1989 (1998)	1	AMD 9132	paragraph 3(4)
BS 5481: 1977 (1998)	1	AMD 3631	paragraph 3(4)
	2	AMD 4436	

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 5911: Part 103: 1994	—	—	paragraph 3(4)
BS 5911: Part 100: 1988	1	AMD 6269	paragraph 3(4)
	2	AMD 7588	
BS 5911: Part 110: 1992	1	AMD 8155	paragraph 3(4)
BS 5911: Part 114: 1992	—	—	paragraph 3(4)
BS 5911: Part 200: 1994	—	—	paragraph 6(4)
BS 5911: Part 230: 1994	—	—	paragraph 7(3), 7(5)
BS 6073: Part 1: 1981	1	AMD 3944	paragraph 6(2)
	2	AMD 4462	
BS EN 752-1: 1996	—	—	paragraph 1(4)
BS EN 752-2: 1997	—	—	paragraph 1(4)
BS EN 752-3: 1997	—	—	paragraph 1(4)”

(f) for Table H there shall be substituted—

“Table H

British Standards cited in Schedule 5

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 594: Part 1: 1992	1	AMD 8397	paragraphs 12(3), 13(3), 13(4)
BS 594: Part 2: 1992	1	AMD 8398	paragraphs 12(3), 13(3)
BS 598: Part 100: 1987 (1996)	1	AMD 6122	paragraph 10(6)
	2	AMD 9030	
BS 598: Part 101: 1987	—	—	paragraph 10(3)
BS 598: Part 102: 1996	—	—	paragraph 10(3)
BS 598: Part 104: 1989 (1996)	1	AMD 6738	paragraph 10(3)
	2	AMD 9031	

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 598: Part 105: 1990	1	AMD 7294	paragraph 10(3)
BS 598: Part 107: 1990 (1996)	1	AMD 8399	paragraph 10(3)
	2	AMD 9032	
BS 598: Part 108: 1990	—	—	paragraph 10(3)
BS 598: Part 109: 1990	—	—	paragraph 10(3)
BS 812: Part 2: 1995	1	AMD 9195	paragraph 10(3)
	2	AMD 10379	
BS 812: Part 101: 1984	—	—	paragraph 10(3)
BS 812: Part 102: 1989	—	—	paragraph 10(3)
BS 812: Part 103: Section 103-1: 1985	1	AMD 6003	paragraph 10(3)
BS 812: Part 103: Section 103-2: 1989	—	—	paragraph 10(3)
BS 812: Part 105: Section 105-1: 1989	—	—	paragraph 10(3)
BS 812: Part 105: Section 105-2:1990	—	—	paragraph 10(3)
BS 812: Part 106: 1985	—	—	paragraph 10(3)
BS 812: Part 111: 1990	—	—	paragraphs 7(1), 8(1), 10(3)
BS 882: 1992	—	—	paragraph 10(3)
BS 1377: Part 2: 1990	1	AMD 9027	paragraphs 6(7), 7(5), 8(3)
BS 2000: Part 397: 1995	—	—	paragraph 10(3)
BS 3690: Part 3: 1990	—	—	paragraph 10(3)
BS 4483: 1998	—	—	paragraph 2(4)
BS 4987: Part 1: 1993	1	AMD 8122	paragraphs 9(1), 12(2), 13(2), 13(5),
	2	AMD 8400	14(2), 15
BS 4987: Part 2: 1993	1	AMD 8158	paragraphs 9(1), 9(2), 11(3), 12(2), 12(4),
	2	AMD 8361	13(2), 13(5)

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 6677: Part 1: 1986 (1997)	—	—	paragraph 17(4)
BS 6677: Part 3: 1986	—	—	paragraph 17(4)
BS 6717: Part 1: 1993	—	—	paragraph 17(1)
BS 7533: Part 3: 1997	—	—	paragraphs 2(1), 17(2), 17(4)”

(g) for Table J there shall be substituted—

“Table J

British Standards cited in Schedule 6

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 4987: Part 1: 1993	1	AMD 8122	paragraph 2(2)(b)(ii)
	2	AMD 8400	
BS 4987: Part 2: 1993	1	AMD 8158	paragraph 2(2)(b)(ii)”
	2	AMD 8361	

