

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

Certificate of conformity of the factory production control,

0050 - CPR - 0436

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 Toonagh Quarry, Ennis, Co. Clare

and produced in the manufacturing plant:

Roadstone Ltd Toonagh Quarry, Ennis, Co. Clare

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 11 November 2015 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.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: 1.116.083 11 November 2015 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"



No.B1 Category 1 Aggregate Concrete Masonry Unit – Standard Solid

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230002	100mm Solid Standard S7.5	7.5	440	100	215
1230003	140mm Solid Standard S7.5	7.5	440	140	215
1230001	65mm Solid Standard S7.5	7.5	440	65	215
1230004	100mm Solid Standard S13	13.0	440	100	215
1230008	140mm Solid Standard S13	13.0	440	140	215
1230006	100mm Solid Standard S18	18.0	440	100	215
1230005	100mm Solid Standard S24	24.0	440	100	215

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

- 2. Intended use -as a common 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 Lightweight)

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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR -1310		



Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
Dimensional Folerance		*Annex C.3 of S.R. 325:2013+A2:2018
	Category 1 to EN 1996-1-1 Group 1	I.S. EN 1996-1-1 + NA
Configuration	Normal Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	>1900kg/m³	I.S. EN 772-13
	>1900kg/11	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
		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 Energ
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, 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/m ³ • declared mean compressive strength ≥ 7.5N/mm ² or a declared normalised compressive strength of ≥ 10.5 N/mm ² • 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 duals (other than chimneys, cappings, copings, parapets, sills)) – Class 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: M12 All masonry units produced with aggregate in accordance with 1.5. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. 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 unreinforc 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 material and execution of masonry (includes Irish National Anne - NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusic 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 Without Freezing (MX2.1, MX2.2) With Freezing (MX3.1) A2 - 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 expose 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 sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant

Water Absorption due to Capillary Action	≤25 g/(m ^{2*} s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: 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

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, 30/09/2024 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



Roadstone Ltd. Fortunestown Dublin 24		forte polo						
Certification Body NSAI 050 (Belgard SGS 1029) RL DoP-B1								
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.			
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192			
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185			
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183			
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216			
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436			
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138			
Mallow	0050-CPR-137	Ballintra	0050-CPR -1310	Goolg	0030-0-130			
Dimensions: Lengt Dimensional tolera Configuration: Gro	h (440mm), Width (ances: Category: D oup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm)					
Dimensions: Lengt Dimensional tolera Configuration: Gro	h (440mm), Width (ances: Category: D oup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical						
Dimensions: Lengt Dimensional tolera Configuration: Gro	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm)	/mm², 24N/mm² _{(Refer to}				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stree	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, Descript 100mm Solid Sta	/mm², 24N/mm² _{(Refer to} ion indard \$7.5				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stren Code 1230002 1230003	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, <u>Descript</u> 100mm Solid Sta 140mm Solid Sta	/mm², 24N/mm² _{(Refer to} ion indard S7.5 indard S7.5				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stree 1230002 1230003 1230001	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, Descript 100mm Solid Sta 140mm Solid Sta 65mm Solid Sta	/mm², 24N/mm² _{(Refer to} ion indard 57.5 indard 57.5 indard 57.5				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stren Code 1230002 1230003	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, <u>Descript</u> 100mm Solid Sta 140mm Solid Sta	/mm ² , 24N/mm ² (Refer to ion indard S7.5 indard S7.5 ndard S7.5 andard S13				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stren 1230002 1230001 1230001 1230004	h (440mm), Width (ances: Category: D pup 1 unit to EN 199	65mm,100mm,140 91 6-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, Descript 100mm Solid Sta 140mm Solid Sta 65mm Solid Sta 100mm Solid Sta	/mm ² , 24N/mm ² (Refer to ion indard 57.5 indard 57.5 indard 57.5 andard 513 andard 513				
Dimensions: Lengt Dimensional tolera Configuration: Gro Compressive stree 1230002 1230003 1230004 1230008 1230006 1230005	h (440mm), Width (ances: Category: D oup 1 unit to EN 199 ngth: Mean Air-Dry	65mm,100mm,140 91 6-1-1 Vertical 7 Mortar Capped 7.	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, <u>Descript</u> 100mm Solid Sta 140mm Solid Sta 100mm Solid Sta 140mm Solid Sta 100mm Solid Sta 100mm Solid Sta	/mm ² , 24N/mm ² (Refer to ion indard 57.5 indard 57.5 indard 57.5 andard 513 andard 513				
Dimensional tolera Configuration: Gro Compressive stren Code 1230002 1230003 1230004 1230004 1230006 1230005 Dimensional stabi Shear bond streng Flexural bond streng	h (440mm), Width (ances: Category: D oup 1 unit to EN 199 ngth: Mean Air-Dry lity: Moisture Mov gth: Fixed value 0.1 ength: NPD uroclass A1 ≤20g/m ² s (7.5N, not usion coefficient:	65mm,100mm,140 p1 6-1-1 Vertical y Mortar Capped 7. ement: < 0.6 mm/n 5(N/mm ²) to be left unrendered in 5/15μ	mm) Height (215mm) 5N/mm2, 13N/mm ² , 18N, Descript 100mm Solid Sta 140mm Solid Sta 140mm Solid Sta 140mm Solid Sta 100mm Solid Sta 100mm Solid Sta	/mm², 24N/mm² _{(Refer to} ion indard S7.5 indard S7.5 andard S7.5 andard S13 andard S13 andard S18 andard S24	o Docket)			



No. B3 Category 1 Aggregate Concrete Masonry Unit

Standard Group 2 Cavity

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Lengt h (mm)	Width (mm)	Height (mm)	Shell Side (mm)	Shell End (mm)	Web (mm)
1231005	215mm Twin Pot Cavity H5.0	5.0	440	215	215	38	38	58
1231008	215mm Single Pot Cavity H5.0 Half (Football)	5.0	215	215	215	38	38	-
1231006	215mm Twin Pot Cavity H7.5	7.5	440	215	215	38	38	58
1231016	215mm Single Pot Cavity H7.5 Half (Football)	7.5	215	215	215	38	38	-
1231004	215mm Twin Pot Cavity H13	13	440	140	215	30	30	60
1231009	100mm Three Pot Cavity H5.0	5.0	440	215	215	26	30	28
1231007	215mm Single pot Cavity H13 Half (Football)	13	215	215	215	38	38	
1231012	140mm Twin Pot Cavity H5.0	5.0	440	140	215	30	30	60
1231014	140mm Twin Pot Cavity H13	13	440	140	215	30	30	60

