

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

0050 - CPR - 0163

System 2+

In compliance with the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC, it has been stated that the construction product:

Specification for Masonry Units - Part 3: Aggregate Concrete Masonry Units in accordance with Annex ZA of the following:

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

Placed on the market by:

Roadstone Ltd Arklow Co. Wicklow Y14 WF96

and produced in the factory:

Roadstone Ltd Arklow Co. Wicklow Y14 WF96

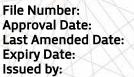
is submitted by the manufacturer to the initial type-testing of the product and its factory production control and that the approved body – National Standards Authority of Ireland – has performed the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control.

This certificate attests that all provisions concerning the attestation of factory production control described in Annex ZA of the standards listed above were applied.

This certificate was first issued on 6 December 2013 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.

Signed:

Kevin D. Mullaney - Director of Certification



1.116.020 6 December 2013 12 October 2023 31 October 2024 NSAI, 1 Swift Square, Northwood Business Park, Santry, Dublin 9



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 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)

Iroadstone

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	0050-CPR-165	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				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1(12mm Fmm)	I.S. EN 772-16
Dimensional Tolerance	D1 (+3mm, -5mm)	*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/m ³	I.S. EN 772-13
		*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m ³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
		I.S. EN 1745 Annex A (Tabulated)
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry)	*Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	Masonry Conditions/Situations in Table 14 (Durability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irish Building Regulations (including Technical Guidance Documents C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 Masonry Conditions/Situations A1 and A2 (Work below or near external ground level) and D (Rendered external walls (other than chinneys, 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 \geq 7.5N/mm ² or a declared normalised 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 normalised compressive strength \geq 13N/mm ² and a declared normalised compressive strength \geq 13N/mm ² and a declared normalised compressive strength \leq 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 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 Irish Building Technical Guidance Documents C & D) Eurocodes I.S. EN 1996-1-1:2005 (Eurocode 6: Design of masonry structures. General rules for reinforced and unreinforced masonry structures (+A1:2012) (including Irish National Annex +A1:2014)) I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materials and execution of masonry (includes Irish National Annex - NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion of moisture), Clause 5.6 (Durability) & Table 14) I.S. EN 13914 - 1 & 2: 2016 Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: A1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2) (2) With Freezing (MX3.1) A2 - High Risk of Saturation Without Freezing (MX2.2) A3 - High Risk of Saturation (MX3.1) C2 - High Risk of Saturation (MX3.2) See masonry mortar strength classes in Table NA.3 of National Annex in I.5. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of exposure ofor completed masonry) of I.S. EN 1996-2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to severe wetting but not exposed to freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chem

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

*Reference to National Provisions / NDP = National Defined Parameter

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, 28/03/2022 (Place and Date of Issue)

(Signature)



Roadstone Ltd Fortunestown Dublin 24				tome	
			ion Body NSAI 050 RL DoP-B1)	
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	0050-CPR-165	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				
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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
1231007	215mm Single pot Cavity H13 Half (Football)	13	215	215	215	38	38	

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

- 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):

roadstome

- Roadstone Ltd. Fortunestown Dublin 24
- 4. N/A
- 5. System of AVCP System 2+
- 6. Harmonised Standard: I.S. EN 771-3 2011 + A1 2015 Aggregate Concrete Masonry Units (Dense and Lightweight)

Notified certification body:

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	0050-CPR-165	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				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
		*Annex C.3 of S.R. 325:2013+A2:2018
Gross Density	>1200kg/m³	I.S. EN 772-13
		*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
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry) (215mm cavity Block Thermal resistance	I.S. EN 1745 Annex A (Tabulated) *Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	 O.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, capping, copings, parapets, sills). 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 edeclared mean compressive strength ≥ 7.5N/mm² ent 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 <i>Freestanding boundary and screen walls with coping or capping min. 40mm overhang Classes</i> MX3.1, MX3.2 Category 1, Group 2: declared mean compressive strength ≥ 13N/mm² ent 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 or the abside of the building or damage to the fabric of the building or the absite of the sound by 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) 	 *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: • D -* Rendered external walls as in A1 • E - Internal walls and inner leaves of cavity walls MX1 as in A1 • I.* Rendered <i>Freestanding boundary and screen walls</i> with coping or capping 40mm overhang, <i>Classes</i> MX3.1, MX3.2 • J2 Freestanding boundary and screen walls with cappings 40mm overhang Classes MX3.1, MX3.2 See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of exposure of completed masonry) of I.S. EN 1996- 2:2006: • MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals • MX2.2 - Exposed to moisture or wetting and freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals • MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to 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