(h) for Table K there shall be substituted—

“Table K

British Standards cited in Schedule 7

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 594: Part 1: 1992	1	AMD 8397	paragraph 2(6)(a)
BS 594: Part 2: 1992	1	AMD 8398	paragraph 2(6)(a)
BS 882: 1992	—	—	paragraph 2(13)
BS 1881: Part 101: 1983	1	AMD 6091	paragraph 2(28)
	2	AMD 6728	
BS 1881: Part 102: 1983	1	AMD 6090	paragraph 2(28)
	2	AMD 6727	
BS 1881: Part 108: 1983	1	AMD 6105	paragraph 2(28)
	2	AMD 9074	
BS 1881: Part 111: 1983	1	AMD 6102	paragraph 2(28)
	2	AMD 9387	

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 1881: Part 112: 1983	1	AMD 6100	paragraph 2(28)
BS 1881: Part 116: 1983	1	AMD 6097	paragraph 2(28)
	2	AMD 6720	
BS 4483: 1998	—	—	paragraph 5(21)
BS 4987: Part 1: 1993	1	AMD 8122	paragraph 2(5)
	2	AMD 8400	
BS 4987: Part 2: 1993	1	AMD 8158	paragraph 2(5)
	2	AMD 8361	
BS 7263: Part 1: 1994	—	—	paragraphs 2(10), 4(2), 4(8)(b), 4(9)(b)
BS 7533: Part 4: 1998	—	—	paragraph 4(5)”

(i) for Table L there shall be substituted—

“Table L

Other Publications cited in Schedule 7

<i>Publication</i>	<i>Citation</i>
The Department of the Environment and the Department for Regional Development publication “Creating Places— achieving quality in residential developments and incorporating guidance on layout and access” published in 2000 by Corporate Document Services, 67 Newpark Industrial Estate, Causide Drive, Antrim, BT41 2DU.	paragraphs 4(6), 8”

(j) after Table L there shall be added—

“Table M

British Standards cited in Schedule 8

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 729: 1971 (1994)	—	—	paragraph 4(3)(d)
BS 1361: 1971 (1986)	1	AMD 4171	paragraph 4(6)(a) and Figures 1 and 2
	2	AMD 4795	
	3	AMD 6692	
BS 1362: 1973 (1992)	1	AMD 4573	Figures 1 and 2

<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
	2	AMD 6691	
BS 4553-1: 1998	—	—	paragraph 4(10)(a)
BS 4800: 1989 (1994)	—	—	paragraph 4(15)(j)
BS 4987: Part 1: 1993	1	AMD 8122	Figure 4
	2	AMD 8400	
BS 5328: Part 1: 1997	—	—	Figure 5
BS 5489: Part 1: 1992	1	AMD 9010	paragraphs 1(1), 4(2)(a)
BS 5489: Part 2: 1992	—	—	paragraphs 1(1), 1(2), 4(2)(a), 4(2)(l)
BS 5489: Part 3: 1992	1	AMD 9011	paragraphs 1(1), 4(2)(a), 4(2)(l)
	2	AMD 9674	
BS 5489: Part 4: 1992	1	AMD 9012	paragraphs 1(1), 4(2)(a)
BS 5489: Part 5: 1992	—	—	paragraphs 1(1), 4(2)(a)
BS 5489: Part 6: 1992	—	—	paragraphs 1(1), 4(2)(a)
BS 5489: Part 7: 1992	1	AMD 9013	paragraphs 1(1), 4(2)(a)
BS 5489-8: 1998	—	—	paragraphs 1(1), 4(2)(a)
BS 5489: Part 9: 1996	—	—	paragraphs 1(1), 4(2)(a)
BS 5489: Part 10: 1992	1	AMD 9014	paragraphs 1(1), 4(2)(a)
BS 5649: Part 2: 1978 (1997)	1	AMD 3136	paragraph 4(3)(a), 4(3)(i)
BS 5649: Part 3: 1982 (1997)	—	—	paragraph 4(3)(a), 4(3)(i)
BS 5649: Part 4: 1982 (1997)	—	—	paragraph 4(3)(a), 4(3)(i)
BS 5649: Part 5: 1982 (1997)	—	—	paragraph 4(3)(a), 4(3)(i)
BS 5649: Part 6: 1982 (1997)	—	—	paragraph 4(3)(a), 4(3)(i)

