Certificate of Conformity of the Factory Production Control 1029 – CPR – GB23/00000360



In compliance with Regulation 305/2011/EU 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

Aggregate concrete masonry units (dense and lightweight aggregates).

placed on the market under the name or trade mark of

Roadstone Ltd

Fortunestown, Belgard, Dublin, Ireland

and produced in the manufacturing plant

Roadstone Ltd

Fortunestown, Belgard, Dublin, Ireland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(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 is valid from 23 October 2023 until 22 October 2026

and will remain 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

Issue 1. Certified with SGS since 23 October 2023 Organization certified since 10 December 2013 and first certified by SGS on 23 October 2023.

Authorised by Luis Neves Certification Management

Authorised by Luis Santos Certification Management

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 Polo Tecnológico de Lisboa, Rua Cesina Adães Bermudes, lote 11, nº 1, 1600-604 Lisboa – Portugal t +351 217104200 Email: pt.info@sgs.com - www.sgs.pt



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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.

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 MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling or external sources of significant levels of sulphates or aggressive chemicals MX2.2 - Exposed to severe wetting and freeze/thaw cycling but not

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 01 6-1-1 Vertical	mm) Height (215mm)					
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						
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.

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/ 11	*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 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 • 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

	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 CASE CONTRACTOR OF CONTRACTO	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)

foadstone

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.
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 (C) Unrendered external walls (other than chinneys, coppings, copings, paropets, 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 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.



oadstone Ltd. ortunestown ublin 24				tome	
	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 Code 123002 123200	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
		512
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/mm²)	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.

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 Ener
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 $\le 13\text{ R}$. 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

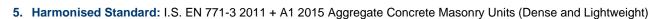
Intended use -General use as a **facing** masonry unit as **internal walls** in load bearing or non-load bearing building and civil engineering applications, units greater than 7.5N can be used in exposed freestanding wall when the micro and macro site conditions are considered by the designer (see I.S.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

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 C C C C C C C C C C C C C C C C C C			
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.

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)	
Thermal Conductivity	(215mm cavity Block Thermal resistance	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 MX3.2 - Exposed to severe wetting and freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to severe wetting and freeze/thaw cycling but not exposed to freeze/thaw cycling but not exposed to streeze 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 - 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
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	550 580 550 580 510 640	
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)