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
215 215	28 58 275 38 128 440	215
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, 10/01/2022 (Place and Date of Issue)

Alar lowe

(Signature)

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
1232005	100mm Solid Fine Texture S13	13	440	100	215
1232002	140mm Solid Fine Texture S7.5	7.5	440	140	215

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

- Intended use -as a facing masonry unit as 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	0050-CPR-165	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				

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	I.S. EN 1996-1-1 + NA *Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	>1900kg/m ³	I.S. EN 772-13
		*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)	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 mormalised compressive strength of ≥ 10.5 N/mm ² • mortar strength class: M4 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: 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 sulfates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to sternal 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 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 sulfates or aggressive chemicals MX3.2 - Exposed to sulfates or aggressive chemicals MX3.2 - Exposed to sulfates or aggressive chem
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.	I.S. EN 772 – 11

	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)
Reaction to Fire	Class A1	Based on Commission Decision 200/605 EC amending 96/603 EC (Refer to I.S. EN 1996-1-2 National Annex Table NA. 3.1/3.2 & 3.3 for fire ratings of wall constructed with Class A1 Units) *Building Regulations Part B—Fire Safety
Shear Bond Strength	0,15N/mm² (Tabulated)	I.S. EN 998-2(Tabulated) *Table NA.5 of NA:2010+A1:2014 to I.S. EN 1996-1-1:2005+A1:2012
Dangerous Substances	None	Cement, Aggregate Water & Admixtures comply with Relevant EN's and National SR's which prohibit the use of Dangerous Substance

*Reference to National Provisions / NDP = National Defined Parameter

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, 28/03/2022 (Place and Date of Issue)

(Signature)



loadstone Ltd ortunestown Dublin 24	•			OME	
			ion Body NSAI 050 RL DoP-B1		
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	0050-CPR-165	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				
configuration: G	rances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry	6-1-1 Vertical	N/mm2, 13N/mm², _{(Refer}	to Docket)	
Configuration: G	roup 1 unit to EN 199	6-1-1 Vertical	Descripti	on	
Configuration: Gi Compressive stra Code 12300	roup 1 unit to EN 199 ength: Mean Air-Dry	6-1-1 Vertical	Descripti 100mm Solid Pain	on t Quality S7.5	
Configuration: Gi Compressive street Code 123002 123200	roup 1 unit to EN 199 ength: Mean Air-Dry 24 07	6-1-1 Vertical	Descripti 100mm Solid Pain 100mm Solid Fine	n t Quality S7.5 Texture S7.5	
Configuration: Gi Compressive stra Code 123002 123200 123200	roup 1 unit to EN 199 ength: Mean Air-Dry 24 07 11	6-1-1 Vertical	Descripti 100mm Solid Pain 100mm Solid Fine 65MM Solid Fine	on t Quality S7.5 Texture S7.5 Texture S7.5	
Configuration: Gi Compressive str Code 123002 123200 123200 123200 123200	roup 1 unit to EN 199 ength: Mean Air-Dry 24 07 11 05	6-1-1 Vertical	Descripti 100mm Solid Pain 100mm Solid Fine 65MM Solid Fine 100mm Solid Fine	on t Quality S7.5 Texture S7.5 Texture S7.5 Texture S13	
Configuration: Gi Compressive str Code 12300 12320 12320 12320 12320	roup 1 unit to EN 199 ength: Mean Air-Dry 24 07 11 05	96-1-1 Vertical y Mortar Capped 7.5	Descripti 100mm Solid Pain 100mm Solid Fine 65MM Solid Fine	on t Quality S7.5 Texture S7.5 Texture S7.5 Texture S13	



No. B3 Category 1 Aggregate Concrete Masonry Unit – Fine Texture Group 2 Cavity

1. Unique identification code of the product type:

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	-

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.

Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	0050-CPR-165	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				

Characteristic	Declared Performance	Technical Specification
Dimensional Telerance	D1(12mm, 2mm)	I.S. EN 772-16
Dimensional Tolerance	D1 (+3mm, -3mm)	*Annex C.3 of S.R. 325:2013+A2:2018
Gross Density		I.S. EN 772-13
	>1200kg/m ³	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m³	I.S. EN 772-13
	As shown in Table 1 above,	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped)
Compressive Strength (Mean)	in vertical orientation	*Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
	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)
	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 5N/mm ² Category 1, Group 2 Not Reference in Table 14 Durability of masonry in finished construction of SR 325 E Internal walls and inner leaves of cavity, MX1	 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. D. 326:2013 (A2:3018 (including Clause E E (Evolution
	Masonry Conditions/Situations: D *Rendered external walls, (other than chimneys, capping, copings, parapets, sills).	 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
	E Internal walls and inner leaves of cavity, MX1	Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: • A1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2)
	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	 (2) With Freezing (MX3.1) A2 - High Risk of Saturation Without Freezing (MX2.2) A3 - High Risk of Saturation with Freezing (MX3.2) C1 - Low Risk of Saturation (MX3.1) As in A3 (but Group 1 or Group 2 units) C2 - High Risk of Saturation (MX3.2) As in A3 (but Group
	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	 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
Durability (freeze/thaw)	Category 1, Group 2: • declared mean compressive strength ≥ 13N/mm ² • net density ≥ 1,500 kg/m ³ • mortar strength class: M6 or M12 Dependant on design/	 J1 - With coping MX3.1, MX3.2 J2 - With capping MX3.1, MX3.2 See masonry mortar strength classes in Table NA.3 of
	Exposure class – as advised by engineers. Generally, for use in Sheltered/Moderate Exposure ,	National Annex in I.S. EN 1996-1-1:2005 Table A.1 (Classification of micro conditions of 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	of completed masonry) of I.S. EN 1996-2:2006: • MX2.1 - Exposed to moisture but not exposed to
	prevent excessive cracking in the render system and masonry external walls, the walls should be designed with adequate movement joints.	freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals • MX2.2 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels
	For exposed Blockwork for use in buildings refer to our Masonry range	of sulfates or aggressive chemicals • MX3.1 - Exposed to moisture or wetting and freeze/thaw cycling but not exposed to external sources of significant
	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)	 levels of sulfates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals
		For Render (including mix, thickness and number of coats), see S.R. 325:2013+A2:2018 (including Clause 5.5.3.2.1 (Applied external surface finishes), Annex E (Specification for mortar for masonry - I.S. EN 998-1 and 2) and Annex F (National guidance to I.S. EN 13914-1:2016)) and I.S. EN 13914-1:2016 (including Clauses 5 (Materials), 6 (Design considerations) and 7 (Work on site, preparation and application of renderings)). Note: Rendering is affected by the combined action of freeze thaw cycles, wind, sun and rain, and their effects will depend upon the degree of exposure. Durability of render will depend on the correct choice of mix, thickness and number of coats and correct detailing

	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	*Annex C.5 of S.R. 325:2013+A2:2018			
	bed	Amex 0.5 0/ 5.11. 525.2015 / A2.2016			
		215			
	≤20 g/(m²*s)				
Water Absorption due to	7.5N Not to be left unrendered in Exposed conditions.	I.S. EN 772 – 11			
Capillary Action	Refer to the clause Above. 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)			
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			
		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			

Signed for and on behalf of the manufacturer by:

Alan Lowe, Senior Technical Manager, Roadstone Ltd. (Name and Function) Belgard, 10/04/2022 (Place and Date of Issue)

Alar lowe

(Signature)

