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| Uniclass L322 | EPIC F611 |
| CI/SfB (2-) | Ff5 |
| 2006 | |

PD12



Product Data

Stone Faced Masonry Range

Description

Stone Faced Masonry blocks comprise a range of dense, high strength, loadbearing units, 440 x 215mm face size, used in internal or external walls. They combine highly polished Marble and Granite bonded onto a Lignacrete backing block.

The blocks are natural in colour, with a smooth, polished texture, giving the "Blackest Black" and the "Whitest White".

Stone Faced Masonry blocks are available in natural polished stones, midnight granite and moon light marble.

Manufacturing Process

Stone Faced Masonry is assembled using a 10mm stone slip, which is fixed to a dense concrete masonry unit using the latest construction adhesive technology. This system has been rigorously tested for shear resistance and pull off. In addition the finished product has been subjected to a fire test and a freeze thaw process.

Special Shapes

A range of special shapes are available, including quoin blocks, face and end blocks as well as Trough lintel blocks. These units use mitred joints, utilising the bonding process as used on the standard block. Please contact our sales office with regard to your special shape requirements.

Uses

Suitable for use below DPC both internally and externally.

Standard

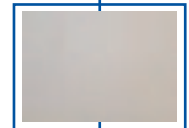
Lignacrete backing blocks are kitemarked as conforming to BS EN 771-3 Aggregate Concrete Masonry Units. They comply to Category 1 Masonry Units and are manufactured under a comprehensive Quality Assurance Scheme assessed and certified to BS EN 9001:2000 by the BSI.

Fire

Stone Faced Masonry units provide excellent fire resistant properties.



Midnight Granite



Moonlight Marble

Dimensional Tolerances

| | |
|--|------|
| Category: | D1 |
| (Closer tolerances available on request) | |
| Flatness of surface: | <2mm |

Mean Unit Strength

| | |
|----------------------|--|
| Stone Faced Masonry: | 7.3, 10.4, 17.5, 22.5 & 35N/mm ² (Solid form) |
|----------------------|--|

Net Dry Density

| | |
|--|-----------------------|
| Stone Faced Masonry <20.0N/mm ² : | 2000kg/m ³ |
| Stone Faced Masonry >20.0N/mm ² : | 2100kg/m ³ |

Thermal Conductivity (W/mK)

| | |
|--|-----------------|
| Stone Faced Masonry <20.0N/mm ² : | Internally 1.33 |
| Based on tabulated values from BS EN 1745 | Externally 1.43 |
| Stone Faced Masonry >20.0N/mm ² : | Internally 1.46 |
| Based on tabulated values from BS EN 1745 | Externally 1.56 |

Water Vapour Diffusion Coefficient μ

| | |
|---|------|
| Stone Faced Masonry: | 5/15 |
| Based on tabulated values from BS EN 1745 | |

Moisture Movement

| | |
|----------------------|-----------|
| Stone Faced Masonry: | <0.06mm/m |
|----------------------|-----------|

Water Absorption by Capillarity

| | |
|----------------------|--|
| Stone Faced Masonry: | <200g/m ² /S ^{0.5} |
|----------------------|--|

Reaction to Fire

| | |
|-----------------|----|
| Classification: | A1 |
|-----------------|----|

Durability

| | |
|---|-----------------|
| Based on tabulated values from BS 5628-3 table 12 | Frost resistant |
|---|-----------------|

Bond Strengths

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

Thermal Resistance - Table 1 <20N/mm²

| Width (mm) | Form | Thermal Resistance (m ² K/W) | |
|------------|-------|---|-------|
| | | 3% | 5% |
| 100 | Solid | 0.068 | 0.063 |

Unit Weights - Table 2

| Width (mm) | Form | Unit Weight (kg) | Weight laid inc Mortar (kg/m ²) |
|------------|------|------------------|---|
| | | 100 | Solid |

Fire Resistances (hrs) - Table 3

| Width (mm) | Form | Loadbearing | Non Loadbearing |
|------------|------|-------------|-----------------|
| | | 100 | Solid |

Sound Insulation Rw(C;Ctr)dB - Table 4

| Width (mm) | Form | Lightweight Plaster | Dense Plaster | Dry lined | Fair faced |
|------------|------|---------------------|---------------|-----------|------------|
| | | 100 | Solid | - | - |

*Estimated value based upon mass law calculation.

Sound Absorption - Table 5

| Frequency (Hz) | Sound absorption coefficient a _p |
|--|---|
| 125 | 0.01 |
| 250 | 0.01 |
| 500 | 0.01 |
| 1000 | 0.01 |
| 2000 | 0.01 |
| 4000 | 0.01 |
| Weighted Sound Absorption Coefficient a _w | 0.01 (estimated values) |