



Declaration of Performance

Category 1 Aggregate Concrete Masonry Units – Standard Solid

Innishannon , Co Cork

1. *Unique identification code of the product type:*

Code	Description	Strength N/mm ²	Length (mm)	Width (mm)	Height (mm)
100STD7.5N	100mm Solid Standard S7.5	7.5	440	100	215
150STD7.5N	140mm Solid Standard S7.5	7.5	440	140	215
100STD13N	100mm Solid Standard S13	13.0	440	100	215
150STD13N	140mm Solid Standard S13	13.0	440	140	215
100STD20N	100mm Solid Standard S20	20.0	440	100	215
65STD7.5N	65mm Solid Standard S7.5	7.5	440	65	215
330STD7.5	330mm Solid Standard S7.5	7.5	330	100	215

Table 1. Standard Solid Masonry Units

2. *Type, batch or serial number or any other element allowing identification of the construction product:*

Production details are traceable via the dispatch docket.

3. *Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification:*

Common masonry unit for use in load bearing or non-load bearing building and civil engineering applications.

I.S. EN 771-3 Specification for Aggregate Concrete Masonry Units (Dense and lightweight aggregates)

4. *Manufacturer:*

Keohane Readymix Ltd.
Ballygurteen
Rossmore
Clonakilty
Co. Cork.

5. *System of AVCP:*

System 2+

6. *Notified certification body:*

NSAI (identification No. 0050)

7. Declared Performance:

Characteristic	Harmonised Standard	Declared Performance
Dimensional Tolerance	I.S. EN 772-16	D1 (+3mm/-5mm)
Configuration	I.S. EN 1996-1-1 + NA	 Category 1 Group 1 Normal configuration: Vertical
Gross Density	I.S. EN 772-13	>1900 kg/m ³
Net Density	I.S. EN 772-13	>1900 kg/m ³
Compressive Strength	I.S. EN 772-1 (7.3.2. Air Dry/Mortar Capped)	See Table 1 (vertical orientation)
Thermal Conductivity	I.S. EN 1745 Annex A	0.9 (P=50) – 1.9 (P=90) W/mK (λ10, dry)
Water Absorption due to Capillary Action	I.S. EN 772-11	< 20 g/m ² .s
Water Vapour Permeability	I.S. EN 1745 Annex A	5/15μ
Moisture Movement	I.S. EN 772-14	<0.6mm/m
Reaction to Fire	I.S. EN 771-3	Euroclass A1
Shear Bond Strength	I.S. EN 998-2	0.15 N/mm ²
Dangerous Substances	I.S. EN 771-3	None
Durability	Masonry Conditions/Situations in Table 14 (Durability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irish Building Regulations (including Technical Guidance Documents C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 Masonry Conditions/Situations A1 and A2 (Work below or near external ground level) and D (Rendered external walls (other than chimneys, cappings, copings, parapets, sills)) – Classes MX2.1/2.2/3.1; Category 1, Group 1: • net density = 1,500 kg/m³ • declared mean compressive strength = 7.5N/mm² or a declared normalised compressive strength of = 10.5 N/mm² • mortar strength class: M4 (A1 / MX2.1/2.2/3.1), M6 (A2 / MX2.2) Masonry Conditions/Situations A3 (Work below or near external ground level) and C1 and C2 (Unrendered external walls (other than chimneys, cappings, copings, parapets, sills)) – Class MX3.2; Category 1, Group 1: • net density = 1,500 kg/m³ • declared mean compressive strength = 13N/mm² and a declared normalised compressive strength of = 18 N/mm² • mortar strength class: M12 All masonry units produced with aggregate in accordance with I.S. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of I.S. EN 12620, Aggregates for concrete)	• Irish Building Regulations (including Technical Guidance Documents C & D) • Eurocodes • I.S. EN 1996-1-1:2005 (Eurocode 6: Design of masonry structures. General rules for reinforced and unreinforced masonry structures (+A1:2012) (including Irish National Annex +A1:2014)) • I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materials and execution of masonry (includes Irish National Annex - NA:2010)) • S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion of moisture), Clause 5.6 (Durability) & Table 14) • I.S. EN 13914 - 1 & 2: 2016 Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: • A1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2) (2) With Freezing (MX3.1) • A2 - High Risk of Saturation Without Freezing (MX2.2) • A3 - High Risk of Saturation with Freezing (MX3.2) • C1 - Low Risk of Saturation (MX3.1) • C2 - High Risk of Saturation (MX3.2) See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of exposure of completed masonry) of I.S. EN 1996-2:2006: • MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals • MX2.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals • MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals • MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals For Render (including mix, thickness and number of coats), see S.R. 325:2013+A2:2018 (including Clause 5.5.3.2.1 (Applied external surface finishes), Annex E (Specification for mortar for masonry - I.S. EN 998-1 and 2) and Annex F (National guidance to I.S. EN 13914-1:2016)) and I.S. EN 13914-1:2016 (including Clauses 5 (Materials), 6 (Design considerations) and 7 (Work on site, preparation and application of renderings)). Note: Rendering is affected by the combined action of freeze thaw cycles, wind, sun and rain, and their effects will depend upon the degree of exposure. Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing

The performance of this product conforms with the declared performance above. This declaration of performance is issued under the sole responsibility of Keohane Readymix Ltd

Signed for and on behalf of Keohane Readymix Ltd

A handwritten signature in black ink, appearing to be 'K. Egan', is written over a light blue rectangular background.

Quality Manager

Date: 02/03/2025



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**Keohane Readymix Group
Innishannon, Co Cork**

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KR.IS-001

**I.S. EN 771-3 Specification for Masonry Units
Part 3 - Aggregate Concrete Masonry Units**

Category 1 Group 1 Standard Solid Aggregate Concrete Masonry Units

Dimensions:	Length: 330mm, 440mm Width: 65mm, 100mm, 140mm Height: 215mm
Dimensional Tolerance:	Category D1
Configuration:	Group 1 EN 1996 -1-1 Vertical Orientation
Compressive Strength:	7.5 N/mm², 13 N/mm², 20 N/mm² (mean, air-dry, mortar capped)
Dimensional Stability:	Moisture Movement <0.6 mm/m
Shear Bond Strength:	0.15 N/mm² (fixed value)
Reaction to Fire:	Euroclass A1
Water Absorption:	<20g/m².s (not to be left exposed, not for use as DPM)
Water Vapour Diffusion Coefficient:	5/15 μ
Thermal Conductivity:	0.9 (P=50) – 1.9 (P=90) W/mK (λ ₁₀ , dry)
Dangerous Substances:	None
Freeze Thaw Durability:	S.R.325 Tbl 14 Masonry Conditions/Situations and used in accordance with Irish Building Regulations, including Technical Guidance Documents C & D, Eurocodes, I.S. EN 13914 and S.R 325