Fortune Dublin 2				R		ISTO PANY	ne			
			Certific	ation Boo RL DoP-)50				
L	ocation	FPC Cert No.	Loc	ation	FPC Cer	rt No.	Locat	ion	FPC Ce	ert No.
	Belgard	0050-CPR-165		tstown	0050-CP		Castle		0050-CF	
	yknockane	0050-CPR-0141		ane	0050-CP	-	Tullar		0050-CF	
	Bunratty	0050-CPR-0141		klow	0050-CP	-	Lagi		0050-CF	
	Classis	0050-CPR-923		gtwohill	0050-CP		Kilma	-	0050-CF	
	Killarney	0050-CPR-922		tlebar	0050-CP	-	Ryar		0050-CF	
	ph Hogan's	0050-CPR-346	-	lway	0050-CP	-	Goo		0050-CF	PR-138
	Mallow	0050-CPR-137								
N 771-3:	2011 + A1:20	115 Category I, Group	1 Aggreg	ate Concrete	Masonry U	nit				
Code		Description		Strength (N/mm ²)	Length (mm)	Width (mm)	Height (mm)	Shell Side (mm)	Shell End (mm)	Web (mm
1233006	215mm Twi	n Pot Cavity Fine-Texture	e H5.0	5.0	440	215	215	38	38	58
1233007 /1233009	215mm Single	215mm Single Pot Cavity Fine-Texture H5.0 Half			215	215	215	38	38	-
1233008	215mm Twi	n Pot Cavity Fine-Texture	e 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 Tw	in Pot Cavity Fine-Textur	e H13	13.0	440	215	215	38	38	58
1233018	215mm Single	e Pot Cavity Fine-Texture	H13Half	13.0	215	215	215	38	38	-
1232010	215mm Tw	in Pot Cavity Fine-Textur	e H18	18.0	440	215	215	38	38	58
1233012	215mm Single	e Pot Cavity Fine-Texture	H13Half	18.0	215	215	215	38	38	-
Dimensio Configura	nal tolerance	Omm), Width (65mm es: Category: D1 unit to EN 1996-1-1 V : Mean Air-Dry Morta	/ertical				efer to Docket)			
Shear boi Flexural k Reaction	nd strength: bond strengtl to fire: Eurocl	ass A1	m²)							
Vater vap	our diffusio	g/m²s (7.5N, not to be lef n coefficient: 5/15µ insulation: Gross d	L					strengths: no	ot to be used a	s a DPM).
		1.01 - 1.19 W/mK (λ1	-	-			-		216 10 10	

No.B1 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

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)

|--|

- 4. N/A
- 5. System of AVCP System 2+

Roadstone Ltd. Fortunestown Dublin 24

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	0050-CPR-165	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				

Dimensional Tolerance		
	D1 (+3mm <i>,</i> -5mm)	I.S. EN 772-16
Dimensional roterance		*Annex C.3 of S.R. 325:2013+A2:2018
Ca Configuration	ategory 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
Scap	Ber Filler Block Cevity Össer	
Gross Density	>1900kg/m ³	I.S. EN 772-13
Not Describe		*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
Thermal Conductivity	$1.01 \cdot 1.10 W/m/(3.10 dr.)$	I.S. EN 1745 Annex A (Tabulated)
$\begin{tabular}{ c c c } \hline masc and i \\ (inclue urrow 325:: 325: 325: 325: 325: 325: 325: 325$	onry Conditions/Situations A3 (Work below or near rnal ground level) and C1 and C2 (Unrendered external s (other than chimneys, cappings, copings, parapets,) – Class MX3.2: gory 1, Group 1: t density ≥ 1,500 kg/m ³ clared mean compressive strength ≥ 13N/mm ² and a	 *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 (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 ofof completed masonry) of I.S. EN 1996- 2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.2 - Exposed to soiture or 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 MX3.2 - 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 exposed to external sources of si

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
		Cement, Aggregate Water & Admixtures comply

*Reference to National Provisions / NDP = National Defined Parameter

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, 28/03/2022 (Place and Date of Issue)

(Signature)



Roadstone Ltd. Fortunestown Dublin 24

Certification Body NSAI 050 RL DoP-B1

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Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	0050-CPR-165	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				
Classis Killarney Joseph Hogan's	0050-CPR-923 0050-CPR-922 0050-CPR-346	Carrigtwohill Castlebar	0050-CPR-423 0050-CPR-157	Kilmacow Ryan's	0050-CPR-0216 0050-CPR-436

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: ≤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 >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.B12 Category 1 Aggregate Concrete Masonry Unit

Standard Solid Foundation block

1. Unique identification code of the product type:

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

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

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

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	0050-CPR-165	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				

