

NSAI, 1 Swift Square, Northwood, Dublin 9, Ireland, D09 A0E4

Certificate of conformity of the factory production control,

0050 - CPR - 0176

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product(s):

Specification for masonry units – Part 3: Aggregate concrete masonry units (dense and lightweight aggregates)

Placed on the market under the name of:

Roadstone Ltd Huntstown, Finglas, Dublin 11

and produced in the manufacturing plant:

Roadstone Ltd Huntstown, Finglas, Dublin 11

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

I.S. EN 771-3:2011+A1:2015

under system 2+ are applied and that

the factory production control is assessed to be in conformity with the applicable requirements

This certificate was first issued on 6 December 2013 and remains valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

File Number: Approval Date: Last Amended Date: Expiry Date: 1.116.018 6 December 2013 19 September 2024 31 October 2025 Signed:

Mr. Kevin D. Mullaney Director of Certification, NSAI



All valid NSAI certifications are listed on NSAI's website – <u>www.nsai.ie</u>. The continued validity of this certificate may be verified under "Certified Company Search"



DECLARATION OF PERFORMANCE

No.FC15 Category 1 Aggregate Concrete Masonry Unit

Hunstown Brick

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
2060001	Smooth Natural HT Brick	20	215	100	65
2060002	Smooth Charcoal HT Brick	20	215	100	65
2060003	Smooth Terracotta HT Brick	20	215	100	65
2060009	Smooth Straw HT Brick	20	215	100	65
2060013	Smooth Umber HT Brick	20	215	100	65
2060014	Smooth Turf Brown HT Brick	20	215	100	65
2062033	Smooth Russet Blend HT Brick	20	215	100	65
2062036	Smooth Georgian Blend HT Brick	20	215	100	65
2061030	Split Autumn Blend HT Brick	20	215	107.5	65
2061033	Split Russet Blend HT Brick	20	215	107.5	65
2063003	Split Terracotta HT Brick	20	215	107.5	65
2063009	Split Straw HT Brick	20	215	107.5	65
2066001	Rumbled Red Multi HT Brick	20	215	100	65
2066002	Rumbled Golden Multi HT Brick	20	215	100	65
2066003	Rumbled Georgian Blend HT Brick	20	215	100	65
2066004	Rumbled Harvest Blend HT Brick	20	215	100	65

Table 1. Production details can be traced via dispatch docket & details on bail

- Intended use -as an Exposed masonry unit and internal walls in load bearing or non-load bearing building and civil engineering applications (see I.S. EN 771-3 2011 Aggregate Concrete Masonry Units (Dense and Lightweight)) in accordance with Irish Building Regulations (including Technical Guidance Documents A, B,C,D,E & L), Eurocodes, I.S. EN 13914 1 & 2: 2016 (Design, Preparation and Application of External Rendering and Internal Plastering) and 325:2013+A2:2018 (Recommendations for the design of masonry structures in Ireland to Eurocode 6).
- 3. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5)

Roadstone Ltd. Fortunestown Dublin 24



- 4. N/A
- 5. System of AVCP System 2+
- 6. Harmonised Standard: I.S. EN 771-3 2011 + A1 2015 Aggregate Concrete Masonry Units (Dense and Lightweigh

Notified certification body:

National Standards Authority of Ireland (NB 0050) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control, and issued the certificate of constancy of conformity of the factory production control.

