

Section U – GLAZING

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Appendix A: LIST OF REFERENCES AND STANDARDS

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U.0 **Compliance with Materials and Workmanship with 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

U.1 **General Requirements**

All glazing shall be in accordance with the requirements of BS 6262:1982, BS 6262-1:2005, BS 6262-2:2005, BS 6262-3:2005, BS 6262-4:2005, BS 6262-6:2005 and BS 6262-7:2005.

U.2 **Installation**

Installation of glazing shall be in accordance with Clause U.1 and workmanship shall be in accordance with BS 8000-7:1990.

All glazing to be completed before the commencement of the plastering as to the manufacturers recommendations. Where external rendering is carried out after glazing all glass or plastic sheet shall be protected from damage and any scratched or broken glass or plastic sheet shall be replaced at the Contractors expense.

U.3 **Safety**

All glazing must comply with the requirements of BS 6262-3:2005 and BS 6262-4:2005 in respect of safety.

Safety glass or plastic must comply with Class C of BS 6206:1981. In particular safety glass must be used in the following locations:

- (i) all glazing to external doors and side screens.
- (ii) all other glazing any part of which is less than 800 above finished floor level (e.g. low level windows)

Note: BS 6206 is partially superseded by IS EN 12600:2002. BS 6206 is still current and cited in the Technical Guidance Document, Part D, Materials and Workmanship, 2013.

U.4 **Glazing to External Doors and Windows**

Unless otherwise shown all glazing to external doors and windows shall be sealed double glazed units of approved manufacture as Clause U.16.

U.5 **Samples**

Samples not less than 150mm square of special types of glass or plastic sheet are to be submitted for approval, if required by the Architect, before any glass or plastic sheet is cut.

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U.6
To
U.10 **Nil**

MATERIALS

U.11 **Clear float glass**

Clear glass, including Low-E glass, shall be float glass complying with BS 952-1:1995.

The thickness of glass shall be 3mm glass for areas of less than 0.75 square meters and 4mm glass for areas greater than 0.75 square meters but not exceeding 1.50 square meters.

U.12 **Obscure patterned glass**

Obscure patterned glass shall comply with BS 952-1:1995 and unless otherwise specified shall be "Festival" Pattern.

The glass thickness shall be as clause U.11.

U.13 **Georgian Wired Rough Cast Glass**

Georgian wired rough cast glass shall comply with BS 952-1:1995, 6mm thick.

U.14 **Georgian wired polished plate glass**

Georgian wired polished plate glass shall comply with BS 952-1:1995. 6mm thick.

U.15 **Safety glass**

Toughened or laminated safety glass shall be in accordance with BS 952-1:1995.

U.16 **Sealed Double Glazing Units**

Sealed double glazing units to be manufactured using Low-E glass, as Clause U.11, in accordance with IS 330:1987.

The units shall achieve a U-value of 1.60 W/m²K, averaged across the frame and glazing, to comply with the Building Regulations. See reference to N.56: Windows.

U.17
to
U.20 **Nil**

U.21 **Plastic Sheet**

Clear and obscure unbreakable plastic glazing complying with Clause U.3 shall be polycarbonate sheet of approved manufacture. The thickness shall be as recommended by the manufacturer for the size of opening.

U.22 **Setting Blocks**

Setting blocks shall be of plasticised PVC, hammered lead, or sealed hardwood.

U.23 **Location Blocks and Distance Pieces**

Location blocks and distance pieces shall be of elasticised PVC, corresponding to softness number 35-45 of BS 2571:1990.

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U.24 Linseed Oil Putty

Linseed oil putty shall comply with IS 28:1988.

U.25 Nil

U.26 Self-Adhesive Glazing Tape

Self-adhesive glazing tape shall be as approved sample.

U.27 Non-setting Compound

Non-setting compound shall be as approved sample and colour.

U.28 Mastic Sealing Strip

Mastic sealing strip shall be as approved sample.

U.29 to U.30 Nil

WORKMANSHIP

U.31 Glass to be kept free from Moisture

All glass shall be kept dry during transit and storage. Glass becoming moist from condensation or other causes shall be thoroughly dried and aired.

U.32 Nil

U.33 Rebates and Beads

All rebates and beads must be clean, dry and brushed free of dust before glazing commences.

U.34 Edges of Glass

All glass shall have clean cut edges, and edges shall be clean and dry before glazing commences.

