

IRISH STANDARD SPECIFICATION

PRE-CAST CONCRETE KERBS, CHANNELS, EDGINGS AND QUADRANTS

I.S. 146:1965

Price 8/-

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

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DECLARATION

OF

SPECIFICATION

ENTITLED

PRE-CAST CONCRETE KERBS, CHANNELS,
EDGINGS AND QUADRANTS

AS

THE IRISH STANDARD SPECIFICATION FOR

PRE-CAST CONCRETE KERBS, CHANNELS, EDGINGS AND QUADRANTS

The Institute for Industrial Research and Standards in exercise of the power conferred by subsection (3) of section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Commerce (signified by his Official Seal affixed hereto), hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Pre-Cast Concrete Kerbs, Channels, Edgings and Quadrants) Declaration 1965.

2. (1) The specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Pre-Cast Concrete Kerbs, Channels, Edgings and Quadrants.

(2) The said standard specification may be cited as Irish Standard 146 : 1965 or as I.S. 146 : 1965.

SCHEDULE

Pre-Cast Concrete Kerbs, Channels, Edgings and Quadrants

SCOPE

1. This specification covers the following pre-cast concrete products: kerbs, channels, edgings and quadrants, in a range of sections, lengths and radii, for use in the construction of carriageways and footways.

CEMENT

2. The cement used in the manufacture of the products shall comply in all respects with the requirements of Irish Standard 1 : 1963, Portland Cement. When required by the purchaser cement complying with the following British Standards may be used: B.S. 12 : 1958, Portland Cement (Ordinary and Rapid Hardening), B.S. 146 : 1958, Portland Blastfurnace Cement or B.S. 915 : 1947, High Alumina Cement. Sulphate resisting Portland cement, hydrophobic cement, or coloured cement complying with the physical requirements of B.S. 12 may also be used.

British Standards are published by the British Standards Institution, 2 Park Street, London W.1.

AGGREGATE

3. Aggregate shall be from natural sources and shall comply with the requirements of Irish Standard 5 : 1949, Coarse and Fine Aggregates from Natural Sources for Concrete.

The aggregate or mixture of aggregates shall be approved by the purchaser and no variations or additions to an agreed aggregate shall be made without the consent of the purchaser.

Coarse aggregate, when tested in accordance with the methods of B.S. 812 : 1960, Methods for Sampling and Testing of Mineral Aggregates, Sands and Fillers, shall not exceed the following limits:

Aggregate crushing value	...	30 per cent
Flakiness index	35 per cent

All aggregate shall be of a size appropriate to the sections and method of manufacture of the products.

COLOUR

4. Unless otherwise specified by the purchaser, the products shall be supplied in natural colour. When the products are ordered coloured, the colour shall be agreed between the vendor and the purchaser at the time of placing the order. The vendor and purchaser shall agree whether the products will be coloured throughout or only in a surface layer. If the latter, the surface layer shall be not less than $\frac{1}{2}$ in. thick.

Any pigments used in the colouring of the products shall comply with the requirements of B.S. 1014 : 1961, Pigments for Cement, Magnesium, Oxychloride and Concrete.

PROTECTION FROM FROST

5. No material which has been exposed to temperatures below freezing point shall be used until such material has been completely thawed, nor shall be used until such material has been completely thawed, nor shall products be moulded when the temperature of the mould itself is below freezing point.

Products shall be protected from damage by frost immediately after moulding and for a period of at least 48 hours except where they are steam cured.

MOULDING

6. The products may be made by any process. The escape of the finer particles of mortar during the process of manufacture shall be prevented as far as practicable.

A product described as 'Pressed' shall only be made by employing a pressure of not less than 1000 lbf/in.² over the entire surface receiving the pressure.

DESIGNATION OF PRODUCTS

7. The products shall be designated by the number of this specification, the name of the product, the figure number (Fig. 1 to Fig. 14) of the profile required, and for kerbs, channels and edgings, the width which will be horizontal after laying followed by the overall height, e.g.:

I.S. 146: 1965, straight kerb, Fig. 2, 5 inch x 10 inch.

KERBS

8. (a) *Straight kerbs.* Straight kerbs shall be manufactured in lengths of 3 ft and with a profile corresponding to one of the sections shown in Figs. 1 to 7 and Fig. 9. The profiles shown in Figs. 1, 2, 6 and 7 are preferred. (See NOTES TO USERS).

(b) *Radius kerbs.* Radius kerbs shall have a profile corresponding to one of the sections shown in Figs. 1 to 7 and Fig. 9. The lengths and radii of radius kerbs when measured on the front vertical faces of the kerbs which adjoin the channel shall be as shown in the following table. The profiles shown in Figs. 1, 2, 6 and 7 are preferred.

The radius shall be marked on one of the unexposed faces of each kerb.

External kerbs		Internal kerbs	
Length	Radii	Length	Radii
ft	ft	ft	ft
2(min.)	} 3, 6, 8, 10, 15 } 20, 25, 30, 35, 40	2(min.)	} 6, 10, 15, } 20, 30, 40
3(max.)		3(max.)	

Fig. 15 shows the application of the above nomenclature and dimensions.

CHANNELS

9. (a) *Straight channels.* Straight channels shall be manufactured in lengths of 3 ft and with a profile corresponding to one of the sections shown in Figs. 1, 2, 3 and 8.

(b) *Radius channels.* Radius channels shall have a profile corresponding to one of the sections shown in Figs. 1, 2 and 3 (laid flat) and Fig. 8. The lengths and radii of radius channels shall be those of the faces adjoining the kerbs and shall be as shown in the following table.

The radius shall be marked on one of the unexposed faces of each channel.

External channels		Internal channels	
Length	Radii	Length	Radii
ft	ft	ft	ft
2(min.)	} 3, 6, 8, 10, 15 } 20, 25, 30, 35, 40	2(min.)	} 6, 10, 15, } 20, 30, 40
3(max.)		3(max.)	

Fig. 15 shows the application of the above nomenclature and dimensions.

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