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

2. Intended use -as common Group 2 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 Lightweight) Notified certification body:

NSAI (identification No. 050) 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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050=CPR 1310		

Declared Performance	Technical Specification
D1 (+2mm -5mm)	I.S. EN 772-16
	*Annex C.3 of S.R. 325:2013+A2:2018
>1200kg/m ³	I.S. EN 772-13
~ 1200kg/ m	*Building Regulation—Part E (Sound)NDP
>1900kg/m³	I.S. EN 772-13
As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
1.01 - 1.19 W/mK (λ10, dry)	I.S. EN 1745 Annex A (Tabulated)
(215mm cavity Block Thermal resistance 0.210 m²K/W)	*Building Reg.—Part L (Cons. of Fuel and Energy)
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 A, C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 SN/mm ² Category 1, Group 2 Not Reference in Table 14 Durability of masonry in finished construction of SR 325 Masonry Conditions/Situations: D *Rendered external walls, (other than chimneys, canaine conjunc paragets cilled)	 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)
E Internal walls and inner leaves of cavity, MX1 J1 *Rendered <i>Freestanding boundary and screen walls</i> with coping or capping min. 40mm overhang, <i>Classes</i> MX3.1, MX3.2 Category 1, Group 2 • declared mean compressive strength ≥ 7.5N/mm ² • net density ≥ 1,500 kg/m ³ • D & E mortar strength class: M4 • J1 mortar strength class: M6	 I.S. EN 13914 - 1 & 2: 2016 Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: D -* Rendered external walls as in A1 E - Internal walls and inner leaves of cavity walls MX1 as in A1 J1 *Rendered <i>Freestanding boundary and screen</i> <i>walls</i> with coping or capping 40mm overhang, <i>Classes</i> MX3.1, MX3.2 J2 <i>Freestanding boundary and screen walls with</i> <i>cappings 40mm overhang Classes</i> MX3.1, MX3.2 See masonry mortar strength classes in Table NA.3 of
 Masonry Conditions/Situations as above D, E, J1 and J2 Freestanding boundary and screen walls with cooping or capping min. 40mm overhang Classes MX3.1, MX3.2 Category 1, Group 2: declared mean compressive strength ≥ 13N/mm² net density ≥ 1,500 kg/m³ mortar strength class: M6 or M12 Dependant on design/ Exposure class – as advised by engineers. Generally, for use in Sheltered/Moderate Exposure, *render system must prevent the passage of moisture to the inside of the building or damage to the fabric of the building including the walls from excessive moisture. To prevent excessive cracking in the render system and masonry external walls, the walls should be designed with adequate movement joints. 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)	 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: MX1 – In dry conditions MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX2.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting 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 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. the micro and
	D1 (+3mm, -5mm) >1200kg/m³ >1900kg/m³ As shown in Table 1 above, in vertical orientation 1.01 - 1.19 W/mK (\\10, dry) (215mm cavity Block Thermal resistance 0.210 m²K/W) 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 A, C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 SN/mm² Category 1, Group 2 Not Reference in Table 14 Durability of masonry in finished construction of SR 325 Masonry Conditions/Situations: D *Rendered external walls, (other than chimneys, caping, copings, parapets, sills). E Internal walls and inner leaves of cavity, MX1 J1 *Rendered Freestanding boundary and screen walls with coping or capping min. 40mm overhang, Classes MX3.1, MX3.2 Category 1, Group 2 • declared mean compressive strength ≥ 7.5N/mm² • net density ≥ 1,500 kg/m³ • D & & E mortar strength class: M4 • J1 mortar strength class: M6 Masonry Conditions/Situations as above D, E, J1 and J2 Freestanding boundary and screen walls with cooping or capping min. 40mm overhang Classes MX3.1, MX3.2 Category 1, Group 2: • declared mean compressive strength ≥ 13N/mm² • not density ≥ 1,500 kg/m³ • mortar strength class: M6 or M12 Dependant on design/ Exposure class – as advised by engineers. Generally, for use in Sheltered/Moderat

	Category 1 to EN 1996-1-1 Group 2 Normal	I.S. EN 1996-1-1 + NA
Configuration	Configuration Vertical Use widest web on top for optimum mortar bed	*Annex C.5 of S.R. 325:2013+A2:2018
A CONTRACTOR OF	AND AND AND	12 12 10 10 10 10 10 10 10 10 10 10 10 10 10
Water Absorption due to Capillary Action	≤20 g/(m ² *s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: not to be used as a DPM.	I.S. EN 772 – 11
		I.S. EN 772-14
Moisture Movement	< 0.6 mm/m	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)
		Based on Commission Decision 200/605 EC amending 96/603 EC
Reaction to Fire	Class A1	(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/mm ² (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

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, 30/09/2024 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



		Ξ	Roadsto Fortune Dublin	stown			
Certification Body NSAI 050 (Belgard SGS 1029) RL DoP-B3							
	Location FPC Cert No. Location FPC Cert No.		Location	FPC Cert No.			
	Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192	
	Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185	
	Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183	
	Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216	
	Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436	
	Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138	
	Mallow	0050-CPR-137	Ballintra	0050=CPR 1310			

EN 771-3:2011 + A1:2015 Category I, Group 1 Aggregate Concrete Masonry Unit-- Standard Group 2 Cavity

Dimensions: Length (440mm), Width (65mm,100mm,140mm) Height (215mm)