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adstone Ltd. rtunestown blin 24		A CRH COMPANY
	Cert	ification 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 Catagory I	Group 2 Aggregate Concrete Masonry Unit – Aristocrat Cavity
nfiguration: Gr	rances: Category: E roup 1 unit to EN 199 ength: Mean Air-Dr	
nfiguration: Gr	oup 1 unit to EN 199	96-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket)
nfiguration: Gr	roup 1 unit to EN 199 Ength: Mean Air-Dr	06-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description
nfiguration: Gr npressive stre Code 125001	roup 1 unit to EN 199 ength: Mean Air-Dr	96-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Description F10 Aristocrat 215mm Cavity Half
nfiguration: Gr mpressive stre Code 125001	roup 1 unit to EN 199 ength: Mean Air-Dr 13	96-1-1 Vertical 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
nfiguration: Gr mpressive stre Code 125001 125001 125001	ength: Mean Air-Dr 13 13	06-1-1 Vertical 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
nfiguration: Gr npressive stre Code 125001 125001 125004	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13	06-1-1 Vertical 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
nfiguration: Gr mpressive stre 125001 125001 125004 125004 125004	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 19 16	06-1-1 Vertical 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 Cavity Full F3 Aristocrat 215mm Twin Pot Cavity
nfiguration: Gr npressive stre 125001 125001 125004 125004 125003	ength: Mean Air-Dr angth: Mean Air-Dr 13 14 13 14 13 19 16 39	06-1-1 Vertical 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 Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat Half Single Pot Cavity
nfiguration: Gr mpressive stre 125001 125001 125004 125004 125003 125003	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 14 13 19 16 39 32	06-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F10 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 F3 Aristocrat 215mm Twin Pot Cavity
nfiguration: Gr npressive stre 125001 125001 125004 125004 125003	Poup 1 unit to EN 199 Pength: Mean Air-Dr 13 14 13 14 13 19 16 39 32 15	06-1-1 Vertical 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
nfiguration: Gr mpressive stre 125001 125001 125004 125004 125003 125003 125004 125001 125001 125001 125001 125001 125001	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 13 14 15 15 11 15 11 15 11 15 11 15 11 15 11 15 11 15 15	26-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F10 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 14lf Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m
nfiguration: Gr mpressive stre 125001 125001 125004 125004 125003 125008 125008 125001 125001 125001 125001 125001 125001 125001 125001	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 14 13 14 13 19 16 39 32 15 11 5 11 5 11 5 11 5 11 5 11 5 11 5 11 5 11 5 11 5 12 5 13 14 15 15 11 11	D6-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm ² , 18N/mm ² , 24N/mm ² (Refer to Docket) Description F10 Aristocrat 215mm Cavity Half F10 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Full F10 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 41f Single Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity ement: 0.6 mm/m
nfiguration: Gr npressive stre Code 125001 125001 125001 125001 125003 125001 125001 125001 125001 125001 125001 nensional state ear bond stren stural bond stren stural bond stren	ength: Mean Air-Dr ength: Mean Air-Dr angla 13 14 15 15 11 15 15	26-1-1 Vertical 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 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat 140mm Cavity ement: 0.6 mm/m 5(N/mm²)
nfiguration: Gr npressive stre Code 125001 125001 125001 125001 125003 125003 125001 125001 125001 125001 nensional stab ear bond stren stural bond stren ster absorption	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 14 13 19 16 39 32 15 11 bility: Moisture Move ogh: Fixed value 0.1 ength: NPD Euroclass A1 i: $\leq 20g/m^2s$ (7.5N, not	196-1-1 Vertical 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 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat Lintel/ U Block Aristocrat 140mm Cavity rement: 0.6 mm/m 5(N/mm ²)
nfiguration: Gr mpressive stre 125001 125001 125002 125002 125003 125003 125003 125003 125004 125001 1250000 125000 1250000 1250000000000	roup 1 unit to EN 199 ength: Mean Air-Dr 13 14 13 14 13 14 13 19 16 39 32 15 11 11	26-1-1 Vertical 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 Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 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
nfiguration: Gr npressive stre Code 125001 125001 125001 125001 125003 125003 125003 125001 125001 125001 125001 nensional state ear bond stren kural bond stre	roup 1 unit to EN 199 rength: Mean Air-Dr and Air-D	26-1-1 Vertical y Mortar Capped 7.5N/mm2, 13N/mm², 18N/mm², 24N/mm² (Refer to Docket)
nfiguration: Gr mpressive stre 125001 125001 125001 125002 125003 125003 125003 125003 125003 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125001 125003 125003 125003 125003 125004 125001 125004 125000000000000000000000000000000000000	roup 1 unit to EN 199 rength: Mean Air-Dr angth: Mean Air-Dr angth: Mean Air-Dr angth: Mean Air-Dr angth: Angther angth: Angther angth: Angther angth: NPD Euroclass A1 $a_{12} \leq 20g/m^{2}s$ (7.5N, not fusion coefficient fusion coefficient ound insulation: C ivity: 1.01 - 1.19 W/ t freeze-thaw: Ariste ituations in Table 14 (D	26-1-1 Vertical 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 Full F3 Aristocrat 215mm Cavity Full F3 Aristocrat 215mm Twin Pot Cavity F10 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F3 Aristocrat 215mm Twin Pot Cavity F28 Aristocrat 215mm Twin Pot Cavity F28 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) orrat Blocks are generally used in internal Facing Fairfaced or painted walls. urability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Iristince Description

No.B10 Category 1 Aggregate Concrete Masonry Unit -7.5N Liteblock

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1239003	Thermal Liteblock 100mm Solid	7.5	440	100	215
1239033	Thermal Liteblock 100mm Soapbar	7.5	440	100	100
1239034	Thermal Liteblock 100mm Stock Brick	7.5	215	100	65
1239035	Thermal Liteblock 140mm Solid	7.5	440	140	215
1239036	Thermal Liteblock 140mm Soapbar	7.5	440	100	140
1239037	Thermal Liteblock 100mm L Block	7.5	440	100 (175)	215
1239038	Thermal Liteblock 100mm L Block	7.5	440	100 (150)	215