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
BS 5649: Part 7: 1985 (1997)	—	—	paragraph 4(3)(a), 4(3)(i)
BS 5649: Part 8: 1982 (1997)	—	—	paragraph 4(3)(a), 4(3)(i), 4(3)(j)
BS 5972: 1980	1	AMD 4094	paragraph 4(8)(a), 4(8)(c)
	2	AMD 4486	
BS 6004: 1995	—	—	paragraph 4(11)
BS 6346: 1997	—	—	paragraph 4(10)(b), 4(10)(c)
BS 6746: 1990	1	AMD 6938	paragraph 4(10)(a)
BS 7654: 1997	—	—	paragraph 4(9)
BS 7671: 1992	1	AMD 8536	paragraphs 2(5), 8(1) (b), 8(5) and Figure 2
	2	AMD 9781	
BS EN 40-1: 1992	—	—	paragraph 4(3)(a), 4(3)(i)
BS EN 60192: 1993	1	AMD 8718	paragraph 4(4)(b)
BS EN 60269-1: 1994 (1992)	1	AMD 6448	Table C and Figures 1 and 2
	2	AMD 8310	
BS EN 60529: 1992	1	AMD 7643	paragraph 4(2)(e)
BS EN 60598-2-3: 1994	1	AMD 9337	paragraph 4(2)(a)
	2	AMD 9685	
BS EN 60662: 1993	1	AMD 8348	paragraph 4(4)(a)
	2	AMD 8457	
	3	AMD 8571	
	4	AMD 9150	
	5	AMD 9777	
	6	AMD 9934	
BS EN 60922: 1997	—	—	paragraph 4(2)(c)
BS EN 60923: 1996	—	—	paragraph 4(2)(c)
BS EN 60947-3: 1992	1	AMD 7854	paragraph 4(6)(d)
	2	AMD 9079	

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<i>Publication</i>	<i>Amendment Serial No</i>	<i>Reference No or date</i>	<i>Citation</i>
	3	AMD 9817	
BS EN 60947-4-1: 1992	1	AMD 7337	paragraph 4(7)(a)
	2	AMD 7702	
	3	AMD 7849	
	4	AMD 8753	
	5	AMD 9816	
BS EN 61048: 1993	1	AMD 9153	paragraph 4(2)(b)
BS EN ISO 9002: 1994	—	—	paragraph 4(3)(b)

Table N

Other Publications cited in Schedule 8

<i>Publication</i>	<i>Citation</i>
The Department of the Environment and the Department for Regional Development publication “Creating Places—achieving quality in residential developments and incorporating guidance on layout and access” published in 2000 by Corporate Document Services, 67 Newpark Industrial Estate, Caulside Drive, Antrim, BT41 2DU.	Table A, paragraph 2(4)(a), 2(4)(b)
Department of the Environment for Northern Ireland Manual of Contract Documents Volume 1 Specification for Highway Works, Series 1900 Protection of Steelwork against Corrosion Published by The Stationery Office	paragraph 4(15)(j)”

(13) For Schedule 2 (detailed requirements for goods and materials to be used in construction of streets) there shall be substituted—

“SCHEDULE 2

Regulation 4

Detailed Requirements for Goods and Materials to be used in Construction of Streets

<i>Goods and Materials</i>	<i>Specification</i>
1. Aggregates	
(1) for concrete	To BS 882: 1992.
(2) for bituminous materials	Sound clean hard crushed rock graded to BS 4987: Part 1: 1993.