Dimensional tolerances: Category: D1

Configuration: Group 2 unit to EN 1996-1-1 Vertical

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)	Shell Side (mm)	Shell End (mm)	Web (mm)
1231005	215mm Twin Pot Cavity H5.0	5.0	440	215	215	38	38	58
1231008	215mm Single Pot Cavity H5.0 Half (Football)	5.0	215	215	215	38	38	-
1231006	215mm Twin Pot Cavity H7.5	7.5	440	215	215	38	38	58
1231016	215mm Single Pot Cavity H7.5 Half (Football)	7.5	215	215	215	38	38	-
1231004	215mm Twin Pot Cavity H13	13	440	140	215	30	30	60
1231007	215mm Single pot Cavity H5.0 Half (Football)	13	215	215	215	38	38	
1231007	215mm Single pot Cavity H13 Half (Football)	13	215	215	215	38	38	
1231012	140mm Twin Pot Cavity H5.0	5.0	440	140	215	30	30	60
1231014	140mm Twin Pot Cavity H13	13	440	140	215	30	30	60

Compressive strength: Mean Air-Dry Mortar Capped 7.5N/mm2, 13N/mm², (Refer to Docket)

Dimensional stability: Moisture Movement: 0.6 mm/m

Shear bond strength: Fixed value 0.15(N/mm²)

Flexural bond strength: NPD

Reaction to fire: Euroclass A1

Water absorption: ≤20g/m²s (7.5N, not to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM). Water vapour diffusion coefficient: 5/15µ

Direct airborne sound insulation: Gross dry density >1200 kg/m³ Net Density> 1900 kg/m³

Thermal conductivity: 1.01 - 1.19 W/mK (λ10, dry, unit, S1) (215mm cavity Block Thermal resistance 0.210 m²K/W)

Durability against freeze-thaw: 7.5N D, E and J1, ≥13N D, E , J1 & J2 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 Refer to DoP Table 8 Declared Performance

Dangerous substances: None

No.B4 Category 1 Aggregate Concrete Masonry Unit – Fine Texture Solid

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230024	100mm Solid Paint Quality S7.5	7.5	440	100	215
1232007	100mm Solid Fine Texture S7.5	7.5	440	100	215
1232011	65MM Solid Fine Texture S7.5	7.5	440	65	215
1232009	65MM Solid Fine Texture S13	13	440	65	215
1232005	100mm Solid Fine Texture S13	13	440	100	215
1232002	140mm Solid Fine Texture S7.5	7.5	440	140	215
1232001	100mm Solid Fine Texture S18	18	440	100	215

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

2. Intended use -General use as a facing masonry unit as internal walls in load bearing or non-load bearing building and civil engineering applications, units greater than 7.5N can be used in exposed freestanding wall when the micro and macro site conditions are considered by the designer (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). Refer to Declared properties.

3. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5)

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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 Lightweight)

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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR-1310		

Characteristic	Declared Performance	Technical Specification
Dimensional Talayanas		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	I.S. EN 1996-1-1 + NA
Configuration	Normal Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density		I.S. EN 772-13
	>1900kg/m ³	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
		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)	Not to be used as exposed Masonry – if used in external walls Render exposed faces as per guidance below. 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 E Internal walls and inner leaves of cavity walls Classes MX1 Category 1, Group 1: • net density ≥ 1,500 kg/m ³ • declared mean compressive strength ≥ 7.5N/mm ² or a declared normalised compressive strength of ≥ 10.5 N/mm ² • mortar strength class: M4 (<i>C) Unrendered external walls (other than chimneys, cappings, copings, parapets, sills)</i> C1 & C2 (MX 3.1 & 3.2) units greater than 7.5N can be used in exposed freestanding walls when the micro and macro site conditions are considered by the designer. All masonry units produced with aggregate in accordance with 1.5. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. 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: E Internal walls & inner leaves of cavity walls 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: MX1 - In dry conditions MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX2.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw c

Water Absorption due to Capillary Action	<pre>≤20 g/(m^{2*}s)</pre> 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. (units greater than 7.5N can be used in exposed freestanding walls when the micro and macro site conditions are taken into account by the designer.) All strengths: 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

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, 08/01/2023 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



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	Certi	-	NSAI 050 (Belgard RL DoP-B4	SGS 1029)	
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR- 1310		
mensions: Lengt mensional toler onfiguration: Gro	ances: Category: D	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	5N/mm2, 13N/mm ² , _{(Refer}	r to Docket)	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre	th (440mm), Width (ances: Category: D pup 1 unit to EN 199	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer}		
mensions: Lengt mensional toler onfiguration: Gro	th (440mm), Width (ances: Category: D pup 1 unit to EN 199 ngth: Mean Air-Dry	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm)	ion	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre Code	th (440mm), Width (ances: Category: D pup 1 unit to EN 199 ngth: Mean Air-Dry	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} Descript	tion ht Quality S7.5	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre Code 1230024	th (440mm), Width (ances: Category: D bup 1 unit to EN 199 ngth: Mean Air-Dry 4	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} Descript 100mm Solid Pair	nt Quality S7.5 Texture S7.5	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre <u>Code</u> 123200 ²	th (440mm), Width (ances: Category: D bup 1 unit to EN 199 ngth: Mean Air-Dry 4 7	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} Descript 100mm Solid Pair 100mm Solid Fine	tion ht Quality S7.5 e Texture S7.5 Texture S7.5	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre Code 1230024 1232001	th (440mm), Width (ances: Category: E bup 1 unit to EN 199 ngth: Mean Air-Dry 4 7 1 9	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} Descript 100mm Solid Pair 100mm Solid Fine 65MM Solid Fine	tion At Quality S7.5 Texture S7.5 Texture S7.5 Texture S13	
mensions: Lengt mensional toler onfiguration: Gro ompressive stre 123002 123200 123201 123200	th (440mm), Width (ances: Category: D bup 1 unit to EN 199 ngth: Mean Air-Dry 4 7 1 9 5	(65mm,100mm,140 01 (+3-3mm) 16-1-1 Vertical	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} <u>Descript</u> 100mm Solid Pair 100mm Solid Fine 65MM Solid Fine 65MM Solid Fine	tion ht Quality S7.5 e Texture S7.5 e Texture S7.5 e Texture S13 e Texture S13	
mensions: Lengt mensional toler onfiguration: Gro pmpressive stre 123002 123200 123200 123200 123200 123200	th (440mm), Width (ances: Category: D bup 1 unit to EN 199 ngth: Mean Air-Dry 4 7 1 9 5 2	(65mm,100mm,140 D1 (+3-3mm) H6-1-1 Vertical Y Mortar Capped 7.	mm) Height (215mm) 5N/mm2, 13N/mm ² , _{(Refer} <u>Descript</u> 100mm Solid Pair 100mm Solid Fine 65MM Solid Fine 65MM Solid Fine 100mm Solid Fine	tion At Quality S7.5 Texture S7.5 Texture S7.5 Texture S13 Texture S13 Texture S13 Texture S7.5	

