



## BLOCKS STANDARD RANGE

RS.BRO-25 Rev 00 Jul '22

A CRH COMPANY

roadstone

thermal

# STANDARDS REQUIRED TO BUILD A CONCRETE MASONRY WALL IN IRELAND

**Produced to:** I.S. EN 771-3 – 2011 Aggregate Concrete Masonry Units (Dense and Lightweight)

**Level of conformity:** CE Level 2+ Externally certified by a notified body (i.e. 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 E Sound: Density >1900kgs

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

## **Designed to: Eurocode 6**

I.S. EN 1996-1-1 General rules for reinforced and unreinforced masonry structures + National Annex

I.S. EN 1996-1-2 General rules. Structural fire design + National Annex

I.S. EN 1996-2:2006 Design considerations, selection of materials and execution of masonry + National Annex

## **Exposure/Durability tables and recommended Details:**

S.R. 325: 2014 Recommendations for the design of Masonry structures in Ireland to Eurocode 6.

## **Mortars and Plasterers:**

I.S. EN 998-1 Specification for mortar for masonry – Part1: Rendering and plastering Mortar

I.S. EN 998-1 Specification for mortar for masonry – Part2: Masonry Mortar

## **Rendering and Plastering:**

I.S. EN 13914: 2005 Pt. 1- Design preparation and application of external rendering and internal plastering – External Rendering

I.S. EN 13914: 2005 Pt. 2- Design preparation and application of external rendering and internal plastering – Internal Plastering

## **Materials:**

Cement: I.S. EN 197-1 : 2011

Aggregates: I.S. EN 12620 & SR 16 Guidance on the use of I.S. EN 12620 Aggregates for Concrete

Sands: I.S. EN13139 & SR 18 Guidance on the use of I.S. EN 13139 Aggregates for Mortar

Admixtures: I.S. EN 934-2

Water: I.S. EN 2008 Mixing water for concrete

## **Ancillary components:**

I.S. EN 845-1 Specification for ancillary components for masonry –Part 1: Ties, tension straps hangers and brackets

I.S. EN 845-2 Specification for ancillary components for masonry –Part 2: Lintels

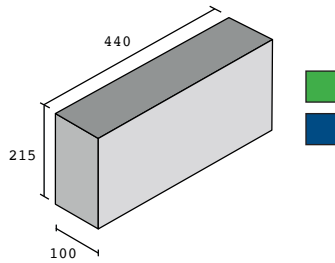
I.S. EN 845-3 Specification for ancillary components for masonry –Part 3: Bed Joint

Reinforcement of steel meshwork

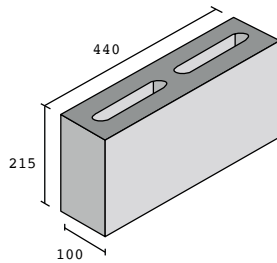


# 450 RANGE

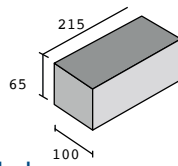
Co-ordinating face size 450mm x 225mm  
 - 9.88 blocks per sq. metre.



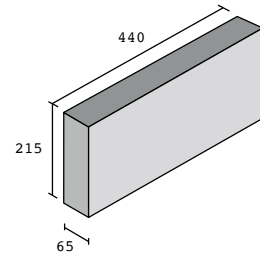
**Solid**  
 440 x 215 x 100mm  
 20kg. (7.5N/mm<sup>2</sup>)



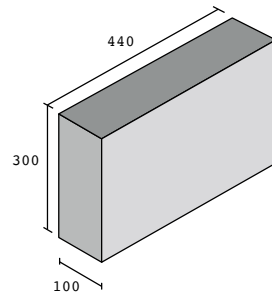
**Solid - 25% Void**  
 440 x 215 x 100mm  
 14kg. (7.5N/mm<sup>2</sup>)



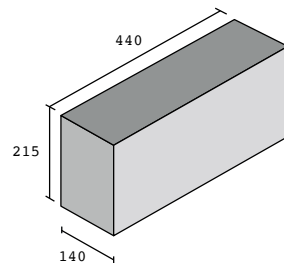
**Filler Block**  
 215 x 65 x 100mm  
 3kg. (18N/mm<sup>2</sup>)



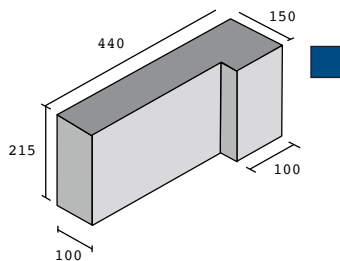
**Solid**  
 440 x 215 x 65mm  
 13kg. (7.5N/mm<sup>2</sup>)



