

Masterblock Masterdenz® Fairfaced

Table 1 - Thermal resistance

Width (mm)	Density	Thermal resistance (m ² K/W)	
		3%	5%
75	Solid	0.074	0.69
100	Solid	0.099	0.093
140	Solid	0.139	0.130
140	Hollow	0.203	0.195
140	Cellular	0.195	0.187
140	Multi cellular	0.246	0.236
190	Solid	0.188	0.176

Table 2 - Unit weights

Width (mm)	Form	Unit weight* (kg)	Built weight (kg/m ²)
100	Solid	18.3	193
140	Solid	25.6	269
140	Hollow	19.8	212
140	Cellular	17.6	190
140	Multi cellular	18.2	196
190	Solid	34.7	365

Based upon 3% moisture content by volume.

Table 3 - Fire resistance (hours)

Width	Form	Fire resistance (hours)	
		Load bearing	Non load bearing
75	Solid	N/A	2
100	Solid	2	2
140	Solid	3	4
140	Hollow	2	3
140	Cellular	2	3
140	Multi cellular	2	3
190	Solid	6	6

Above values assume single leaf, no finishes (based upon BS5628 - 3).

Table 4 - Sound insulation*

Width	Form	Rw dB
100	Solid	43*
140	Solid	45*
140	Hollow	49
140	Cellular	49
140	Multi cellular	49
190	Solid	47*

*Based upon mass law calculation.

Table 5 - Characteristic strength f_k factors (N/mm²)

Width	Form	Compressive strength of units	
		7.30	10.50
75	Solid	N/A	8.20
100	Solid	N/A	8.20
140	Cellular	6.10	N/A
140	Solid	N/A	6.84
140	Multi cellular	5.14	N/A
190	Solid	N/A	5.66

Values based upon BS5628 - 1, assuming M4/type III mortar.

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Manufacturing standards

The Masterdenz range is manufactured using a semi-dry process and is compliant to European Standard BS 771-3 and complies with Assessment and Verification of Constancy of Performance (AVCP) system 4, Category II masonry unit.

All Aggregate Industries' products are manufactured in accordance with ISO 9001 with factory compliance to ISO 14001.

Sustainability and local sourcing

Energy use: Aggregate Industries is at the forefront of sustainability and has committed to reduce carbon emissions by 20% by 2016 based on a 2012 base line.

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.

Responsible sourcing: Aggregate Industries is the first company in the world to achieve a BES 6001:2008 Responsible Sourcing Certificate from BRE Global. Products are assessed on:

- quality management
- environmental management
- health and safety management
- greenhouse gas emissions

- minimising raw material usage
- labour practice
- biodiversity
- community engagement.

Key aggregate and recycled content

Locally sourced aggregates.

Generic Green Guide Rating*

100mm Fairfaced internal partition wall - A*.

Policies

Aggregate Industries' policies on the environment and community, health and safety and sustainable solutions for different product applications can be viewed on our website www.aggregate.com

Installation standard

Plastering/Rendering: Masterdenz blocks provide a moderate to low suction background and require the joints to be raked back and a spatter dash coat applied prior to rendering. When plastering, either Carlite Bonding or Hardwall Plaster or similar should be used.

Health and safety: Manual handling legislation and guidance given in construction sheet number 37, for repetitive manual handling recommend units below 20kg should be considered. Masterdenz fairfaced blocks are available in 140mm hollow, cellular and multicell, which are below 20kg.

Maintenance and cleaning

Aggregate Industries can supply on request advice on general maintenance.

COSHH data

Full COSHH data on the Masterblock range of products is available on request. Please call the technical helpline on 01285 646800.

Technical support

Detailed guidance and assistance with the preparation of specification and use of the Masterblock range of products is available through the sales office. A free technical design service is also available.

For further information, please refer to our technical services on 01285 646800.

*Ratings based upon generic green guide values (2009) supplied by BRE Global Ltd, www.thegreenguide.co.uk

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