Dangerous substances: None

No. B5 Category 1 Aggregate Concrete Masonry Unit -

Fine Texture Group 2 Cavity

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)	Shell Side (mm)	Shell End (mm)	Web (mm)
1233006	215mm Twin Pot Cavity Fine-Texture H5.0	5.0	440	215	215	38	38	58
1233007 /1233009	215mm Single Pot Cavity Fine-Texture H5.0 Half	5.0	215	215	215	38	38	-
1233008	215mm Twin Pot Cavity Fine-Texture H7.5	7.5	440	215	215	38	38	58
1233015	215mm Single Pot Cavity Fine-Texture H7.5 Half	7.5	215	215	215	38	38	-
1233010	215mm Twin Pot Cavity Fine-Texture H13	13.0	440	215	215	38	38	58
1233018	215mm Single Pot Cavity Fine-Texture H13Half	13.0	215	215	215	38	38	-
1232010	215mm Twin Pot Cavity Fine-Texture H18	18.0	440	215	215	38	38	58
1233012	215mm Single Pot Cavity Fine-Texture H13Half	18.0	215	215	215	38	38	-

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

2. Intended use -as Group 2 Facing masonry unit as internal walls in load bearing or non-load bearing building and civil engineering applications and free standing boundary walls in ≥13N/mm² (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 Lightweight) Notified certification body:

NSAI (identification No. 050) 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. SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR -1310		
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RL.DOP-B5 Rev 3 Sept 2024

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -3mm)	I.S. EN 772-16
Dimensional forefahee		*Annex C.3 of S.R. 325:2013+A2:2018
Gross Density	>1200kg/m ³	I.S. EN 772-13
	>1200kg/11	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m ³	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
	1.01 - 1.19 W/mK (λ10, dry)	I.S. EN 1745 Annex A (Tabulated)
Thermal Conductivity	(215mm cavity Block Thermal resistance 0.210 m ² K/W)	*Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)		 *Building Reg.—Part L (Cons. of Fuel and Energy) 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 Without Freezing (MX3.2) C2 - High Risk of Saturation (MX3.1) As in A3 (but Group 1 or Group 2 units) D - Rendered external walls As in A1 (but Group 1 or Group 2 units) E - Internal walls and inner leaves of cavity walls I1 - With coping MX3.1, MX3.2 See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1:2005 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 sulphates or aggressive chemicals MX3.1 - Exposed to osevere wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.2 - Exposed to external sources of significant levels of sulphates or aggressive chemicals
		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 the micro and macro exposure conditions of the site should be accessed by the designer. Performance & Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing

Configuration	Category 1 to EN 1996-1-1 Group 2 Normal Configuration Vertical Use widest web on top for optimum mortar bed	I.S. EN 1996-1-1 + NA *Annex C.5 of S.R. 325:2013+A2:2018
		515
Water Absorption due to Capillary Action	≤20 g/(m ² *s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: 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

Signed for and on behalf of the manufacturer by:

Alan Lowe, Senior Technical Manager, Roadstone Ltd. (Name and Function) Belgard, 30/09/2024 (Place and Date of Issue)

Alar lowe

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.

	CC 13										
For	Roadstone Ltd.FortunestownDublin 24										
		Certificatio	on Bod	y NSAI 05 RL DoP-	• •	rd SGS	1029)				
	Location	FPC Cert No.	Lo	cation	FPC Cer	rt No.	Locat	tion	FPC Ce	ert No.	
	Belgard	1029 – CPR – GB23/00000360	Hur	ntstown	0050-CP	R-176	Castle	mine	0050-CP	R-0192	
	Ballyknockane	0050-CPR-0141	S	lane	0050-CPR-164		164 Tullamore		0050-CPR-0185		
	Bunratty	0050-CPR-0135	A	rklow	0050-CP	R-163	Lag	hy	0050-CF	R-0183	
	Classis	0050-CPR-923	Carr	igtwohill	0050-CP	R-423	Kilma	cow	0050-CF	R-0216	
	Killarney	0050-CPR-922	Ca	stlebar	0050-CPR-157 Ryan's		n's	0050-CPR-436			
	Joseph Hogan's	0050-CPR-346	Ga	alway	0050-CP	R-156	Goo	oig	0050-CI	PR-138	
Mallow 0050-CPR-137 Ballintra 0050-CPR - 1310											
EN	771-3:2011 + A1:20	015 Category I, Group	1 Aggreg	ate Concrete	Masonry U	nit					
~	ode	Description		Strength	Length	Width	Height	Shell	Shell	Web	

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)	Shell Side (mm)	Shell End (mm)	Web (mm)
1233006	215mm Twin Pot Cavity Fine-Texture H5.0	5.0	440	215	215	38	38	58
1233007 /1233009	215mm Single Pot Cavity Fine-Texture H5.0 Half	5.0	215	215	215	38	38	-
1233008	215mm Twin Pot Cavity Fine-Texture H7.5	7.5	440	215	215	38	38	58
1233015	215mm Single Pot Cavity Fine-Texture H7.5 Half	7.5	215	215	215	38	38	-
1233010	215mm Twin Pot Cavity Fine-Texture H13	13.0	440	215	215	38	38	58
1233018	215mm Single Pot Cavity Fine-Texture H13Half	13.0	215	215	215	38	38	-
1232010	215mm Twin Pot Cavity Fine-Texture H18	18.0	440	215	215	38	38	58
1233012	215mm Single Pot Cavity Fine-Texture H13Half	18.0	215	215	215	38	38	-