Characteristic	Declared Performance	Technical Specification
Dimensional Tolerance	D1 (+3mm, -5mm)	I.S. EN 772-16
		*Annex C.3 of S.R. 325:2013+A2:2018
Configuration	Category 1 to EN 1996-1-1 Group 1	I.S. EN 1996-1-1 + NA
	Test Configuration Vertical	*Annex C.5 of S.R. 325:2013+A2:2018
Gross Density	>1900kg/m³	I.S. EN 772-13
Net Develue	· 1000/ /3	*Building Regulation—Part E (Sound)NDP
Net Density	>1900kg/m ³	I.S. EN 772-13
Compressive Strength (Mean)	As shown in Table 1 above, in vertical orientation	I.S. EN 772-1 (7.3.2 Air Dry, Mortar Capped) *Annex C.4 and C.5 of S.R.325:2013+A2:2018 Building Regulations - Part A (Structure) NDP
		I.S. EN 1745 Annex A (Tabulated)
Thermal Conductivity	1.01 - 1.19 W/mK (λ10, dry)	*Building Reg.—Part L (Cons. of Fuel and Energy)
Durability (freeze/thaw)	Masonry Conditions/Situations in Table 14 (Durability of masonry in finished construction) of S.R. 325:2013+A2:2018 and used in accordance with Irish Building Regulations (including Technical Guidance Documents C & D), Eurocodes, I.S. EN 13914 - 1 & 2: 2016 and S.R. 325:2013+A2:2018 Masonry Conditions/Situations A3 (Work below or near external ground level) and C1 and C2 (Unrendered external walls (other than chimneys, cappings, copings, parapets, sills)) – Class MX3.2: Category 1, Group 1: • net density ≥ 1,500 kg/m ³ • declared mean compressive strength ≥ 13N/mm ² and a declared normalised compressive strength of ≥ 18 N/mm ² • mortar strength class: M6 or M12 to Engineers spec. When used in rising walls/footings use Annex E SR21 Type T.2 Permeable/free draining backfill, footpath and rendered plinth All masonry units produced with aggregate in accordance with I.S. EN 12620 (Aggregates for concrete) and S.R. 16:2016 (Guidance on the use of I.S. EN 12620, Aggregates for concrete)	 Irish Building Regulations (Including Technical Guidance Documents C & D) Eurocodes I.S. EN 1996-1-1:2005 (Eurocode 6: Design of masonry structures. General rules for reinforced and unreinforced masonry structures (+A1:2012) (including Irish National Annex +A1:2014)) I.S. EN 1996-2:2006 (Eurocode 6: Design of masonry structures. Design considerations, selection of materials and execution of masonry (includes Irish National Annex - NA:2010)) S.R. 325:2013+A2:2018 (including Clause 5.5 (Exclusion of moisture), Clause 5.6 (Durability) & Table 14) I.S. EN 13914 - 1 & 2: 2016 Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: A.1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2) (2) With Freezing (MX3.1) A.2 - High Risk of Saturation Without Freezing (MX3.2) A.3 - High Risk of Saturation Without Freezing (MX3.2) C.1 - Low Risk of Saturation (MX3.1) C.2 - High Risk of Saturation (MX3.2) See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1:1:2005 Table A.1 (Classification of micro conditions of exposure ofor completed masonry) of I.S. EN 1996-2:2006: MX2.1 - Exposed to moisture but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.1 - Exposed to severe wetting but not exposed to freeze/thaw cycling or external sources of significant levels of sulfates or aggressive chemicals MX3.2 - Exposed to severe wetting and freeze/thaw cycling but not exposed to external sources of significant levels of sulfates or aggressive chemicals MX3.2 - 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 exposed to external sources of significant levels of sulfates or aggressive chemi

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

*Reference to National Provisions / NDP = National Defined Parameter

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, 28/03/2022 (Place and Date of Issue)

(Signature)



