△ AGGREGATE INDUSTRIES

Concrete blocks

Masterblock Coursing bricks











A range of high strength, Dense and Lightweight coursing units to compliment our Concrete block range.

- Either solid or frogged units
- Available in both 100mm and 140mm width
- Suitable for 65 and 140mm coursing height
- Eliminates cutting onsite.

Applications

Dense units are suitable for use above and below dpc internally and externally.

Light weight units are suitable for use on internal leaves above dpc.

Standard - Suitable for locations where the surface will not be seen, ie plastered or rendered.

Manufacturing standard

The range is manufactured using a semi-dry process and is compliant to to European Standard BS 771-3, and complies with Assessment and Verification of Constancy of Performance (AVCP) system 2+, Category II masonry units.

Performance

Dimensional tolerances Category	D1
Mean unit strength: Lightweight Dense	10.4 N/mm² 22.5 N/mm²
Net dry density: Lightweight Dense	1550 kg/m³ 2100 kg/m³
Thermal conductivity (W/mK): Lightweight Dense Based on tabulated values from BS EN 1745	Internal 0.63 External 0.68 Internal 1.24 External 1.33
Water vapour diffusion coefficient m: All densities Based on tabulated values from BS EN 1745	5/15
Moisture movement:	

Moisture movement:

All densities <0.9mm/m

Reaction to fire:

Classification to EN 13501-1 A1

Durability:

Lightweight Not to be exposed Dense Frost resistant

Based on tabulated values in accordance with table 15, PD 6697:2010

Bond strengths:

Based on tabulated values from

BS EN 998-2 Annex C 0.15 N/mm²

Coursing bricks

Size mm	215x65	215x65	215x65	215x65
Thickness (mm)	100	140	100	140
Density (kg/m³)	Lightweight	Lightweight	Dense	Dense
Weight (kg)	2.3	3.2	3.1	4.1
Units/m² (approx.)	59.3	59.3	59.3	59.3
No. per pack	320, 384, 512 dependant upon supplying plant and whether void pack, contact sales office for details.			
Pack weight (T)	1.025 1.38, contact sales office for details.			
Colour	Natural	Natural	Natural	Natural
Finish	Standard	Standard	Standard	Standard

Masterblock Coursing bricks

Table 1 - Thermal resistance

Width (mm)	Density	Form	Thermal resistance (m ² K/W)	
			3%	5%
100	Lightweight	solid	0.159	0.147
140	Lightweight	soild	0.222	0.206
100	Dense	solid	0.081	0.075
140	Dense	solid	0.113	0.105

Table 2 - Unit weight

Width (mm)	Density	Form	Unit weight* (kg)	Built weight (kg/m²)
100	Lightweight	solid	2.3	167
140	Lightweight	solid	3.2	233
100	Dense	solid	3.1	215
140	Dense	solid	4.1	286

Based upon 3% moisture content by weight.

Table 3 - Fire resistance (hours)

Width	Density	Form	Load bearing	Non load bearing
100	Lightweight	solid	2	2
140	Lightweight	solid	2	2
100	Dense	solid	2	2
140	Dense	solid	2	2

Above values assume, single leaf, no finishes (based upon $\ensuremath{\mathsf{BS5628}}\xspace - 3).$

Table 4 - Sound insulation*

Width	Density	Form	Rw dB	
100	Lightweight	solid	42	
140	Lightweight	solid	44	
100	Dense	solid	44	
140	Dense	solid	45	

 $^{\star}\mbox{Based}$ upon mass law calculation assuming plastered or painted both sides.

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

Width	Density	Form	Compressive strength (N/mm²)
100	Lightweight	solid	4.1
140	Lightweight	solid	n/a
100	Dense	solid	6.0
140	Dense	solid	n/a

Based upon BS5628 - 1, M4/type III mortar.

Masterblock Coursing bricks

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.

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: Concrete coursing units 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 Hardwell Plaster or similar should be used.

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.

Carnforth, Lancashire Tel: 01524 736636 Fax: 01524 736635 North End, Wiltshire Melbur, Cornwall

www.aggregate.com

Tel: 01726 862222 Fax: 01726 862229



The information contained within this publication was accurate at time of production. However, Aggregate Industries reserves the right to introduce modifications or changes to detail at any time without notice. No charge is levied for this publication or advice therein, and accordingly the company, its employees and authorised agents can accept no liability whatsoever, either indirectly or directly arising from the use of its products in connection with any information or advice contained in this guide.