Roadstone is the single largest producer of concrete blocks in Ireland. Manufactured in two ranges with a choice of standard or fine textured finish, they comply with the Irish Standard Specification I.S. EN 771-3 and NSAI quality management system IS EN ISO 9001.

The minimum strength for the use of solid masonry units (Dense and Lightweight) in Ireland is 7.5N/mm² in line with the Current building regulations Technical Guidance Documents part A – Please refer to Clause 1.1.3.5

Concrete block strength descriptions have been updated in line with IS EN 771-3. The relevant testing method is now mortar capped and dry tested. Block strength descriptions are now displayed as follows:

**Solid Core**
- 7.5N
- 13N
- 18N
- 24N

**Hollow Core**
- 4.5N
- 13N
- 18N
- 24N

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**STANDARDS REQUIRED TO BUILD A CONCRETE MASONRY WALL IN IRELAND**

Produced to: IS EN 771-3 – 2011 Aggregate Concrete Masonry Units (Dense and Lightweight)

Level of conformity: CE Level 2+ Externally certified by a notified body (ie. NSAI)

Intended use: As common, facing or exposed masonry in load bearing or non-load bearing building and civil engineering applications when designed and built in accordance with the current Irish Building Regulations:

- TGD Part A Structure
- TGD Part B Fire Safety: class A1
- TGD Part C Sound: Density >1900kgs

TGD Part I: Energy: Roadstone Thermal Lightblock reduce the thermal bridging at key junctions & air leakage

Redesigned to: Eurocode 6

- IS EN 1996-1-1 General rules for reinforced and unreinforced masonry structures + National Annex
- IS EN 1996-2-2 Design considerations, selection of materials and execution of masonry + National Annex

Exposure/Durability tables and recommended Details:

SIR 2014 Recommendations for the design of Masonry structures in Ireland to Eurocode 6.

Mortars and Plasters:

- IS EN 998-1 Specification for mortar for masonry – Part 1: Rendering and plastering Mortar
- IS EN 998-1 Specification for mortar for masonry – Part 2: Masonry Mortar

Rendering and Plastering:

- IS EN 13914: 2005 Pt. 1- Design preparation and application of external rendering and internal plastering – External Rendering
- IS EN 13914: 2005 Pt. 2- Design preparation and application of external rendering and internal plastering – Internal Plastering

Materials:

- Cement: IS EN 197-1 : 2011
- Aggregates: IS EN 12620 & SR 16 Guidance on the use of IS EN 12620 Aggregates for Concrete
- Sands: IS EN13139 & SR 18 Guidance on the use of IS EN 13139 Aggregates for Mortar
- Admixtures: IS EN 934-2
- Water: IS EN 206-3:2007 Mixing water for concrete

Ancillary components:

- IS EN 845-1 Specification for ancillary components for masonry – Part 1: Ties, tension straps hangers and brackets
- IS EN 845-2 Specification for ancillary components for masonry – Part 2: Lintel
- IS EN 845-3 Specification for ancillary components for masonry – Part 3: Bed Joint

Reinforcement of steel meshwork

For Modular 400 Range and Specials in 450 Range please refer to the Forticrete Masonry Range

**450 RANGE**

- Filler Block
  - 215 x 65 x 100mm
  - 3kg. (18N/mm²)
- Solid
  - 440 x 215 x 100mm
  - 26kg. (7.5N/mm²)
- Solid 25% Nod
  - 440 x 215 x 100mm
  - 14kg. (7.5N/mm²)
- Solid
  - 440 x 180 x 100mm
  - 26kg. (7.5N/mm²)
- Solid
  - 440 x 215 x 140mm
  - 27kg. (7.5N/mm²)
- Solid
  - 440 x 215 x 100mm
  - 15kg. (7.5N/mm²)
- Solid
  - 440 x 215 x 65mm
  - 13kg. (7.5N/mm²)
- Cavity Closer
  - 440 x 215 x 215mm
  - 13kg. (7.5N/mm²)
- Double Half Hollow:
  - 215 x 215 x 215mm
  - 12kg. (4.5N/mm²)

Co-extruding face size: 450mm x 225mm

- 9 Blocks per sq. metre.

Co-ordinating face size 450mm x 225mm

- 9.88 blocks per sq. metre.

Also manufactured in Fine Texture

High strength available

Variations in colour and weight may occur depending on source location.