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Du5iiii 24			ion Body NSAI 050		
		ł	RL DoP-B1		
Location	FPC Cert No.	Location	FPC Cert No.	Location	FPC Cert No.
Belgard	0050-CPR-165	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				
Dimensions: Leng Dimensional tole Configuration: G	gth (440mm or 350), F rances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry	01 06-1-1 Vertical	eight (300mm) N/mm² (Normalized stre	ngth 18N/mm² (equiv.	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: G	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry	01 06-1-1 Vertical	N/mm² (Normalized stree Descript 100mm Solid Standard	ion d S13 (300 x 450)	100mm cube strengt
Dimensional tole Configuration: G Compressive str	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry	01 06-1-1 Vertical	N/mm ² (Normalized stree	ion d S13 (300 x 450)	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: G Compressive str Code 12300 12300	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry 50 03 Dility: Moisture Mov	01 06-1-1 Vertical y Mortar Capped 13 ement: 0.6 mm/m	N/mm² (Normalized stree Descript 100mm Solid Standard	ion d S13 (300 x 450)	100mm cube strengt
Dimensions: Leng Dimensional tole Configuration: G Compressive str Code 12300 12300 12300 Dimensional stal Shear bond strer	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry 50 03 Dility: Moisture Mov ngth: Fixed value 0.1	01 06-1-1 Vertical y Mortar Capped 13 ement: 0.6 mm/m	N/mm² (Normalized stree Descript 100mm Solid Standard	ion d S13 (300 x 450)	100mm cube strengt
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Dimensions: Leng Dimensional tole Configuration: G Compressive str Code 12300 12300 12300 Dimensional stal Shear bond strer Flexural bond strer Flexural bond strer Flexural bond strer Shear to fire: Water absorption Water vapour dif Direct airborne s Thermal conduct Durability agains Walls (other than chimme Masonry Conditions/Sii Building Regulations (ii	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry 50 03 03 03 03 03 03 03 03 03 03 03 03 03	01 06-1-1 Vertical y Mortar Capped 13 ement: 0.6 mm/m 5(N/mm ²) to be left unrendered in E 5/15μ Gross dry density >19 /mK (λ10, dry, unit, S pony Conditions/Situation apets, sills)) – Class MX3.: ability of masonry in finia ince Documents C & D)	N/mm ² (Normalized stree Descript 100mm Solid Standard 100mm Solid Standard 100mm Solid Standard solid Standard 500 kg/m ³	ion d S13 (300 x 450) d S13 (300 X 350) Durability Below. All strength rnal ground level) and C1 and 5:2013+A2:2018 and used	ns: not to be used as a DPM). I C2 (Unrendered external in accordance with Irish
Dimensions: Leng Dimensional tole Configuration: G Compressive str Code 12300 12300 12300 Dimensional stal Shear bond strer Flexural bond strer Flexural bond strer Flexural bond strer Shear to fire: Water absorption Water vapour dif Direct airborne s Thermal conduct Durability agains Walls (other than chimme Masonry Conditions/Sii Building Regulations (ii	erances: Category: D roup 1 unit to EN 199 ength: Mean Air-Dry 50 03 bility: Moisture Mov ngth: Fixed value 0.1 rength: NPD Euroclass A1 $n: \leq 20g/m^{2}s$ (7.5N, not f fusion coefficient: ound insulation: G tivity: 1.01 - 1.19 W/ it freeze-thaw: Masc rys, cappings, copings, para reluding Technical Guida ble 8 Declared Per	01 06-1-1 Vertical y Mortar Capped 13 ement: 0.6 mm/m 5(N/mm ²) to be left unrendered in E 5/15μ Gross dry density >19 /mK (λ10, dry, unit, S pony Conditions/Situation apets, sills)) – Class MX3.: ability of masonry in finia ince Documents C & D)	N/mm ² (Normalized street Description 100mm Solid Standard 100mm Solid Standard 100mm Solid Standard	ion d S13 (300 x 450) d S13 (300 X 350) Durability Below. All strength rnal ground level) and C1 and 5:2013+A2:2018 and used	ns: not to be used as a DPM). I C2 (Unrendered external in accordance with Irish

Roadstone Ltd. Fortunestown Tallaght Dublin 24 Tel: (+353 1) 404 1200 Fax: (+353 1) 404 1321 Email: info@roadstone.ie Web: www.roadstone.ie



Material Safety Data Sheet - Dense Aggregate Concrete Blocks

1. (a) Identification of Product

Concrete Blocks for use in walling.

(b) <u>Name of</u> <u>Company</u> Roadstone Dublin Ltd. Fortunestown, Dublin 24.