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
		Huntstown	0050-CPR-176		

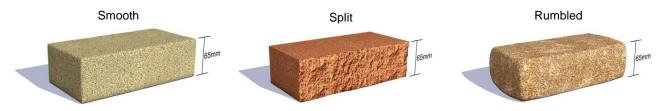
7. Declared Performance

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (12mm, 2mm)	I.S. EN 772-16
Dimensional Tolerance	D1 (+3mm, -3mm)	*Annex C.3 of S.R. 325:2013+A2:2018
	Category 1 to EN 1996-1-1 Group 1 Normal	I.S. EN 1996-1-1 + NA
Configuration	Configuration Vertical Refer to drawings below	*Annex C.5 of S.R. 325:2013+A2:2018
Create Density, Creater 1	>1900kg/m³	I.S. EN 772-13
Gross Density Group1		*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m³	I.S. EN 772-13
	As shown in Table 1 above,	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped)
Compressive Strength (Mean)	in vertical orientation	*Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
Thormal Conductivity	$1.01 \cdot 1.10 W/mK() 10 dm/$	I.S. EN 1745 Annex A (Tabulated)
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry)	*Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	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, and S.R.325:2013+A2:2018 Masonry Conditions/Situations A1, A2, A3 (Work below or near external ground level), C1 and C2 (Unrendered external walls (other than chimneys, cappings, copings, parapets, sills)) – Class MX3.2: F20 & F21 Masonry Conditions/Situations I Capping's, copings and sills MX3.1, MX3.2 Category 1, Group 1: • net density ≥ 1,500 kg/m ³ • declared mean compressive strength ≥ 13N/mm ² and a declared normalised compressive strength of ≥ 18 N/mm ² • mortar strength class: M6 or M12 Dependant on Exposure & Design/protection by overhangs • No Current European or National Test Method for concrete masonry, when tested to EN 772-22. Methods of test for masonry units. Determination of freeze/thaw resistance of clay masonry units. The units can be classified as Freeze/Thaw Resistance Category MX3.2/F2 – Suitable for use in severe exposure All masonry units produced with aggregate in accordance with 1.S. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.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 (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 ofof 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 moisture or wetting and 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 freeze/thaw cycling but not exposed to 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

Water Absorption due to Capillary Action	≤10 g/(m²*s) not to be used as a DPM.	I.S. EN 772 – 11
Moisture Movement	< 0.6 mm/m	I.S. EN 772-14 Movement joints required at 7 Meter centres as per clause 5.4.3.4 of SR 325 (or as specified by competent person) *Annex C.6 of S.R. 325:2013+A2:2018 & Table NA.6 of NA:2010+A1:2014 to I.S. EN 1996-1-1:2005+A1:2012 NDP
Water Vapour Permeability	5/15μ	I.S. EN 1745 Annex A(Tabulated)
Reaction to Fire	Class A1	Based on Commission Decision 200/605 EC amending 96/603 EC (Refer to I.S. EN 1996-1-2 National Annex Table NA. 3.1/3.2 & 3.3 for fire ratings of wall constructed with Class A1 Units) *Building Regulations Part B—Fire Safety
Shear Bond Strength	0,15N/mm² (Tabulated)	I.S. EN 998-2(Tabulated) *Table NA.5 of NA:2010+A1:2014 to I.S. EN 1996- 1-1:2005+A1:2012
Dangerous Substances	None	Cement, Aggregate Water & Admixtures comply with Relevant EN's and National SR's which prohibit the use of Dangerous Substance

*Reference to National Provisions / NDP = National Defined Parameter

Normal Configuration (Vertical)



The performance of the product identified above is in conformity with the declared performance. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011, under the sole responsibility of Roadstone ltd.

Signed for and on behalf of the manufacturer by:Alan Lowe, Senior Technical Manager, Roadstone Ltd.

(Name and Function) Belgard, 06/01/2023 (Place and Date of Issue)

(Signature)



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			ion Body NSA	AI 050			
RL DoP-B1							
Location	FPC Cert No. Location FPC Cert N		No. Location		FP	FPC Cert No.	
		Huntstown	0050-CPR-17	176			
mensions: Leng mensional tole	A1:2015 Category I, th (390mm), Width (rances: Category: D oup 1 unit to EN 199	90mm) Height (190 1		Strength	ntstown	Width	Height
				(N/mm ²)	(mm)	(mm)	(mm)
2060001		th Natural HT Brid		20	215	100	65
2060002		n Charcoal HT Bri		20	215	100	65
2060003	Smooth Terracotta HT Brick			20	215	100	65
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2066004	Rumbled H	Harvest Blend HT	Brick	20	215	100	65
mensional stab ear bond stren exural bond str action to fire: F	Euroclass A1 : ≤10g/m²s (7.5N, not † f usion coefficient:	ement: 0.6 mm/m 5(N/mm ²)	Exposed conditions. Re	fer to the Durabi	ility Below. All stre	ngths: not to be u	ised as a DPM