Dimensions: Length (440mm), Width (65mm,100mm,140mm) Height (215mm)

Dimensional tolerances: Category: D1 (+3-3mm)

Configuration: Group 2 unit to EN 1996-1-1 Vertical

Compressive strength: Mean Air-Dry Mortar Capped 5N/mm², 13N/mm², 18N/mm² (Refer to Docket)

Dimensional stability: Moisture Movement: 0.6 mm/m

Shear bond strength: Fixed value 0.15(N/mm²)

Flexural bond strength: NPD

Reaction to fire: Euroclass A1

Water absorption: ≤20g/m²s (7.5N, not to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM). Water vapour diffusion coefficient: 5/15µ

Direct airborne sound insulation: Gross dry density >1200 kg/m³ Net Density > 1900 kg/m³

Thermal conductivity: 1.01 - 1.19 W/mK (λ10, dry, unit, S1) (215mm cavity Block Thermal resistance 0.210 m²K/W)

Durability against freeze-thaw: Refer to DoP Table 8 Declared Performance 7.5N/mm2- E Internal walls and inner leaves of cavity walls, >13N/mm2 C1 & C2 Work above ground level Unrendered external walls (other than chimneys, cappings, copings, parapets, sills), E Internal walls and inner leaves of cavity walls

Refer to - 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 **Dangerous substances: None**

roadstone

No.B6 Category 1 Aggregate Concrete Masonry Unit – Standard Solid Specials

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230016	100mm Cavity Closer Standard S7.5 (Nib-J)	7.5	440	100/150	215
1234003	Filler Block 18N (450 Range)	18.0	215	100	65
1235003	100mm Soapbar Standard S7.5	7.5	440	100	100
1235010	100mm Soapbar Standard S13	13.0	440	100	100
1235004	100mm Cavity Closer Standard S7.5 (L:D&P)	7.5	440	100/150	215
1235005	140mm Soapbar Standard S7.5	7.5	440	100	140
1236001	140mm Soapbar Standard S13	13.0	440	100	140
1235006	65mm Soapbar Standard S7.5	7.5	440	100	65
1230011	65mm Solid Standard S13	13.0	440	215	65
1235007	100mm Cavity Closer Standard S13 (L:D&P)	13.0	440	100/150	215

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

- 2. Intended use -as a common 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 Lightweight)

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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR -1310		

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
Dimensional rolerance		*Annex C.3 of S.R. 325:2013+A2:2018
Configuration	Category 1 to EN 1996-1-1 Group 1 Normal Configuration Vertical	I.S. EN 1996-1-1 + NA *Annex C.5 of S.R. 325:2013+A2:2018
Crease Density	Soap Bar Filler Block Cavity Osser	
Gross Density	>1900kg/m ³	I.S. EN 772-13
Not Donsity	> 1000kg/m ³	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m ³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
		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, 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 $\ge 1,500 \text{ kg/m}^3$ • declared mean compressive strength $\ge 7.5\text{N/mm}^2$ or a declared mean compressive strength of $\ge 10.5 \text{ N/mm}^2$ • 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 $\ge 1,500 \text{ kg/m}^3$ • declared mean compressive strength $\ge 13\text{N/mm}^2$ and a declared mormalised compressive strength $\ge 13\text{N/mm}^2$ and a declared normalised compressive strength $\ge 13\text{N/mm}^2$ and a declared normalised compressive strength $\ge 13\text{N/mm}^2$ and a declared normalised compressive strength $\le 13\text{N/mm}^2$ and a declared normalised compressive strength $\le 13\text{ R}$. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620, Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of 1.5. EN 12620,	 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 unreinforc masonry structures (+A1:2012) (including Irish Nationa Annex +A1:2014)) I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of material and execution of masonry (includes Irish National Anne NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion 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) A2 - High Risk of Saturation Without Freezing (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 LS. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of expost completed masonry) of LS. EN 1996-2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant le of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant le of sulphates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant le of sulphates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.1 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulphates or aggressive chemicals MX3.1 - Ex

Water Absorption due to Capillary Action	≤20 g/(m ² *s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: 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

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, 30/09/2024 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



Roadstone Ltd. Fortunestown Dublin 24



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Certification Body NSAI 050 (Belgard SGS 1029) RL DoP-B6

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Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156	Gooig	0050-CPR-138
Mallow	0050-CPR-137	Ballintra	0050-CPR -1310		

EN 771-3:2011 + A1:2015 Category I, Group 1 Aggregate Concrete Masonry Unit

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230016	100mm Cavity Closer Standard S7.5 (Nib-J)	7.5	440	100/150	215
1234003	Filler Block 18N (450 Range)	18.0	215	100	65
1235003	100mm Soapbar Standard S7.5	7.5	440	100	100
1235010	100mm Soapbar Standard S13	13.0	440	100	100
1235004	100mm Cavity Closer Standard S7.5 (L:D&P)	7.5	440	100/150	215
1235005	140mm Soapbar Standard S7.5	7.5	440	100	140
1236001	140mm Soapbar Standard S13	13.0	440	100	140
1235006	65mm Soapbar Standard S7.5	7.5	440	100	65
1230011	65mm Solid Standard S13	13.0	440	215	65
1235007	100mm Cavity Closer Standard S13 (L:D&P)	13.0	440	100/150	215

Dimensions: Length (440mm), Width (65mm,100mm,140mm) Height (215mm)

Dimensional tolerances: Category: D1

Configuration: Group 1 unit to EN 1996-1-1 Vertical

Compressive strength: Mean Air-Dry Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm²(Refer to Docket)

Dimensional stability: Moisture Movement: 0.6 mm/m

Shear bond strength: Fixed value 0.15(N/mm²)

Flexural bond strength: NPD

Reaction to fire: Euroclass A1

Water absorption: ≤ 20 g/m²s (7.5N, not to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM). Water vapour diffusion coefficient: $5/15\mu$

