



MEDIUM DENSITY BLOCKS

WDL Medium Density Blocks are manufactured to BS EN771-3. Composition of these blocks consists from a mixture of furnace bottom ash, approved lightweight aggregates, ordinary Portland cement and water.

They are a functional block and are manufactured in two finishes, standard and paint grade. The standard finish offers an excellent plastering key for rendering or can dry lined with plasterboards. Our paint grade finish is ideal for walls to receive a range of proprietary paints, the appearance is then of an aesthetic one.



Above:
Medium Density block



Left: Medium Density
block close-up



Right: Medium Density
Paintgrade block close-up

The performance makes our blocks eminently suitable above and below dpc. 7Nmm² and greater should be specified if these blocks are to be used on the external leaf of a cavity wall below dpc level and left unprotected. In addition Medium density blocks are suitable as infill blocks for floor beams, rendering, cladding, party walls (cavity type) and internal partitions. Because of its qualities, high levels of insulation can be achieved when used with a secondary insulation. They also provide excellent properties for sound and fire resistance when used in accordance with the building regulations. Consideration should also be given to these blocks when block units are needed to be below 20KG.



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Specification & Technical Information

Data Sheet 2
Medium Dense Aggregate Blocks
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Medium Dense Aggregate Blocks

Face Dimensions: 440mm x 215mm

Thickness (mm)	Type	Finish	Quantity per Pack (m ²)	Average Dry Density @3% Moisture Content (Kg/m ³)	Thermal Conductivity @3% Moisture Content (W/mk)	Approx Weight (kg)	Compressive Strength (N/mm ²)	Approx Drying Shrinkage 1%	Thermal Resistance Values (m ² K/W)	Notional Fire Resistance (Hours)	Sound Reduction Value (dB)
100	Solid	Standard	9.0	1360 (3.6N/mm ²) 1450 (7.3N/mm ²) 1520 (10.4N/mm ²)	0.45 (3.6N/mm ²) 0.47 (7.3N/mm ²) 0.49 (10.3N/mm ²)	14	3.6 7.3 10.4*	0.035	0.222 (3.6N/mm ²) 0.213 (7.3N/mm ²) 0.204 (10.4N/mm ²)	2	42
100	Solid	Paint Grade	9.0	1400 (3.6N/mm ²) 1400 (7.3N/mm ²) 1500 (10.4N/mm ²)	0.45 (3.6N/mm ²) 0.47 (7.3N/mm ²) 0.49 (10.3N/mm ²)	14	3.6 7.3 10.4*	0.035	0.217 (3.6N/mm ²) 0.217 (7.3N/mm ²) 0.208 (10.4N/mm ²)	2	42
140	Solid	Standard	6.0	1360 (3.6N/mm ²) 1450 (7.3N/mm ²) 1520 (10.4N/mm ²)	0.46 (3.6N/mm ²) 0.46 (7.3N/mm ²) 0.51 (10.3N/mm ²)	20	3.6 7.3 10.4*	0.035	0.311 (3.6N/mm ²) 0.299 (7.3N/mm ²) 0.286 (10.4N/mm ²)	2	44
140	Solid	Paint Grade	6.0	1400 (3.6N/mm ²) 1400 (7.3N/mm ²) 1500 (10.4N/mm ²)	0.46 (3.6N/mm ²) 0.46 (7.3N/mm ²) 0.51 (10.3N/mm ²)	20	3.6 7.3 10.4*	0.035	0.304 (3.6N/mm ²) 0.304 (7.3N/mm ²) 0.291 (10.4N/mm ²)	3	44

*Available on special request

Figures given are for single leaf construction excluding wall finishes

Suitable Applications

- External Walls with Render or Cladding
- External Walls Below Ground Level / DPC (7.3N/mm²)
- Block & Beam Flooring
- Eminently Suitable for General Load Bearing Conditions
- Internal Partitions
- Inner Leaf of Cavity Walls when used in Conjunction with Secondary Insulation

Medium Dense Aggregate Briquettes

Can be used in areas of block work where coursing details or closure is necessary. Thus reducing cutting time and wastage of full size blocks.

Size (mm)	Form	No. Per Pack	Approx Weight (kg)
100*215*65	No Frogs or Holes	416	2.8

Load Sizes

Face Dimensions: 440mm x 215mm

Thickness (mm)	Arctic (m ²)	8 Wheeler	6 Wheeler
100 Solid	180	126	90
140 Solid	120	84	60



Blocks manufactured to BS EN 771 - 3 : 2003