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

- 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)

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 Roadstone Ltd. Fortunestown Dublin 24

5. N/A

- 6. System of AVCP System 2+
- 7. 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.
Belgard	1029 – CPR – GB23/00000360				

Dimensional Tolerance Configuration Gross Density	D1 (+3mm, -5mm) Category 1 to EN 1996-1-1 Group 1 Normal Configuration Vertical ≤1250kg/m³	I.S. EN 772-16 *Annex C.3 of S.R. 325:2013+A2:2018 I.S. EN 1996-1-1 + NA *Annex C.5 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
-	Normal Configuration Vertical	
Gross Density		
Gross Density	<1250kg/m ³	
	SIZJOKG/III	I.S. EN 772-13
Not Donsity	<1250kg (m ³	*Building Regulation—Part E (Sound)NDP
Net Density	≤1250kg /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	0.33 W/mK (λ _{10,dry})	Compatible with Part L requirements, publishe Psi values avaialble at roadstone.ie/product/thermal- liteblock/#thermal-bridging-details
		*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 mason structures. General rules for reinforced and unreinfor masonry structures (+A1:2012) (including Irish Nation Annex +A1:2014)) I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materia and execution of masonry (includes Irish National Ann - NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclus of moisture), Clause 5.6 (Durability) & Table 14) I.S. EN 13914 - 1 & 2: 2016
	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	Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1-1:2005 E Internal walls & inner leaves of cavity walls
Durability (freeze/thaw)	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 or M6 to Engineers spec. Units produced with aggregate in accordance with 1.5. EN 13055-1 :2002 lightweight aggregates -part 1:lightweight aggregate s for concrete , MOrtar and grout.	 Table A.1 (Classification of micro conditions of expose of of completed masonry) of I.S. EN 1996-2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX2.2 - Exposed to severe wetting but not exposed freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external source 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 significat levels of sulfates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significat levels of sulfates or aggressive chemicals For Render (including mix, thickness and number of coats), see S.R. 325:2013+A2:2018 (including Clause 5.5.3.2.1 (Applied external surface finishes), Annex E (Specification for mortar for masonry - I.S. EN 998-1 a 2) and Annex F (National guidance to I.S. EN 13914-
Nater Absorption due to Capillary Action	133.13g/m ² .s 7.5N Not to be left unrendered in Exposed conditions.	1:2016)) and I.S. EN 13914-1:2016 (including Clauses ! (Materials), 6 (Design considerations) and 7 (Work on site, preparation and application of renderings)). Note Rendering is affected by the combined action of freez thaw cycles, wind, sun and rain, and their effects will depend upon the degree of exposure. Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing I.S. EN 772 – 11

RL.DOP-B10 Rev 0 January 2024

	All strengths: not to be used as a DPM.	
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)
		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
		I.S. EN 998-2(Tabulated)
Shear Bond Strength	0,15N/mm 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, 15/01/2024 (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.



ortunestown ublin 24			R	ID DO SU	ome		
is ICS – Serviços II	nternacionais de Certi	-	ied Body 10 RL DoP-B		d Certified The	Belgard Plant 2	023/2024
Location	FPC Cert No.	Location	FPC	Cert No.	Location	FF	PC Cert No.
Belgard	1029 – CPR – GB23/00000360						
Code 1239003		scription block 100mm So	lid	Strength (N/mm ²) 7.5	Length (mm) 440	Width (mm) 100	Height (mm) 215
1239033		ock 100mm Soa	-	7.5	440	100	100
1239034		ck 100mm Stock		7.5	215	100	65
1239035		block 140mm So	-	7.5	440	140	215
1239036	Thermal Litebl	ock 140mm Soa	obar	7.5	440	100	140
1239037	Thermal Liteb	lock 100mm L Bl	ock	7.5	440	100 (175)	215
1239038	Thermal Liteb	lock 100mm L Bl	ock	7.5	440	100 (150)	215
mensional tole	gth (440mm), Width (6 Frances: Category: D roup 1 unit to EN 1996	1 5-1-1 Vertical		nt (215mm)			
mensional stal	•	ment: 0.6 mm/m	.5N/mm²,				
ater vapour dif	1: 133.13g/m ² .s(7.5N, not fusion coefficient: ound insulation: G	5/15µ			Durability Below. A	ll strengths: not to b	e used as a DPN
	t ivity: 0.35 W/mK (λ	10,dry Compatible wit	th Part L req	uirements, publish	ed Psi values av	aialble at	

