

AGGREGATE INDUSTRIES

Walling

Bradstone StoneMaster® walling



52%[†] non-primary materials



A robust high strength walling unit, designed to replicate natural stone / Ashlar walling.

- Available as a smooth textured block or a washed finish
- Available in 5 standard colours, see colour swatch below
- 444mm x 219mm face size, for use with 6mm mortar joint
- Contains 52% recycled aggregate (face mix units)
- Robust
- 90mm on bed, to assist in complying with the manual handling regulations
- Combine strength, durability and decorative appeal for both external and internal use.

Applications

Suitable for use above and below dpc both internally and externally.

Through mix units to be ordered for window & door reveals etc. Note: return end on washed units is smooth.

Quoin units are cut and bonded.



Manufacturing standards

The 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.

Colour swatches



1. Buff Smooth
2. Buff Washed
3. Ebony Smooth
4. Ebony Washed
5. St Bees Red Smooth
6. St Bees Red Washed
7. Portland Smooth
8. Portland Washed
9. Silver Birch Smooth
10. Silver Birch Washed

[†] Represents non-primary material within the complete mix design.

StoneMaster walling

Size (mm)	444x219
Thickness (mm)	90
Density	2050
Weight (kg)	19.0
Units/m ² (approx)	9.9
No. per pack	54
m ² /per pack	5.4
Pack weight (T)	1.05
Colour available	Portland, Buff, Silver Birch St Bees Red, Ebony
Finish	Smooth or Washed



NBS Plus Clause: F10 255. For NBS clauses, refer to our technical services

Bradstone StoneMaster® walling

Performance

Dimensional tolerances

Category D1

Mean unit strength

Solid 7.3N/mm²

Net dry density

2050 kg/m³

Thermal conductivity W/mK

Internal 1.18
External 1.27

Based on tabulated values from BS EN 1745

Water vapour diffusion coefficient m

All strengths 30/100

Based on tabulated values from BS EN 1745

Moisture movement

<0.8mm/m

Reaction to fire

Classification to EN 13501-1 A1

Durability

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

Bond strength

Based on tabulated values from BS EN 998-2 Annex C 0.15N/mm²

Table 1 - Thermal resistance

Width	Form	Thermal resistance (m ² K/W)	
		3%	5%
90	solid	0.076	0.071

Table 2 - Unit weights

Width	Form	Unit weight* (Kg)	Built weight (Kg/m ²)
90	solid	19.0	194

Based upon 5% moisture content by Volume

Table 3 - Fire resistance (hours)

Width	Form	Load bearing	Non load bearing
90	solid	1.0	6.0

Above values assume, cavity wall construction (based upon BS5628 - 3)

Table 4 - Sound insulation

Width	Form	Rw dB
90	solid	43

Based upon mass law calculation

Table 5 - Characteristic strength FK factors

Width	Form	Character strength Fk (N/mm ²)
90	solid	6.40

Based upon BS 5628 pt 1, M4 / Type III mortar

Bradstone StoneMaster® walling

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 accreditation to the BES 6001 Framework Standard for the Responsible Sourcing of Construction Products. Aggregate Industries has achieved an 'Very Good' rating for major product groups. The BES 6001 standard assesses:

- quality management
- environmental management
- health and safety management
- a range of social and environmental issues.

Life

Life is our range of sustainable products and services. For more information please visit www.aggregate.com/life

Key aggregates and recycled content

Locally sourced aggregates.

Generic green guide rating

Smooth stone external leaf of insulated cavity wall with either Masterdenz, Masterlite Pro or Ultra innerleaf, Plastered and painted – **A+**.

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

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

We recommend the use of M4, type III mortar (1:1:6) and movement joints within 3 metres of any corner / return and within 6 metres on any linear run.

Ladder type bedjoint reinforcement should be included in two courses above and below all openings, extending at least 600mm either side.

Health & Safety:

Repetitive manual handling can pose a potential serious risk to health and as such guidance given in CIS 37 should be adhered to.

Maintenance and cleaning

Aggregate Industries can supply on request advice on general maintenance.

COSHH data

Full COSHH data on the Bradstone range of products is available on request. Please call the Technical helpline on 01285 646900

Technical support

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

Use the enquiry form or call our technical services on 01285 646900.

North End, Ashton Keynes,
Wiltshire SN6 6QX

Tel: 01285 646900

www.aggregate.com

