



HBP SLOT BLOCK DATASHEET

A range of paint grade medium density concrete blocks with a unique slotted design for superior performance – the HBP Slot Block.

The patented vertical slots lead to many advantages over traditional solid or hollow format concrete blocks. The HBP Slot Block is available in 100, 140, 190 and 215mm widths.

Key Benefits

- Unique, purpose designed slots improve the chemical and mechanical bond with mortar, aiding flexural and shear strength
- Design and increased bond reduces propensity to shrinkage, enabling longer spans between movement joints
- Approximately 12.5% lighter than equivalent density solid blocks – reduces average lifting by 300kg a day per man
- Compliant with CDM manual handling guidelines
- Integral component of the Wi System

Applications

The HBP Slot Block is intended for the construction of load-bearing and non-loadbearing walls and is suitable for all forms of masonry construction.

Appearance and Configuration

The blocks are manufactured from specially selected and prepared lightweight aggregates, giving a grey, close-textured finish. They feature a recess to one end and slots of defined size and purpose.

Authority

The HBP Slot Block range conforms to BS EN 771-3 and is manufactured under a Quality Management System complying with ISO 9001. The blocks meet Category 1, Manufacturing Control, as specified in BS EN 1996-1-1: 2005.



Sizes and Tolerances

Face dimensions are 440mm x 215mm; widths are: 100mm, 140mm, 190mm and 215mm. The blocks comply with Tolerance Category D1 of EN 771-3.

Technical Properties

Properties	100	140	190	215	
Mean compressive strength	7.3, 10.4 N/mm ²				
Net dry density of concrete	1450 kg/m³				
Unit weight (kg)	12.7	17.8	21.8	23.6	
Laid weight (kg/m²)	138	193	238	258	
Thermal conductivity @ 3% moisture content (W/mk)	0.46				
Reaction to fire	Classification to EN 13501-1:A1				
Note: unit and laid weights are approximate an					

calculated based on the specified dry density and moisture content.

Technical Performance

Typical fire resistance for the HBP Slot Blocks are based on the National Annexe to BS EN 1996: (Parts 1 & 2)

	Single leaf no applied finish			
Block Size	Loadbearing wall	Non- loadbearing wall		
100	2 hrs	4 hrs		
140	3 hrs	4 hrs		
190	6 hrs	6 hrs		
215	6 hrs	6 hrs		

Note: the application of plaster will extend the period of fire resistance.

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Estimated Sound Reduction

The sound reduction of the HBP Slot Block has been assessed and indicated in the table below:

Block Size	No finish other than paint	Drylined Both sides	Plastered Both sides		
	Decibels (dB)				
100	43	44	44		
140	48	48	49		
190	51	52	52		
215	52	53	53		

Design

The design of loadbearing and nonloadbearing walls should be in accordance with the recommendations of BS 8103: Part 2, BS EN 1996:1-1: 2005 and the relevant requirements of the Building Regulations.

Installation

The construction of walls should be in accordance with BS EN 1996: (1-1: 2005, 1-2: 2005) and 2: 2006) and normal good practice. For use above DPC, the blocks should be laid using mortar strength class M4. Below DPC level strength class M4, or M6, can be used depending on the risk of freezing/saturation.



Recycled Content

Haughley Block Plant seek to increase the recycled content of our products, without comprising quality, when feasible.



Sustainability and Envirionment

Haughley Block Plant Bury St Edmunds is the first zero-carbon block factory in the UK; all electricity to the block machine, batching plant, cuber, kilns etc is solar or wind, all ancillary machinery is electric lithium powered battery. This factory gives us licence to manufacture/deliver the most environmentally friendly blocks of every kind/type, density/weight (factory visits on request).

An independent carbon footprint assessment by the University of Greenwich in July 2015 determined that when the Slot Block is used within the Wi System, carbon savings of 23.6% are achieved, compared to traditional blockwork and steel windpost techniques.

Haughley Block Plant Ltd is ISO 9001, ISO 14001, ISO 45001 and UKCA certified.

Contact:

HAUGHLEY BLOCK PLANT LTD STATION ROAD, HAUGHLEY SUFFOLK, IP14 3QP

0203 150 0613

office@haughleyblockplant.co.uk