Phone (01) 4041200

(c) Application

Use of Concrete Blocks should be in accordance with the relevant National / European Union codes of practice.

2. <u>Composition of Ingredients</u>

Concrete blocks are a mixture of natural aggregates, cement and water. Admixtures may be added to modify the properties of the finished product.

- 3. Hazard Identification
- 3.1 Concrete blocks are abrasive and typically weigh 20 to 30kg each, depending on shape and density and should be handled accordingly.
- 3.2 Bales of concrete blocks may contain up to be blocks and can weigh up to 2.0 tonnes, depending on size, quantity and bale configuration.
- 3.3 Strapping is only designed to facilitate handling during manufacture and should not be relied upon to provide stability of bales during transport, site

handling or storage. Strapping is sharp and tensioned and can cause injury when removing or otherwise handling it.

3.4 Cutting, drilling or hammering of concrete blocks can create dust. If inhaled in excessive quantities over extended periods, respirable dust can constitute a long-term hazard. Cutting, drilling or hammering of concrete blocks, unless adequately controlled, can project particles at high velocity with consequent risk of impact damage and/or injury particularly to exposed areas of the body and eyes.



4. First Aid Measures

First Aid treatment is as follows:

4.1 Eye Contact

Immediately rinse under running water and seek medical advice.

4.2 <u>Cuts/Abrasions</u>

Cuts/abrasions from concrete blocks should be cleaned and treated using the normal First-Aid method. Wounds must receive prompt medical attention.

In all cases of doubt or where symptoms persist medical advice must be obtained.

DISCLAIMER

This Material Safety Data Sheet has been prepared by the Irish Concrete Federation in consultation with its members and with technical assistance from the Industry's Safety Committee.

Every care has been taken to ensure that the information contained herein is correct and accurate at the date of publication. However, the Irish Concrete Federation Ltd cannot accept any responsibility or liability for any errors, inaccuracies or omissions which may have occurred inadvertently.

5. Fire Fighting Measures

Not applicable.

6. Accidental Release Measures

- 6.1 Avoid contact with skin.
- 6.2 Tidy up debris from broken blocks.

7. Handling & Storage

- 7.1 Protect skin when handling concrete blocks.
- 7.2 Use suitable handling & transport equipment when handling bales of blocks.
- 7.3 Before lifting always size up the load. Always follow safe lifting and manual handling procedures.
- 7.4 Ensure adequate load-bearing capacity of ground, floors or platforms when placing or storing bales of blocks on site.
- 7.5 Bales of blocks can become unstable over time and should not be stacked to excessive heights.
- 8. <u>Exposure Controls/Personal</u> <u>Protection</u>
- 8.1 Hand Protection

Wear suitable protective gloves.

8.2 Skin Protection

Avoid block and strap contact with skin as this can cause cuts and abrasions.

8.3 Eye Protection

Wear goggles to prevent eye contact from flying particles when cutting, drilling or hammering concrete blocks, or from breaking straps. Wear appropriate respiratory protection when cutting, drilling or hammering concrete blocks.

8.5 Footwear

Wear footwear with protective toecaps when working with concrete blocks.

8.6 Head Protection

Head protection to be worn with risk of falling blocks e.g. between stacks, elevated platforms, edges, etc.

9. Physical & Chemical Properties

Concrete blocks are usually grey in colour. The product is abrasive.

10. Stability & Reactivity

Ensure integrity and stability of bales whilst stored on site.

11. <u>Toxicological Information</u>

Not applicable.

12. Ecological Information

Concrete blocks have no ecological effects.

13. Disposal Considerations

Concrete blocks may be recycled or placed in approved licensed landfill site.

14. Transport Information

Ensure security and safety of load at all times.

15. <u>Regulatory Information</u>

Not applicable.

16. Other Information

None.

8.4 Masks

DISCLAIMER

This Material Safety Data Sheet has been prepared by the Irish Concrete Federation in consultation with its members and with technical assistance from the Industry's Safety Committee. Every care has been taken to ensure that the information contained herein is correct and accurate at the date of publication. However, the Irish Concrete Federation Ltd cannot accept any responsibility or liability for any errors, inaccuracies or omissions which may have occurred inadvertently. Issued May 2011