Direct airborne sound insulation: Gross dry density >1900 kg/m³

Thermal conductivity: 1.01 - 1.19 W/mK (λ10, dry, unit, S1)

Durability against 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, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325 :2013+A2:2018 Refer to DoP Table 8 Declared Performance

Dangerous substances: None

No.B8 Category 1 Aggregate Concrete Masonry Unit – Aristocrat Solid

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1250010	D1 Aristocrat 100mm Solid Full S7.5	7.5	440	100	215
1250009	D1 Aristocrat 100mm Solid Full S13	13.0	440	100	215
1250048	D1 Aristocrat 100mm Solid Full S18	18.0	440	100	215
1250040	D1 Aristocrat 100mm Solid Full S24	24.0	440	100	215
1250002	Aristocrat 65mm Solid S7.5	7.5	440	65	215
1250088	H1 Aristocrat 140mm Solid Full S18	18	440	140	215
1250080	Aristocrat 65mm Solid S18	18	440	65	215
1250019	450 Range –D17 Aristocrat – 100mm Cavity Closer	13	440	100/215 ^a	215

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

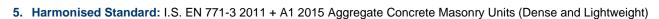
Intended use -General use as a **facing** masonry unit as **internal walls** in load bearing or non-load bearing building and civil engineering applications, units greater than 7.5N can be used in exposed freestanding wall when the micro and macro site conditions are considered by the designer (see I.S. 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) for information on wind driven rain, durability and other National defined provisions and parameters. Also Used for Air leakage control application < 3 m³ / h / m² @ 50 Pascal's

2. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5)

Roadstone Ltd. Fortunestown Dublin 24

3. N/A

4. System of AVCP System 2+



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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Gooig	0050-CPR-138
Ryan's	0050-CPR-436				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -3mm)	I.S. EN 772-16
Dimensional roterance		*Annex C.3 of S.R. 325:2013+A2:2018
	Category 1 to EN 1996-1-1 Group 1	I.S. EN 1996-1-1 + NA
Configuration	Normal Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	> 1000kg /m ³	I.S. EN 772-13
	>1900kg/m³	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m ³	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
Thermal Conductivity	$1.01 \cdot 1.10 W/mK(0.10 drv)$	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)	Aristocrat Blocks are generally used in internal Facing Fairfaced or painted walls, if used in Exposed conditions/situations refer to the information below. 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 E Internal walls & inner leaves of cavity walls Category 1, Group 1: • net density ≥ 1,500 kg/m ³ • declared mean compressive strength of ≥ 10.5 N/mm ² or ≥ 18 N/mm ² • mortar strength class: M4, M6 or M12 to Engineers spec. (C) Unrendered external walls (other than chimneys, cappings, copings, parapets, sills) C1 & C2 (MX 3.1 & 3.2) units greater than 7.5N can be used in exposed freestanding walls when the micro and macro site conditions are considered by the designer. 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) Preferred product for use as masonry in unrendered external walls of buildings is Forticrete as it is designed for this use	 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: E Internal walls & inner leaves of cavity walls 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: MX1 - In a dry environment Generally, built as internal walls but if Rendered for guidance (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 1996-1: 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, the micro and macro exposure conditions of the site should be accessed by the designer Performance & Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing
Water Absorption due to Capillary Action	<pre>≤20 g/(m^{2*}s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. (units greater than 7.5N can be used in exposed freestanding walls when the micro and macro site conditions are taken into account by the designer.) All strengths: not to be used as a DPM. All strengths: not to be used as a DPM.</pre>	I.S. EN 772 – 11

RL.DOP-B8 Rev 3 Sept 2024

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

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, 30/09/2024 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



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Roadstone Ltd. Fortunestown Dublin 24	C A CRH COMPANY				
Certification Body NSAI 050(Belgard SGS 1029)					
RL DoP-B8					

Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360
Ryan's	0050-CPR-436
Gooig	0050-CPR-138
Huntstown	0050-CPR-176

EN 771-3:2011 + A1:2015 Category I, Group 1 Aggregate Concrete Masonry Unit – Aristocrat Solid

Dimensions: Length (440mm), Width (65mm,100mm,140mm) Height (215mm)

Dimensional tolerances: Category: D1 (+3-3mm)

Configuration: Group 1 unit to EN 1996-1-1 Vertical

Compressive strength: Mean Air-Dry Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket)

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1250010	D1 Aristocrat 100mm Solid Full S7.5	7.5	440	100	215
1250009	D1 Aristocrat 100mm Solid Full S13	13.0	440	100	215
1250048	D1 Aristocrat 100mm Solid Full S18	18.0	440	100	215
1250040	D1 Aristocrat 100mm Solid Full S24	24.0	440	100	215
1250002	Aristocrat 65mm Solid S7.5	7.5	440	65	215
1250088	H1 Aristocrat 140mm Solid Full S18	18	440	140	215
1250080	Aristocrat 65mm Solid S18	18	440	65	215
1250019	450 Range –D17 Aristocrat – 100mm Cavity Closer	13	440	100/215 ^a	215

Dimensional stability: Moisture Movement: 0.6 mm/m

Shear bond strength: Fixed value 0.15(N/mm²)

Flexural bond strength: NPD

Reaction to fire: Euroclass A1

Water absorption: ≤ 20 g/m²s (7.5N, not to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM). Water vapour diffusion coefficient: $5/15\mu$

Direct airborne sound insulation: Gross dry density >1900 kg/m³

Thermal conductivity: 1.01 - 1.19 W/mK (λ10, dry, unit, S1)

Durability against freeze-thaw: Aristocrat Blocks are generally used in internal Facing Fairfaced or painted walls,

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 **Refer to DoP Table 8 Declared Performance**