U.35 Setting and Location Blocks

Setting and location blocks shall be used in panes of ordinary glazing exceeding 0.2m² and positions and sizes shall be as recommended in BS 6262:1982.

U.36 Use of Glazing Compounds

All glazing compounds including putties, non-setting compounds, two part rubberising compounds, mastic sealing strips and self-adhesive glazing tapes shall be used in accordance with the manufacturer's instructions.

U.37 Glazing without Beads

Glazing in linseed oil or metal casement putty as appropriate shall be executed with proper bed and back putties, sprigs, clips and splayed and mitred front putties. The back putties shall be trimmed off flush with the tops of the rebates and the splayed front putties shall be finished 3mm back from sight line to allow for sealing between glass and putty with paint.

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U.38 Beading to Sealed Double Glazing Units

Beading to sealed double glazing units to be in accordance with window manufacturer's recommendations.

U.39 Bead Glazing to Plastic Sheet

In bead Glazing to plastic sheet there shall be a minimum 2mm bed of silicone sealant on both side of the sheet. The sheet shall be solidly bedded without voids around the perimeter and with the sealant filleted to and above the bead.

U.40 Wired Glass

The wire in wired glass shall extend to the edges and be free from rust. The wires of Georgian wired glass shall be parallel to the framing.

U.41 Protection and Cleaning of Glazing

Protect all new and existing glass and frames from damage, including splashes from mortar, paint etc. at all times until completion of the contract.

Remove all smears and excess compound and sealant. On completion leave inside and outside clean and free from scratches and marks.

U.42

To

Nil

U.45

U.46 Glass Location Schedule – Housing

LOCATION	TYPE OF GLAZING	CLAUSE
Windows to Bedroom, Kitchen/Dining, Living Room	Clear Float Glass	U11
Windows to Bathroom	Obscure Patterned Glass	U12
Front Entrance Door Screen	Obscure Patterned Glass Class C	U12
Rear Entrance Door	Clear Float Glass Class C	U11

U.47 **Nil**

U.48 Gaskets and weather stripping

All Gaskets and weather stripping shall comply with the requirements listed in IS EN 12365-1: 2003, IS EN 12365-2:2003, IS EN 12365-3:2003 and IS EN 12365-4:2003.

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Appendix A: List of References and standards.

Item	Clause no.	Reference	Comment
1.	U.1	BS 6262-1982	Code of practice for glazing for buildings.
2.	U.1	BS 6262-1:2005	Glazing for buildings – Part 1, General methodology for the selection of glazing.
		BS 6262-2:2005	Glazing for buildings – Part 2, Code of practice for energy, light and sound.
		BS 6262-3 2005	Glazing for buildings – Part 3, Code of practice for fire, security and wind loading.
		BS 6262-4 2005	Glazing for buildings – Part 4, Code of practice for safety related to human impact.
		BS 6262-6 2005	Glazing for buildings – Part 6, Code of practice for special applications.
		BS 6262-7 2005	Glazing for buildings – Part 7, Code of practice for the provision of information.
3.	U.2	BS 8000-7:1990	Workmanship on building sites. Code of practice for glazing.
4.	U.3	BS 6206:1981	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings. BS6206 has been partially superseded by IS EN 12600:2002
5.	U.4	IS EN 12600:2002	Glass in building. Pendulum test. Impact test method and classification for flat glass.
6.	U.11	BS 952-1:1995	Glass for glazing. Classification.
7.	U.16	I.S. 330:1987	Hermetically sealed flat double glazing units.
8.	U.23	BS 2571:1990	Specification for general purpose flexible PVC compounds for moulding and extrusion.
9.	U.24	I.S. 28:1988	Linseed oil putty for use in wooden frames.

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Appendix A: List of References and standards.

Item No.	Clause	Reference	Comment
10.	U.48	BS EN 12365-1:2003	Building Hardware – Gasket and weather stripping for doors, windows, shutters and curtain walling – Part 1: Performance requirements and classification.
		BS EN 12365-2:2003	Building Hardware – Gasket and weather stripping for doors, windows, shutters and curtain walling – Part 2: Linear compression force test.
		BS EN 12365-3:2003	Building Hardware – Gasket and weather stripping for doors, windows, shutters and curtain walling – Part 3: Deflection recovery test method.
		BS EN 12365-4:2003	Building Hardware – Gasket and weather stripping for doors, windows shutters and curtain walling – Part 4: Recovery after accelerated ageing test method.

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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.