<i>Goods and Materials</i>	<i>Specification</i>
2. Building sand	To BS 1200: 1976 (1996) Table 1.
3. Bricks	
(1) Clay	Well fired solid common brick or ordinary quality to BS 3921: 1985 (1995).
(2) Concrete	To BS 6073: Part 1: 1981
(3) Sand Lime	To BS 187: 1978
(4) Engineering	To BS 3921: 1985 (1995) Table 4 Class B.
4. Bitumen	Straight run or cut back petroleum bitumen in accordance with the requirements of Schedule 5 paragraph 15.
5. Bitumen macadam	
(1) Carriageway and shared surface basecourse	20mm dense graded basecourse to BS 4987: Part 1: 1993 supplemented by the requirements of paragraph 12 of Schedule 5 and paragraph 2(2)(b) of Schedule 6 respectively.
(2) Carriageway and shared surface wearing course	10mm or 14mm size close graded wearing course macadam to BS 4987: Part 1: 1993 supplemented by the requirements of paragraph 13 of Schedule 5 and paragraph 2(2)(b) of Schedule 6 respectively.
(3) Footway basecourse	20mm size dense basecourse in accordance with BS 4987: Part 1: 1993 subject to the requirements of paragraph 2(5) of Schedule 7.
(4) Footway wearing course	6mm size medium graded wearing course in accordance with BS 4987: Part 1: 1993 subject to the requirements of paragraph 2(6) of Schedule 7.
6. Asphalt	
(1) Carriageway and shared surface basecourse	60 per cent coarse aggregate hot rolled asphalt to BS 594: Part 1: 1992 Table 2; Column 2/4, Binder to Table 1, Binder Numbers 3 or 5; supplemented by the requirements of paragraph 12 of Schedule 5.
(2) Carriageway and shared surface wearing course	30 per cent coarse aggregate hot rolled asphalt to BS 594: Part 1: 1992 Table 6, Column 6/4, Schedule 1B; Binder to Table 1, Binder Numbers 3 or 5; supplemented by the requirements of paragraph 13 of Schedule 5 and paragraph 2(2)(b) of Schedule 6 respectively.
(3) Footway or footpath wearing course	15 per cent coarse aggregate hot rolled asphalt to BS 594: Part 1: 1992 Table 6, Column 6/2, Schedule 1B; Binder to Table 1, Binder Numbers 3 or 5; supplemented by the requirements of paragraph 2(6) of Schedule 7.
7. Cement	Ordinary or rapid hardening Portland to BS 12: 1996.

<i>Goods and Materials</i>	<i>Specification</i>
8. Cement mortar	
(1) general use	1 part by volume of cement to 5 of building sand.
(2) for jointing pipes	1 part by volume of cement to 1 of building sand.
(3) for jointing kerbs	1 part by volume of cement to 3 of building sand.
9. Lime mortar	1 part by volume of hydrated lime to 2½ parts of building sand.
10. Kerbs and edgings	
(1) Concrete kerbs	Hydraulically compressed to BS 7263: Part 1: 1994 Type HB 2 of Figure 2 (150mm x 125mm Type BN of Figure 2 in shared surfaces).
(2) Concrete edgings	Hydraulically compressed to BS 7263: Part 1: 1994 Type ER or EF of Figure 4.
11. Concrete flags	Hydraulically compressed to BS 7263: Part 1: 1994 Type E70.
12. Pipes	
(1) Concrete	To BS 5911: Part 100: 1988
(2) Concrete prestressed	To BS 5911: Part 103: 1994
(3) Concrete perforated	To BS 5911: Part 110: 1992 With holes not greater than 10mm or less than 3mm; the total areas of holes shall be not less than 1,000mm ² per m length of pipe.
(4) Concrete porous	To BS 5911: Part 114: 1992.
(5) Clay	To BS 65: 1991 (1997).
(6) UPVC	To BS 5481: 1977 (1998) or BS 4660: 1989 (1998).
(7) Asbestos cement	To BS EN 588-1: 1997.
13. Gullies, gully gratings and frames	
(1) Concrete gullies	Shall have an internal diameter of 375mm and conform to BS 5911: Part 230: 1994.
(2) Cast iron gullies	To the requirements of paragraph 7 of Schedule 4.
(3) Gully gratings and frames	Cast iron to BS EN 124: 1994. Para 4 BS Ref Class C250 or D400. The metal used for the manufacture of castings to be as described in Para 6.1.1 of BS EN 124: 1994.
14. Precast concrete manholes	To BS 5911: Part 2: 1982.
15. Manhole covers and frames	Grade D400 and test load 400 KN. BS EN 124: 1994.
16. Step irons	To BS 1247: Part 2: 1990 and the requirements of paragraph 6(10) of Schedule 4.
17. Water	Mains supply, otherwise to BS 3148: 1980.

