MASTERLITE® PRO



Masterlite® Pro is a range of high strength, robust, load-bearing aggregate blocks for use in internal or external walls, both below and above the damp proof course (DPC).

Available in a range of sizes and strengths, these units are lighter and provide better thermal efficiency than standard dense blocks.

FEATURES & BENEFITS

- The lighter weight reduces transport costs and improves on-site handling.
- The standard finish provides an excellent key for plastering and rendering, so no pre-treatment is required.
- Made from robust material that can easily be plugged and drilled.
- A standard face Coursing Brick is available to ensure consistency and flexibility.
- Paintgrade options provide a great surface for direct decoration (one face and one end guaranteed) to save time and money.
- Mixed loads are available to fulfill all blocks, trenchblocks, and bricks required in one easy to manage order and delivery.
- Can be used in specific Robust Details® wall types to provide reliable acoustic and structural performance without pre-completion sound testing.

APPLICATIONS

- Suitable for use below DPC, both internally and externally (7.3 N/mm² and higher), with a specific foundation block option for a 300mm overall wall construction.
- Use above DPC for cavity and internal walls.
- 7.3 N/mm² and higher can be used in block and beam floors.
- Standard blocks are great for locations where the surface will not be seen i.e. a plastered or rendered finish is applied.
- Suitable for use in Robust Details wall types E-WM-2, 4, 8, 11 & 14.

COMPLEMENTARY PRODUCTS

- Masterlite Pro Coursing Bricks
- Holcim Mortar
- Holcim Cement
- Holcim Concrete

Environmental Product Declarations are available. Speak to your sales representative or call our technical department for details.

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TECHNICAL DATA

Block Type		Solid	Solid	Solid
Face Size (mm)		440x215	440x215	275x140
Thickness (mm)		100	140	300
Dimensional Tolerances		D1	D1	D1
Mean Unit Strength (N/mm²)		3.6 - 10.4	7.3 - 10.4	7.3
Net Dry Density (kg/m³)		1450	1450	1450
Thermal Conductivity (W/mK) Based on tabulated values from BS EN 1745	Internal External	0.57 0.61	0.57 0.61	- 0.61
Thermal Resistance (m²K/W)	3% Moisture 5% Moisture	0.175 0.164	0.246 0.230	- 0.492
Sound Insulation (Rw dB) Based upon mass law calculation, assuming plaster both sides		42	44	-
Fire Resistance (hrs) Based on data from NA to EC6 Part 1-2, single leaf walls with no finishes. Assumed <1.0 of the permitted load capacity is being used	Load-bearing Non load-bearing	2 4	3 >4	- -
Reaction to Fire Classification to EN 13501-1		Class A1	Class A1	Class A1
Moisture Movement (mm/m)		<0.6	<0.6	<0.6
Water Vapour Diffusion Coefficient μ Based on tabulated values from BS EN 1745		5/15	5/15	5/15
Durability Based on tabulated values in accordance with table 15, PD 6697:2010		3.6 N - Not Frost Resistant 7.3 N & Above - Frost Resistant	Frost Resistant	Frost Resistant
Bond Strengths (N/mm²) Based on tabulated values from BS EN 998-2 Annex C		0.15	0.15	0.15
Mortar Designation	Class iii for walls above DPC Class ii for walls below DPC	1:1:6 Cement:Lime:Sand 1:5 to 6 Cement:Sand 1:1/2:4 Cement:Lime:Sand 1:3 to 4 Cement:Sand	1:1:6 Cement:Lime:Sand 1:5 to 6 Cement:Sand 1:1/2:4 Cement:Lime:Sand 1:3 to 4 Cement:Sand	- 1:1/2:4 Cement:Lime:Sand 1:3 to 4 Cement:Sand

Product Data	**Solid 3.6 N**	**Solid 7.3 N**	**Solid 10.4 N**	**Solid 7.3 N**	**Solid 10.4 N**	**Solid 7.3 N**
Thickness	100	100	100	140	140	300
Unit Weight (kg) Based upon 3% moisture content by weight	14.13	14.13	14.13	19.78	19.78	17.3
Laid Weight (kg/m²)	151	151	151	212	212	458
Pack Size (m²)	9.0	9.0	9.0	6.0	6.0	72 (quantity)
Full Load Qty (m²)	171	171	171	114	114	1296 (quantity)
Available Finishes	Standard	Standard Paintgrade	Standard	Standard Paintgrade	Standard Paintgrade	Standard

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GENERIC GREEN GUIDE RATING

Outer Leaf	Inner Leaf	Plaster & Paint	Plasterboard & Paint
Brick	Masterlite Pro	A+	A+
Render on Masterdenz	Masterlite Pro	A+	A+
Render on Masterlite Pro	Masterlite Pro	A+	A+
Ratings based upon generic Green Guide values supplied by BRE Global Ltd. **https://bregroup.com/products/green-guide.**			

SUSTAINABILITY & LOCAL SOURCING

Energy use and greenhouse gas emissions

Holcim UK is at the forefront of sustainability and has committed to reducing both energy and greenhouse gas intensity 5% year-on-year.

Recyclable

100% of the product can be recycled thus reducing the amount of material that is sent to landfill.

Manufacturing location

Produced in the UK, with locally sourced materials under strict environmental and social legislation, for local supply.

Circular economy

We will maximise reuse and recycle, with zero waste to landfill. We improve resource efficiency through reuse, recovery and/or recycling of waste materials in our production processes. Plus, we minimise the generation of both hazardous and non-hazardous waste.

Responsible sourcing

Holcim UK was the first UK construction company to achieve accreditation to the BES 6001 Framework Standard for the Responsible Sourcing of Construction Products.

Holcim UK has achieved a 'Very Good' rating for major product groups. The BES 6001 standard assesses:

- Quality Management
- Environmental Management
- Health and Safety Management
- Greenhouse Gas Emissions
- Minimising Raw Material Usage
- Labour Practice
- Biodiversity
- Community Engagement.

POLICIES

Holcim UK policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website **www.holcim.co.uk.**

COSHH DATA

Full COSHH data on the Holcim range of products is available on request. Please email **building.products@holcim.co.uk.**

MANUFACTURING STANDARD

The Masterlite Pro range is manufactured using a semi-dry process and is compliant to European Standard BS EN 771-3 and complies with Assessment and Verification of Constancy of Performance (AVCP) system 4, Category II masonry units. All Holcim products are manufactured in accordance with ISO 9001 with factory compliance to ISO 14001.

TECHNICAL SUPPORT

For technical support, including assistance with the preparation of specifications, speak with your sales representative or contact our technical services team via: **building.products@holcim.co.uk** or call **01285 646900.**

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