Dangerous substances: None

No.B9 Category 1 Aggregate Concrete Masonry Unit –Aristocrat Group 2 Cavity

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1250013	F10 Aristocrat 215mm Cavity Half	5.0	215	215	215
1250014	F3 Aristocrat 215mm Cavity Full	5.0	440	215	215
1250013	F10 Aristocrat 215mm Cavity Half	7.5	215	215	215
1250049	F3 Aristocrat 215mm Cavity Full	7.5	440	215	215
1250016	F3 Aristocrat 215mm Twin Pot Cavity	13.0	440	215	215
1250039	F10 Aristocrat Half Single Pot Cavity	13.0	215	215	215
1250082	F3 Aristocrat 215mm Twin Pot Cavity	18.0	440	215	215
1250015	F28 Aristocrat Lintel/ U Block	13.0	440	215	215
1250011	Aristocrat 140mm Cavity	5.0	440	140	215

1. Unique identification code of the product type:

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

2. Intended use -General use as a facing masonry unit as internal walls in load bearing or non-load bearing building and civil engineering applications, units greater than 7.5N can be used in exposed freestanding wall when the micro and macro site conditions are considered by the designer (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) for information on wind driven rain, durability and other National defined provisions and parameters. Also Used for Air leakage control application < 3 m³ / h / m² @ 50 Pascal's

3. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5)

I roadstone

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 Lightweight)

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.

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 – Audited and Certified The Belgard Plant 2023/2024

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176	Gooig	0050-CPR-138
Ryan's	0050-CPR-436				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -3mm)	I.S. EN 772-16
		*Annex C.3 of S.R. 325:2013+A2:2018
Gross Density	> 1400/cg/cm ³	I.S. EN 772-13
	>1400kg/m ³	*Building Regulation—Part E (Sound)NDP
Net Density	>2000kg/m³	I.S. EN 772-13
		I.S. EN 772-1 (7.3.2 Air Dry, Mortar
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
	1.01 - 1.19 W/mK (λ10, dry)	LC FN 4745 Anney A (Tabulated)
Thermal Conductivity	(215mm cavity Block Thermal resistance 0.210 $m^{2} K (W)$	I.S. EN 1745 Annex A (Tabulated) *Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	0.210 m ² K/W) Aristocrat Blocks are generally used in internal Facing Fairfaced or painted walls, if used in Exposed conditions/situations refer to the information below. 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 E Internal walls & inner leaves of cavity walls Category 1, Group 1: • net density ≥ 1,500 kg/m ³ • declared mean compressive strength ≥ 7.5N/mm ² or ≥ 13N/mm ² declared normalised compressive strength of ≥ 10.5 N/mm ² or ≥ 18 N/mm ² • mortar strength class: M4, M6 or M12 to Engineers spec. 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 with Freezing (MX2.2) A3 - High 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 and freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to freeze/thaw cycling but not exposed to streeze 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 MX3.2 - Exposed to external sources of significant levels of sulfates or aggressive chemicals MX3.2 - Exposed to external sources of significant levels of sulfates or aggressive chemic

Water Absorption due to Capillary Action	≤20 g/(m ^{2*} s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: not to be used as a DPM.	I.S. EN 772 – 11
Configuration	Category 1 to EN 1996-1-1 Group 2 Normal Configuration Vertical	I.S. EN 1996-1-1 + NA *Annex C.5 of S.R. 325:2013+A2:2018
215 215	Siz AAQ	
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/mm ² (Tabulated)	I.S. EN 998-2(Tabulated)
Dangerous Substances	None	Cement, Aggregate Water & Admixtures comply with Relevant EN's and National SR's which prohibit the use of Dangerous Substance

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, 30/09/2024 (Place and Date of Issue)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unleg suspended or withdrawn by the notified factory production control certification body.

(Signature)

		13
adstone Ltd rtunestown blin 24		A CRH COMPANY
	Certi	fication Body NSAI 050(Belgard SGS 1029)
		RL DoP-B9
Location	FPC Cert No.	
Belgard	1029 – CPR – GB23/00000360	
Ryan's	0050-CPR-436	
Gooig	0050-CPR-138	
Huntstown	0050-CPR-176	
771-3:2011 +	A1:2015 Category I	Group 2 Aggregate Concrete Masonry Unit – Aristocrat Cavity
nensions: Leng	gth (440mm), width (65mm,100mm,140mm) Height (215mm)
nensional tole	rances: Category: D	01 (+3-3mm)
. ()	4 51.400	
nfiguration: G	roup 1 unit to EN 199	6-1-1 Vertical
-		6-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket)
-		
mpressive stro	ength: Mean Air-Dr	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description
mpressive stro Code 12500	ength: Mean Air-Dr	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half
mpressive stro	ength: Mean Air-Dr	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full
mpressive stro Code 12500	ength: Mean Air-Dro 13 14	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half
Code 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 49	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full
mpressive stro Code 12500 12500 12500 12500 12500	ength: Mean Air-Dro 13 14 13 49 16	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity
Code 12500 12500 12500 12500	ength: Mean Air-Dro 13 14 13 49 16	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full
mpressive stro Code 12500 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 49 16 39	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity
Code 12500 12500 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 49 16 39 82	y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity
Code 12500 12500 12500 12500 12500 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 49 16 39 82 15 11	Mortar Capped 7.5N/mm2, 13N/mm2, 18N/mm2, 24N/mm2 (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity
Code 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 49 16 39 82 15 11 bility: Moisture Mov	v Mortar Capped 7.5N/mm2, 13N/mm2, 18N/mm2, 24N/mm2 (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 140mm Cavity ement: 0.6 mm/m
Code 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500	ength: Mean Air-Dry 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 15 11 15 11 11 11 11 11 11 11 11 11 11	v Mortar Capped 7.5N/mm2, 13N/mm2, 18N/mm2, 24N/mm2 (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 140mm Cavity ement: 0.6 mm/m
Code 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500	ength: Mean Air-Dra 13 14 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 15	Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 140mm Cavity ement: 0.6 mm/m
Code 12500	ength: Mean Air-Dry 13 14 15 11 15 15	v Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m 5(N/mm ²)
Code 125000 125000 125000 1250000000000	ength: Mean Air-Dr 13 14 13 14 13 49 16 39 82 15 11 5 1 5 11 11	y Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket)
code 125000 12500 125000 125000 1250000000000	ength: Mean Air-Dry 13 14 13 14 13 49 16 39 82 15 11 5 15 1	y Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket)
code 125000 125000 125000 125000 1250000000000	ength: Mean Air-Dry 13 14 13 14 13 49 16 39 82 15 11 bility: Moisture Mov ngth: Fixed value 0.1 rength: NPD Euroclass A1 1: ≤20g/m ² s (7.5N, not fusion coefficient: ound insulation: C	y Mortar Capped 7.5N/mm2, 13N/mm2, 18N/mm2, 24N/mm2 (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m 5(N/mm2) to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM 5/15µ Gross dry density >1900 kg/m3
code 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 tensional states at bond strer xural bond strer xural bond strer ter absorption ter vapour difect airborne s ermal conduct rability agains isonry Conditions/S ding Regulations (ir	ength: Mean Air-Dry 13 14 13 14 13 49 16 39 82 15 11 bility: Moisture Mov ngth: Fixed value 0.1 rength: NPD Euroclass A1 $1 \le 20g/m^2s$ (7.5N, not fusion coefficient: ound insulation: C ivity: 1.01 - 1.19 W/ of freeze-thaw: Aristo Situations in Table 14 (Do	y Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket) Pescription F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m 5(N/mm²) to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM, 5/15μ Gross dry density >1900 kg/m³ (mK (λ10, dry, unit, S1) brorat Blocks are generally used in internal Facing Fairfaced or painted walls. trability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irist nce Documents C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018
code 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 12500 tensional states at bond strer xural bond strer xural bond strer ter absorption ter vapour difect airborne s ermal conduct rability agains isonry Conditions/S ding Regulations (ir	ength: Mean Air-Dry 13 14 13 14 13 49 16 39 82 15 11 bility: Moisture Mov ogth: Fixed value 0.1 rength: NPD Euroclass A1 rength: NPD rength: N	y Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket) Pescription F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Half F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m 5(N/mm²) to be left unrendered in Exposed conditions. Refer to the Durability Below. All strengths: not to be used as a DPM, 5/15μ Gross dry density >1900 kg/m³ (mK (λ10, dry, unit, S1) brorat Blocks are generally used in internal Facing Fairfaced or painted walls. trability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irist nce Documents C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018