No.B11 Category 1 Aggregate Concrete Masonry Unit –13N Liteblock

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1239039	Thermal Liteblock 100mm Solid	13.0	440	100	215
1239043	Thermal Liteblock 100mm Soapbar	13.0	440	100	100
1239044	Thermal Liteblock 100mm Stock Brick	13.0	215	100	65
1239040	Thermal Liteblock 140mm Solid	13.0	440	140	215
1239042	Thermal Liteblock 140mm Soapbar	13.0	440	100	140
1239045	Thermal Liteblock 100mm L Block	13.0	440	100 (175)	215
1239041	Thermal Liteblock 100mm L Block	13.0	440	100 (150)	215

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

- 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

C A CRH COMPANY

5. N/A

6. System of AVCP System 2+

7. Harmonised Standard: I.S. EN 771-3 2011 + A1 2015 Aggregate Concrete Masonry Units (Dense and Lightweight)

Notified certification body:

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	1029 – CPR – GB23/00000360				

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
Gross Density		I.S. EN 772-13
,	≤1250kg/m ³	*Building Regulation—Part E (Sound)NDP
Net Density	≤1250kg /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	0.35 W/mK (λ _{10,dry})	Compatible with Part L requirements, published Psi values avaialble at roadstone.ie/product/thermal- liteblock/#thermal-bridging-details *Building Req.—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, 1.5. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 Masonry Conditions/Situations A3 (Work below or near external ground level, E Internal walls & inner leaves of cavity walls and D Rendered external walls (other than chimneys, cappings, copings, parapets, sills) Category 1, Group 1: • declared mean compressive strength ≥ 13N/mm ² and a declared normalised compressive strength ≥ 13N/mm ² where a 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 • No Current European or National Test Method for concrete masonry, when tested to EN 772-22. Methods of test for masonry units. Determination of freeze/thaw resistance of clay masonry units. The units can be classified as Freeze/Thaw Resistance Category MX3.2 Units produced with aggregate in accordance with 1.5. EN 13055-1:2002 lightweight aggregates -part 1:lightweight aggregates for concrete , mortar and grout.	 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) (2 - High Risk of Saturation (MX3.2) C1 - Low Risk of Saturation (MX3.2) C2 - High Risk of Saturation (MX3.2) D- Rendered external walls (other than chimneys, cappings, copings, parapets, sills) E- 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 ofof freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to osvere 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 MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exp

Water Absorption due to Capillary Action	133.13g/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) 08/01/2024 Belgard, (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 unless suspended or withdrawn by the notified factory production control certification body.

(Signature)



Roadstone Ltd Fortunestown Dublin 24			R		one		
SGS ICS – Serviços I	nternacionais de Certi	-	ed Body 10		d Certified The	Belgard Plant 2	2023/2024
Location	FPC Cert No.	Location	FPC (Cert No.	Location	FI	PC Cert No.
Belgard	1029 – CPR – GB23/00000360						
Code	De	scription		Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1239039	Thermal Liteblock 100mm Solid		13.0	440	100	215	
1239043	Thermal Liteblock 100mm Soapbar		13.0	440	100	100	
1239044	Thermal Liteblock 100mm Stock Brick		13.0	215	100	65	
1239040	Thermal Liteblock 140mm Solid		13.0	440	140	215	
1239042	Thermal Liteblock 140mm Soapbar		13.0	440	100	140	
1239045	Thermal Liteb	lock 100mm L Ble	ock	13.0	440	100 (175)	215
1239041	Thermal Liteblock 100mm L Block			13.0	440	100 (150)	215
Dimensional tole Configuration: G Compressive str Dimensional sta Shear bond stre Flexural bond st Reaction to fire: Water absorption Water vapour dif	•	L 5-1-1 Vertical Mortar Capped 13 ment: 0.6 mm/m (N/mm ²) to be left unrendered in 5/15µ	N/mm ² , Exposed conc		Durability Below. A	ll strengths: not to b	e used as a DPM
roadstone.ie/product Durability agains walls and D Rendered ex	tivity: 0.35 W/mK (λ /thermal-liteblock/#therr st freeze-thaw: Maso (ternal walls (other than chin ble 8 Declared Perf	nal-bridging-details nry Conditions/Situation nneys, cappings, copings	ns A3 (Work b	elow or near extern			r leaves of cavity