<i>Goods and Materials</i>	<i>Specification</i>
18. Sub-base and roadbase	Shall be hard sound uniformly graded crushed rock, reasonably cubical in shape and free of soil, slate, vegetable or other injurious matter and graded in accordance with the requirements of paragraphs 7 and 8 of Schedule 5.
19. Concrete grade C30/20	To BS 5328: Parts 1 and 2: 1997 and Parts 3 and 4: 1990 20mm nominal size aggregate with 275 kg per m ³ minimum cement content and medium workability.
20. Concrete grade C20/40	To BS 5328: Parts 1 and 2: 1997 and Parts 3 and 4: 1990 40mm nominal size aggregate with 190 kg per m ³ minimum cement content and medium workability.
21. Concrete grade C20/20	To BS 5328: Parts 1 and 2: 1997 and Parts 3 and 4: 1990 20mm nominal size aggregate with 220kg per m ³ minimum cement content and medium workability.
22. Concrete grade C7.5/40	To BS 5328: Parts 1 and 2: 1997 and Parts 3 and 4: 1990 40mm nominal size aggregate with 200kg per m ³ minimum cement content and medium workability.
23. Grass seed	Each 100kg of grass seed shall consist of— 60kg of red fescue S59 20kg of smooth stalked meadow grass 15kg of crested dogstail 5kg of white clover.
24. Mild steel reinforcing	To BS 4482: 1985.
25. Waterproof membrane	To BS 1521: 1972 (1994) Class B. IF.
26. Steel fabric reinforcement	To BS 4483: 1998 and the requirements of paragraph 2(1) and (4) of Schedule 5.
27. Ready-mixed concrete	To BS 5328: Parts 1 and 2: 1997 and Parts 3 and 4: 1990.
28. Block paving	Shall be in accordance with the requirements of paragraph 17 of Schedule 5.
29. Blinding	Shall be crushed rock of 19mm maximum size which is capable of filling the intricacies of the top layer of roadbase stone and being compacted to form a dense surface.
30. Luminaires	Shall be in accordance with the requirements of paragraph 4(2) of Schedule 8.
31. Lighting columns, doors and bracket arms	Shall be in accordance with the requirements of paragraph 4(3) of Schedule 8.

<i>Goods and Materials</i>	<i>Specification</i>
32. Lamps	Shall be in accordance with the requirements of paragraph 4(4) of Schedule 8.
33. Electrical switch gear	Shall be in accordance with the requirements of paragraph 4(5) of Schedule 8.
34. Electrical switch fuses and fuse switches	Shall be in accordance with the requirements of paragraph 4(6) of Schedule 8.
35. Contactors	Shall be in accordance with the requirements of paragraph 4(7) of Schedule 8.
36. PECUs	Shall be in accordance with the requirements of paragraph 4(8) of Schedule 8.
37. Cut-outs	Shall be in accordance with the requirements of paragraph 4(9) of Schedule 8.
38. Electrical cable	Shall be in accordance with the requirements of paragraph 4(10) and (11) of Schedule 8.
39. Cable ducting	Shall be in accordance with the requirements of paragraph 4(12) of Schedule 8.
40. Cable marker tape	Shall be in accordance with the requirements of paragraph 4(13) of Schedule 8.
41. Cable jointing kits	Shall be in accordance with the requirements of paragraph 4(14) of Schedule 8.
42. Control pillars	Shall be in accordance with the requirements of paragraph 4(15) of Schedule 8.”

(14) In Schedule 3 (detailed requirements— setting out of street, site clearance, earthworks, preparation of sub-grade)—

- (a) in paragraph 1(2) after “drains,” there shall be inserted “street lighting cable tracks, column and pillar positions,”; and
- (b) in paragraph 3(2) after the word “to” there shall be inserted “such” and after the word “as” there shall be inserted “are”.

(15) In Schedule 4 (detailed requirements— drainage)—

- (a) in paragraph 1(4) for the words “BS 8005: Part O: 1987 and BS 8005: Part 1: 1987” there shall be substituted “BS EN 752-1: 1996, BS EN 752-2: 1997 and BS EN 752-3: 1997”;
- (b) in paragraph 3(4) after the word “jointed” there shall be inserted “and bedded”;
- (c) in paragraph 3(4) for Table B there shall be substituted the following table—

“Table B

<i>Type of pipe (not exceeding</i>	<i>Joint type 600mm diameter)</i>	<i>Bedding class</i>
Concrete to BS 5911: Part 100: 1988. Standard pipes for diameter not exceeding 300mm: Class M pipe or Class H pipe for diameter greater than 300mm	Flexible spigot and socket joints as described in BS 5911: Part 100: 1988	B