No.B12 Category 1 Aggregate Concrete Masonry Unit

Standard Solid Foundation block

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230050	100mm Solid Standard S13 (300 x 450)	13	440	100	300
1230003	100mm Solid Standard S13 (300 X 350)	13	350	100	300
		Normalized strength 18N/mm ²			

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

- 2. Intended use -as a common 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). Generally used as a foundation block or cavity closer
- 3. Name, registered trade name or registered trademark and contact address of the manufacturer as required under Article 11(5)

roadstome

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 Lightweight)

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.
				Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156		
Mallow	0050-CPR-137				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
		*Annex C.3 of S.R. 325:2013+A2:2018
Configuration	Category 1 to EN 1996-1-1 Group 1	I.S. EN 1996-1-1 + NA
Comgulation	Test Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	>1900kg/m ³	I.S. EN 772-13
	2 1900KS/11	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry)	I.S. EN 1745 Annex A (Tabulated)
merma conductivity	1.01 - 1.19 W/IIIK (X10, 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, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 Masonry Conditions/Situations A3 (Work below or near external ground level) and C1 and C2 (Unrendered external walls (other than chimneys, cappings, copings, parapets, silis)) – Class 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 to Engineers spec. When used in rising walls/footings use Annex E SR21 Type T.2 Permeable/free draining backfill, footpath and rendered plinth 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: A.1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2) (2) With Freezing (MX3.1) A.2 - High Risk of Saturation Without Freezing (MX3.2) A.3 - High Risk of Saturation Without Freezing (MX3.2) C.1 - Low Risk of Saturation (MX3.1) C.2 - 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 ofor 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 MX3.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or 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 MX3.1 - Exposed to severe 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 agg

Water Absorption due to Capillary Action	≤20 g/(m ^{2*} s) 7.5N Not to be left unrendered in Exposed conditions. Refer to the clause Above. All strengths: 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

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, 08/01/2024 (Place and Date of Issue)

(Signature)

This certificate is valid from 8th January 2024 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. Or unless suspended or withdrawn by the notified factory production control certification body.



Roadstone Ltd Fortunestown Dublin 24				tome	
			ion Body NSAI 050 RL DoP-B12)	
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
				Castlemine	0050-CPR-0192
Ballyknockane	0050-CPR-0141	Slane	0050-CPR-164	Tullamore	0050-CPR-0185
Bunratty	0050-CPR-0135	Arklow	0050-CPR-163	Laghy	0050-CPR-0183
Classis	0050-CPR-923	Carrigtwohill	0050-CPR-423	Kilmacow	0050-CPR-0216
Killarney	0050-CPR-922	Castlebar	0050-CPR-157	Ryan's	0050-CPR-436
Joseph Hogan's	0050-CPR-346	Galway	0050-CPR-156		
Mallow	0050-CPR-137				
Dimensions: Leng Dimensional tole Configuration: Gi	gth (440mm or 350), rances: Category: E roup 1 unit to EN 199	01 96-1-1 Vertical		- Foundation Block ngth 18N/mm² (equiv.	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: Gi	gth (440mm or 350), rances: Category: E roup 1 unit to EN 199	01 96-1-1 Vertical	leight (300mm) N/mm ² (Normalized stre Descript	ngth 18N/mm² (equiv. ion	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: Gi Compressive stre	gth (440mm or 350), rances: Category: E roup 1 unit to EN 199 ength: Mean Air-Dro	01 96-1-1 Vertical	leight (300mm) N/mm ² (Normalized stre	ngth 18N/mm² (equiv. ion d S13 (300 x 450)	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: Gr Compressive stru Code 123005	gth (440mm or 350), rances: Category: E roup 1 unit to EN 199 ength: Mean Air-Dro	01 96-1-1 Vertical	leight (300mm) N/mm ² (Normalized stre Descript 100mm Solid Standar	ngth 18N/mm² (equiv. ion d S13 (300 x 450)	100mm cube strengt