No.B13 Category 1 Aggregate Concrete Masonry Unit -

EXOBlock 25% Void Common Solid

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1230025	100mm Solid 25% Void S7.5	7.5	440	100	215
1230027	100mm Solid 25% Void S13	13	440	100	215
	Solid Grouping based on the Geometrical Definition of a Group 1 Solid given in Table 3.1 of I.S. EN 1996-1 Volume of all holes ≤25%				

 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). Use only in the vertical orientation.
- 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:

SGS ICS – Serviços Internacionais de Certificação, Lda, Notified Body 1029 performed the 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.
Belgard	1029-CPR- GB23/00000360				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
	D1 (+5iiiii, -5iiiii)	*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	Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	>1450kg/m³	I.S. EN 772-13
		*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	$1.01 \cdot 1.10 W/mK() 10 dm)$	I.S. EN 1745 Annex A (Tabulated)
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry)	*Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	Masonry Conditions/Situations in Table 14 (Durability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irish Building Regulations (including Technical Guidance Documents C & D), Eurocodes, 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 \geq 1,500 kg/m ³ • declared mean compressive strength of \geq 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 walls (other than chimneys, cappings, copings, parapets, sills)) – Class MX3.2: Category 1, Group 1: • net density \geq 1,500 kg/m ³ • declared mean compressive strength \geq 13N/mm ² and a declared normalised compressive strength of \geq 18 N/mm ² • mortar strength class: M12 All masonry units produced with aggregate in accordance with I.S. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of I.S. EN 12620, Aggregates for concrete)	 Irish Building Regulations (including Technical Guidance Documents C & D) Eurocodes I.S. EN 1996-1-1:2005 (Eurocode 6: Design of masonry structures. General rules for reinforced and unreinforced masonry structures (+A1:2012) (including Irish National Annex +A1:2014)) I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materials and execution of masonry (includes Irish National Annex - NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion of moisture), Clause 5.6 (Durability) & Table 14) I.S. EN 13914 - 1 & 2: 2016 Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: A1 - Low Risk of Saturation (1) Without Freezing (MX2.1) A2 - High Risk of Saturation Without Freezing (MX2.2) (2) With Freezing (MX3.1) A2 - 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 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 MX3.2 - 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 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

		thickness and number of coats and correct detailing
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, 29/11/2023 (Place and Date of Issue)

(Signature)

This certificate is valid from 23 October 2023 until 22 October 2026 and will remain 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.

EXOblock wire diagram - produced and delivered orientation - unit is used inverted to give a full mortar bed.

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Roadstone Ltd Fortunestown Dublin 24			13	tome				
	Cer		SGS Notified Boo DoP-B13	ly 1029				
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.			
Belgard	1029-CPR- GB23/00000360							
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/mm ² , 18N/mm ² , 24N/mm ² _(Refer to Docket) Code Description 1230025 EXOblock 100mm Solid 25% Void S7.5 1230027 EXOblock 100mm Solid 25% Void S13								
Dimensional stability: Moisture Movement: 0.6 mm/m Shear bond strength: Fixed value 0.15(N/mm ²)								
	Euroclass A1 n: ≤20g/m ² s (7.5N, not to		osed conditions. Refer to the	Durability Below. All strengths:	not to be used as a DPM).			
Thermal conduct Durability agains 325:2013+A2:2018 and & 2: 2016 and S.R. 325	sound insulation: Gro tivity: 1.01 - 1.19 W/m St freeze-thaw: Masor d used in accordance with In	coss dry density >190 K (λ10, dry, unit, S1 ary Conditions/Situation rish Building Regulation) s in Table 14 (Durability of I	masonry in finished construct ance Documents C & D), Eur				

