

Section J – STONEWORK

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J.0 **Compliance Materials and Workmanship with the Building Regulations**

In order to demonstrate conformity with the Building Regulations (Part D; Materials and Workmanship) and with the Construction Products Regulation (Regulation (EU) No.305/2011) as set out in national rules for Ireland (S.I. no.225 of 2013), the Contractor shall provide proof (a Declaration of Performance (DoP)) and (where applicable) a CE marking for all building products to be placed in the works.

The Contractor shall ensure that the product to be incorporated in the works, while complying with CPR, is fit for the use for which it is intended. The Contractor may be required to demonstrate this by means of manufacturer's confirmation, or independent testing certificate.

GENERALLY

J.1 **Requirements**

Stonework shall generally comply with the requirements of IS EN 1996-2:2006 (+COR:2009) and the relevant clauses of Section G – Brickwork and Blockwork of this specification in respect of materials and workmanship.

J.2 **Labour**

All stone work shall be carried out by a qualified stonemason of proven ability.

MATERIALS

J.3 **Stone Generally**

The stone, shall unless otherwise specified, be obtained from a single approved source.

The stone shall be free from any defects which could adversely affect the integrity of the stone and shall also be free of any defects on the visible faces, which could mar the appearance of the completed work.

J.4 **Type of Stone and Source**

The type of stone and source shall be to the Architect's Selection and samples shall be submitted for approval before any stone is delivered to site.

J.5 **Re-use of stone**

Where existing stone walling is being taken down for re-use of the stone, the stone is to be properly cleaned of all mortar, vegetable matter, fungi etc. and stored awaiting re-use in accordance with Clause J.15.

J.6 to J.7 **Nil**

J.8 **Materials for Mortar**

Materials for mortar shall be as specified in Section G – Brickwork and Blockwork.

J.9 **Wall ties and fixings**

All wall ties and fixings shall be stainless steel as a specified in Sections G and Q.

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J.10
to Nil
J.14

WORKMANSHIP

J.15 Storage of Stone

All stone ready for use shall be stacked on a clean, dry, free-standing surface, avoiding contact with the soil. The stone shall be protected at all times from freezing.

J.16 Sample Panel of Finished Facework

A sample panel of finished stonework, 1200 X 1200mm, or as directed shall be constructed to the satisfaction of the Architect in an agreed location, until the completion of this work on site, when it shall be removed. This shall become the “approved” sample for all finished facework on site and is to be completed at least 7 working days before this works is programmed to commence on site.

J.17 Mortar Mixes

Mortars shall comply with IS EN 998-2:2010 (+NA:2010) and unless otherwise specified mortar mixes shall be as follows: -

MORTAR TYPE	STONE	
	Limestone	Granite
Cement/Sand	1 : 6 ½ - 7	1 : 3
Cement/Lime/Sand	1 : 3 : 12	1 : 1 : 6

Mixing shall be as Section G – Brickwork and Blockwork.

J.18 Uncoursed Random Rubble

Stones shall be selected to keep cutting to a minimum. Where facing a concrete block wall ties shall be provided 900mm horizontally and 450mm vertically; the ties shall be embedded a minimum of 55mm into the blockwork and 100mm into the stonework.

Where the wall is a free standing, without backing, bonding shall be provided by means of longitudinal bonders on both faces with at least one transverse bonder every meter squared extending two-thirds into the wall thickness.

J.19 Course Random Rubble

Build as for uncoursed work, Clause J.18, but roughly level the work to courses every 450mm of height.

J.20 Jointing and Pointing Random Rubble

From slightly recessed joints as the work proceeds and stipple the surface of the mortar with a stiff

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bristle brush in order to show up the grit in the mix. No joint to exceed 25mm in width.

J.21 Quoins and Jambs

Select stones of larger size and more regular shape for quoins and jambs.

J.22 Site Cutting and Attendance

Keep site cutting to a minimum. Unavoidable cutting, corrective work and attendance on other trades shall be undertaken by a stone mason.

Appendix A: List of References and Standards.

Item No.	Clause	Reference	Comment
1.	J.1	IS EN 1996-2:2006 (+COR:2009)	Eurocode 6 – Design of masonry structures – Part 2: Design considerations, selection of materials and execution of masonry (including Irish National Annex) (to replace BS 5628-3:2005)
2.	J.17	IS EN 998-2:2010 (+NA:2010)	Specification for mortar for masonry – Part 2: masonry mortar. (to replace IS EN 998-2:2003)

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Appendix B: Amendments List	
Date of Amendments	Amendments
1/05/2014	This section was amended by Barry Sheils and approved by David Byrne, Senior Architect, Fingal County Council.