MASTERDENZ® FAIRFACED

HOLCIM

Masterdenz® Fairfaced is a range of high strength, dense, robust, load-bearing concrete building blocks.

Holcim carefully selects aggregates to ensure a close texture and consistent natural colour to deliver this economical solution for undecorated internal and external masonry walls.

FEATURES & BENEFITS

- Available in solid and hollow formats at 7.3 N/mm^2 for ultimate versatility.
- The consistent texture and colour provides a uniform finish that's perfect for visible surfaces, so no decoration is required.
- Dense and durable, these high strength blocks provide a good background for heavy duty fixings.

APPLICATIONS

- Can be used internally or externally, above and below damp proof course.
- For exposed block walls with no further decoration required.

COMPLEMENTARY PRODUCTS

- Star Performer® Foundation
- Masterdenz Coursing Bricks
- Holcim Mortar
- Holcim Cement
- Holcim Concrete

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TECHNICAL DATA

Block Type		Solid	Solid	Hollow
Face Size (mm)		440x215	440x215	440x215
Thickness (mm)		100	140	215
Dimensional Tolerances		D1	D1	D1
Mean Unit Strength (N/mm²)		7.3	7.3	7.3
Net Dry Density (kg/m³)		1900	1900	1900
Thermal Conductivity (W/mK) Based on tabulated values from BS EN 1745	Internal External	1.01 1.08	1.01 1.08	0.93 0.97
Thermal Resistance (m²K/W)	3% Moisture 5% Moisture	0.099 0.093	0.139 0.130	0.231 0.222
Sound Insulation (Rw dB) Based upon mass law calculation, assuming plaster both sides		43	45	-
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	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		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	1:1:6 Cement:Lime:Sand 1:5 to 6 Cement:Sand	1:1:6 Cement:Lime:Sand 1:5 to 6 Cement:Sand	1:1:6 Cement:Lime:Sand 1:5 to 6 Cement:Sand
	Class ii for walls above DPC	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	1:1/2:4 Cement:Lime:Sand 1:3 to 4 Cement:Sand

Product Data	Solid 7.3 N	Solid 7.3 N	Hollow 7.3 N
Thickness	100	140	215
Unit Weight (kg) Based upon 3% moisture content by weight	18.30	25.60	25.80
Laid Weight (kg/m²)	198	277	273
Pack Size (m²)	7.2	4.8	4.0
Full Load Qty (m²)	136.8	91.2	88
Available Finishes	Fairfaced	Fairfaced	Fairfaced

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GENERIC GREEN GUIDE RATING

Outer Leaf	Inner Leaf	Partition	No Finish
Brick	Masterdenz Fairfaced	-	A+
Render on Masterdenz	Masterdenz Fairfaced	-	A+
Render on Masterlite Pro	Masterdenz Fairfaced	-	A+
-	-	Masterdenz Fairfaced	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 call the Technical helpline on **01285 646900.**

MANUFACTURING STANDARD

The Masterdenz Fairfaced 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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