No.B16 Category 1 Aggregate Concrete Masonry Unit – Aristocrat Modular Solid

1. Unique identification code of the product type:

Code	Description	Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)
1250001	K1 Aristocrat 90mm Solid Full S7.5	7.5	390	90	190
1250058	K12 ARISTOCRAT 90MM HALF SOILD S7.5	7.5	190	90	190

 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+
- 5. 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.
Belgard	1029 – CPR – GB23/00000360	Huntstown	0050-CPR-176		

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1(12mm, 2mm)	I.S. EN 772-16
Dimensional rolerance	D1 (+3mm, -3mm)	*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 *Annex C.5 of S.R. 325:2013+A2:2018
	Normal Configuration Vertical	Annex ets of 5.1. 525.2015 742.2010
Gross Density	>1900kg/m³	I.S. EN 772-13
Net Density	× 1000kr /m3	*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)	 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/m³ declared mean compressive strength ≥ 7.5N/mm² or ≥ 13N/mm² declared normalised compressive strength of ≥ 10.5 N/mm² or ≥ 18 N/mm² 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 1994-1:2016) and I.S. EN 13914-1:2016 (including Clauses 5 (Materials), 6 (Design considerations) and 7 (Work on site, preparation and application of renderings)). Note: Rendering is affected by the combined action of freeze thaw cycles, wind, sun and rain, and their effects will depend upon the degree of exposure. Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing
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
		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)

RL.DOP-B16 Rev 0 Aug 2024

	Class A1	Based on Commission Decision 200/605 EC amending 96/603 EC	
Reaction to Fire		(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	
		I.S. EN 998-2(Tabulated)	
Shear Bond Strength	0,15N/mm 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.



ortunestown ublin 24			one		
	Certification Body NSAI 05 RL DoP-	• •	SGS 1029)		
Location	FPC Cert No.				
Belgard	1029 – CPR –				
Huntstown	GB23/00000360 0050-CPR-176				
mensions: Lengt mensional tolera onfiguration: Gro	1:2015 Category I, Group 1 Aggregate Concrete h (390mm), Width (90mm) Height (190mm) ances: Category: D1 (+3-3mm) oup 1 unit to EN 1996-1-1 Vertical ngth: Mean Air-Dry Mortar Capped 7.5N/mm ² ,		- Aristocrat Mo	odular Solid	
mensions: Lengt mensional tolera onfiguration: Gro	h (390mm), Width (90mm) Height (190mm) ances: Category: D1 (+3-3mm) oup 1 unit to EN 1996-1-1 Vertical		- Aristocrat Mo	odular Solid Width (mm)	Height (mm)
mensions: Lengt mensional toler onfiguration: Gro ompressive stree	h (390mm), Width (90mm) Height (190mm) ances: Category: D1 (+3-3mm) oup 1 unit to EN 1996-1-1 Vertical ngth: Mean Air-Dry Mortar Capped 7.5N/mm ² , 1	(Refer to Docket)	Length	Width	_
mensions: Lengt mensional tolera onfiguration: Gro ompressive stree Code	h (390mm), Width (90mm) Height (190mm) ances: Category: D1 (+3-3mm) oup 1 unit to EN 1996-1-1 Vertical ngth: Mean Air-Dry Mortar Capped 7.5N/mm ² , 1 Description	(Refer to Docket) Strength (N/mm ²)	Length (mm)	Width (mm)	(mm)
mensions: Lengt mensional toler: onfiguration: Gro ompressive stree Code 1250001	h (390mm), Width (90mm) Height (190mm) ances: Category: D1 (+3-3mm) oup 1 unit to EN 1996-1-1 Vertical ngth: Mean Air-Dry Mortar Capped 7.5N/mm ² , Description K1 Aristocrat 90mm Solid Full S7.5	(Refer to Docket) Strength (N/mm ²) 7.5	Length (mm) 390	Width (mm) 90	(mm) 190

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