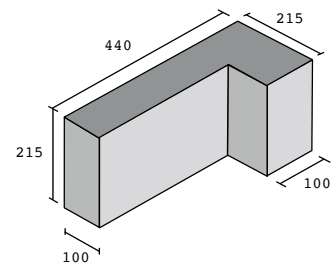
**Solid**  
 440 x 300 x 100mm  
 28kg. (7.5N/mm<sup>2</sup>)



**Solid**  
 440 x 215 x 140mm  
 27kg. (7.5N/mm<sup>2</sup>)



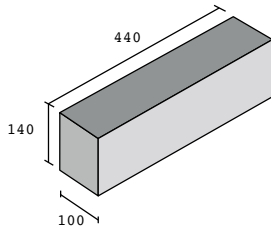
**Cavity Closer**  
 440 x 215 x 100/150mm  
 23kg. (7.5N/mm<sup>2</sup>)



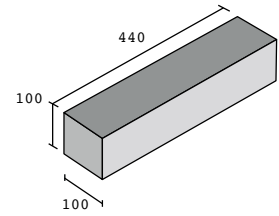
**Cavity Closer**  
 440 x 215 x 100/215mm  
 25kg. (7.5N/mm<sup>2</sup>)

- Also manufactured in Fine Texture
- High strength available

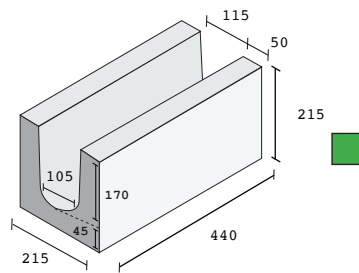
For Modular 400 Range and Specials in 450 Range please refer to the Forticrete Masonry Range



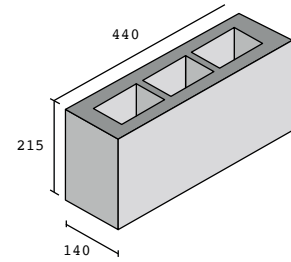
**Soap Bar**  
440 x 140 x 100mm  
13kg. (7.5N/mm<sup>2</sup>)



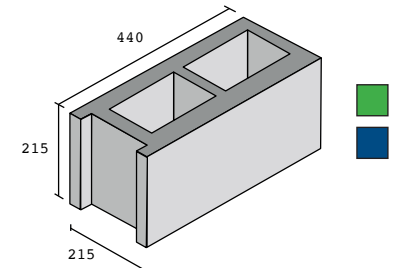
**Soap Bar**  
440 x 100 x 100mm  
9kg. (7.5N/mm<sup>2</sup>)



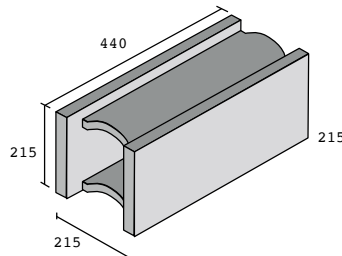
**U Block**  
440 x 215 x 215mm  
22kg. (5N/mm<sup>2</sup>)



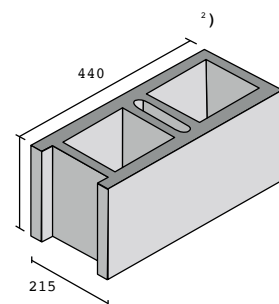
**Hollow**  
440 x 215 x 140mm  
18kg. (4.5N/mm<sup>2</sup>)



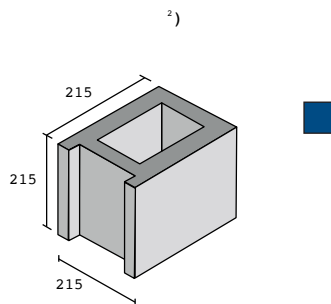
**Twin Pot Cavity**  
440 x 215 x 215mm  
25kg. (4.5N/mm<sup>2</sup>)



**Hollow - Group 4**  
440 x 215 x 215mm  
27kg. (3N/mm<sup>2</sup>)



**Double Half Hollow**  
2/215 x 215 x 215mm  
Each 13kg. (4.5N/mm<sup>2</sup>)



**Half Hollow**  
215 x 215 x 215mm  
12.6kg. (4.5N/mm<sup>2</sup>)

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

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/mm<sup>2</sup> 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:

**Solids:**

7.5N

13N

18N

24N

36N

**Hollows:**

4.5N

13N

18N

24N



ENVIRONMENT  
I.S. EN ISO 14001  
NSAI Certified



ENERGY  
ISO 50001  
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QUALITY  
I.S. EN ISO 9001  
NSAI Certified





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