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<i>Type of pipe (not exceeding</i>	<i>Joint type 600mm diameter)</i>	<i>Bedding class</i>
Prestressed concrete pipes to BS 5911: Part 103: 1994	Flexible spigot and socket or rebated joints as described in BS 5911: Part 103: 1994	B
British Standard clay pipes to BS 65: 1991 (1997). Extra strength pipes to be used in all cases	Type 1 sockets with flexible joints as described in BS 65: 1991 (1997)	B
UPVC pipes to BS 5481: 1977 (1998) or BS 4660: 1989 (1998) Perforated concrete pipes to BS 5911: Part 110: 1992	As described in BS 5481: 1977 (1998) or BS 4660: 1989 (1998) Rebated joints as described in BS 5911: Part 110: 1992	E A
Porous concrete pipes to BS 5911: Part 114: 1992	Ogee or rebated joints as described in BS 5911: Part 114: 1992	A”

(d) in paragraph 6(4)(a) for the words “BS 5911: Part 200: 1989” there shall be substituted “BS 5911: Part 200: 1994”;

(e) in paragraph 6(4)(a) for Table D there shall be substituted the following table—

“Table D

<i>Dimension for Precast Concrete Chambers</i>		
<i>Diameter of Pipe in mm</i>	<i>Depth of Chamber in m</i>	<i>Internal Diameter of Chamber in mm</i>
150	up to 3.1	1200
225	up to 3.2	1200
300	up to 3.275	1200
375	up to 3.35	1200
450	up to 3.75	1350
525	up to 3.825	1350
600	up to 3.9	1350
675	up to 4.0	1350
750	up to 4.075	1500
825	up to 4.15	1500
900	up to 4.225	1800”

(f) for paragraph 6(11)(f) there shall be substituted—

“the rungs shall be equally spaced at centres of between 250mm and 300mm and fixed to the stringers in accordance with BS 4211: 1994.”;

(g) in paragraph 6(13) for the words “BS 497: Part 1: 1976 Type MA60” there shall be substituted “BS EN 124: 1994 Class D 400”;

(h) in paragraph 6(16) for the words “BS 497: Part 1: 1976 Type MB 2-60” there shall be substituted “BS EN 124: 1994 Class B 125”;

- (i) for paragraph 7(3) there shall be substituted—
 - “(3) Carriageway, including shared surface, gullies shall be circular 375mm internal diameter in accordance with BS 5911: Part 230: 1994.”; and
 - (j) in paragraph 7(5) for the words “in Table 3 of BS 5911: Part 200: 1989” there shall be substituted “in accordance with BS 5911: Part 230: 1994”.
- (16) In Schedule 5 (detailed requirements — carriageways)—
- (a) in paragraph 2(1) in Table B for the words “BS 6717: Part 3: 1989” there shall be substituted “BS 7533: Part 3: 1997”;
 - (b) in paragraph 2(4) for the words “BS 4483: 1985” there shall be substituted “BS 4483: 1998”;
 - (c) after paragraph 7(8) there shall be added the following sub-paragraph—
 - “(9) Where the sub-base is to be constructed of material used to provide protection to the formation from construction traffic in accordance with paragraph 6(5) the top layers of the material shall be removed to provide the depth required by Table A, B or C as appropriate and the material re-compacted in accordance with the requirements of Table E.”;
 - (d) in paragraph 9(1) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”;
 - (e) in paragraph 9(2) for the words “BS 4987: Part 2: 1988” there shall be substituted “BS 4987: Part 2: 1993”;
 - (f) for paragraph 10(3) there shall be substituted—
 - “(3) The testing of bituminous materials shall be carried out by an approved laboratory as laid down in BS 598: Part 101: 1987; Part 102: 1996; Part 104: 1989 (1996); Part 105: 1990; Part 107: 1990 (1996); Part 108: 1990 and Part 109: 1990; BS 812: Part 102: 1989; BS 812: Part 103: Section 103-1: 1985; BS 812: Part 103: Section 103-2: 1989; BS 812: Part 105: Section 105-1: 1989; BS 812: Part 105: Section 105-2: 1990; BS 812: Part 106: 1985 and BS 882: 1992; BS 812: Part 2: 1995; Part 101: 1984; Part 103: 1985; Part 111: 1990 and Section 105-1: 1989; BS 2000: Part 397: 1995; BS 3690: Part 3: 1990; and copies of the certified results of the tests shall be given to the Department.”;
 - (g) in paragraph 10(6) for the words “BS 598: Part 100: 1987” there shall be substituted “BS 598: Part 100: 1987 (1996)”;
 - (h) in paragraph 11(3) for the words “BS 4987: Part 2: 1988” there shall be substituted “BS 4987: Part 2: 1993”;
 - (i) in paragraph 12(2) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”;
 - (j) in paragraph 12(4) for the words “BS 4987: Part 2: 1988” there shall be substituted “BS 4987: Part 2: 1993”;
 - (k) in paragraph 13(2) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”;
 - (l) in paragraph 13(5) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”;
 - (m) in paragraph 14(2) for the words “BS 4987: Part 1: 1988” there shall be substituted “BS 4987: Part 1: 1993”;

