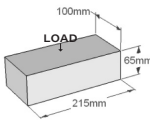


DECLARATION OF PERFORMANCE (DOP)



CATEGORY | AGGREGATE CONCRETE MASONRY UNITS NO. 002-13

1. Unique identification of Product type:

| Description | Characteristic Strength N/mm ² | Dimensions (Length - Width - Height)mm | | |
|-----------------------|---|---|-------|--------|
| | 13N/mm ² (Capped) | Length | Width | Height |
| Concrete Brick |  | 215 | 100 | 65 |

2. Type batch or serial number or any other element allowing identification of the construction product as required under Article 11 (4) of the CPR:

The production details are traceable by the delivery note

3. Intended use/s:

IS EN 771-3 2011 & BS EN 771-3 2011 - Aggregate Concrete Masonry Units intended for use in load bearing or non-load bearing buildings and civil engineering end uses

4. Manufacturer:

W & J Chambers Ltd, 91 Glenshane Road, Drumahoe, Co Londonderry BT47 3SG

5. Authorised representative:

Mr. Gordon Chambers Director of W&J Chambers LTD

6. System of AVCP:

System 2+

7. Harmonised standard:

EN 771-3 Specification for Masonry units Part 3: Aggregate Concrete Masonry Units (Dense & Lightweight aggregates)

8. Notification certification body:

National standards Authority of Ireland (NSAI)
0050 - CPR - 1056

9. Declared performance:

(Featured on next page)



9. Declared performance:

| Essential characteristics | Declared Performance | Harmonised - technical specification |
|--|--|--|
| Dimensional Tolerance | D1 | IS EN 772-16 |
| Configuration | Group 1 | IS EN 1996-1-1 |
| Gross Density (Direct Airborne Sound Insulation) | ≥1900 kg | IS EN 772-13 |
| Compressive Strength (Characteristic) | 13 N/mm ² (Capped) | IS EN 772-1 |
| Dimensional Stability - Moisture Movement | <0.6mm/m | IS 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) |
| Reaction To Fire | Euroclass 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 |
| 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 NI & Irish EU 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, capping's, 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 ≥ declared normalised compressive strength of ≥ 13 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 (Rendered and protected by free draining SR 21 materials and footpaths. (Other than chimneys, capping's, copings, parapets, sills) - Class MX3.2: Category 1, Group 1: - net density ≥ 1,500 kg/m ³ - declared mean compressive strength ≥ 13N - mortar strength class: M12 | <ul style="list-style-type: none"> - EU 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 EU 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 <p>Table 14 of S.R. 325:2013+A2:2018: Masonry Conditions/Situations: - A1 - Low Risk of Saturation (1) Without Freezing (MX2.1, MX2.2) (2) With Freezing (MX3.1) - A2 - High Risk of Saturation Without Freezing (MX2.2) - A3 - High Risk of Saturation with Freezing (MX3.2) - C1 - Low Risk of Saturation (MX3.1) - C2 - High Risk of Saturation (MX3.2)</p> <p>See masonry mortar strength classes in Table NA.3 of National Annex in I.S. EN 1996-1-1:2005.</p> <p>Table A.1 (Classification of micro conditions of exposure of completed masonry) of I.S. EN 1996-2:2006.</p> <p>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) - 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.</p> <p>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.</p> |
| Thermal Conductivity | 1.10 W/mK(λ10, dry) | IS EN 1745 Annex A (Tabulated Value) |
| Water Absorption | <10g/m ² s | IS EN 772-11 |
| Shear Bond Strength | 0,15N/mm ² | IS EN 998-2 (Tabulated Value) |
| Water Vapour Permeability | 5/15u | IS EN 1745 Annex A (Tabulated Value) |
| *Dangerous Substances | NONE | Cement, Aggregate & Water comply with Relevant EN's and National SR's which prohibit the use of Dangerous substances |

Signed for and on behalf of W&J Chambers Ltd by:

Place & date of issue:

22/2/24