- (n) in paragraph 15 for the words “BS 4987: Part 1: 1988” there shall be substituted “BS 4987: Part 1: 1993”;
 - (o) in paragraph 17(1) for the words “BS 6717: Part 1: 1986” there shall be substituted “BS 6717: Part 1: 1993”;
 - (p) in paragraph 17(2) for the words “BS 6717: Part 3: 1989” there shall be substituted “BS 7533: Part 3: 1997”;
 - (q) in paragraph 17(4) for the words “BS 6677: Part 1: 1986” there shall be substituted “BS 6677: Part 1: 1986 (1997)”; and
 - (r) in paragraph 17(4) after the words “BS 6677: Part 3: 1986” there shall be inserted “and BS 7533: Part 3: 1997”.
- (17) In Schedule 6 (detailed requirements — shared surfaces) in paragraph 2(2)(b)(ii) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”.
- (18) In Schedule 7 (detailed requirements— footways, footpaths, footway crossings, kerbs, steps and stepped ramps, cycle tracks, verges and service strips)—
- (a) in paragraph 2(5) for the words “BS 4987: Part 1: 1988” and “BS 4987: Part 2: 1988” there shall be respectively substituted “BS 4987: Part 1: 1993” and “BS 4987: Part 2: 1993”;
 - (b) in paragraph 2(6) for the words “Subject to sub-paragraph (7) the wearing” there shall be substituted “Wearing”;
 - (c) in paragraph 2(6)(a) for the words “laid to give a compacted depth of 25 mm” there shall be substituted “transported, laid and compacted in accordance with BS 594: Part 2: 1992 to give a compacted depth of 25 mm”;
 - (d) paragraph 2(7) shall be deleted;
 - (e) in paragraph 2(10) for the words “BS 7263: Part 1: 1990” there shall be substituted “BS 7263: Part 1: 1994”;
 - (f) for paragraph 4(2) there shall be substituted—

“(2) Subject to sub-paragraph (6) kerbs shall be laid to provide a 125mm (40mm in shared surfaces) kerb face and shall be 255mm by 125mm hydraulically compressed concrete to BS 7263: Part 1: 1994 Type HB2 of Figure 2 (150mm x 125mm Type BN of Figure 2 in shared surfaces) set on a grade C7.5/40 cast in-situ concrete bed 400 mm wide by 150 mm deep and backed with grade C7.5/40 concrete.”;
 - (g) for paragraph 4(5) there shall be substituted—

“(5) Joints shall be between 5mm and 7mm wide and filled with cement mortar in accordance with BS 7533: Part 4: 1998.”;
 - (h) in paragraph 4(6) for the words “Department of the Environment for Northern Ireland publication “Layout of Housing Roads Design Guide” 1988” there shall be substituted “Department of the Environment and the Department for Regional Development publication Creating Places—achieving quality in residential developments and incorporating guidance on layout and access” published in 2000.
 - (i) in paragraph 4(8)(b) for the words “BS 7263: Part 1: 1990 Type ER or Type EF of Figure 1” there shall be substituted “BS 7263: Part 1: 1994 Type ER or Type EF of Figure 4”;
 - (j) in paragraph 4(9)(b) for the words “BS 7263: Part 1: 1990 Type HB2 of Figure 1” there shall be substituted “BS 7263: Part 1: 1994 Type HB 2 of Figure 2”;
 - (k) in paragraph 5(21) for the words “BS 4483: 1985” there shall be substituted “BS 4483”;
 - and
 - (l) for paragraph 8 there shall be substituted—

“8. Service strips shall be in accordance with the Department of the Environment and the Department for Regional Development publication “Creating Places—achieving quality in residential developments and incorporating guidance on layout and access” published in 2000”.

(19) After Schedule 7 there shall be added the Schedule set out in the Schedule to these regulations.