



EchoCheck

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Detailed description

Slotted face acoustic masonry blocks with enhanced acoustic properties that are achieved through the use of Helmholtz resonating chambers. They have been developed to reduce sound reverberation in both internal and external applications, promoting clarity to speech or music and reducing overall noise levels.

Manufactured from cement, porous aggregates (65% recycled secondary aggregate content), an integral waterproofing and colour pigment.

Features and benefits:

- Cost effective solution to controlling sound reverberation.
- Creates a quieter space.
- Satisfies the requirements of Building Bulletin 93 (BB93).
- Delivers a noise reduction coefficient (NRC) of: EC100: 0.55 aw; EC140: 0.75 aw; EC215: 0.65 aw.
- Reduces reverberation time.
- Designed to deal with difficult to control, low frequency sounds.
- Robust and can withstand frequent impact.
- Available in a variety of colours.
- Can be roller painted - consult manufacturer for details.
- Minimal maintenance required.
- Fire-resistant and will not contribute to the spread of flame.
- Loadbearing capacity.
- Waterproof, and will retain a fresh, clean appearance.
- Efflorescence-free.
- When used to construct the internal leaf of the cavity wall of a building, this product adds to the overall airtightness, improving the thermal efficiency and contributing to the minimization of energy use.
- Can be used in conjunction with other Colinwell products, including Acousta Tex.

Applications:

Suitable for use in the construction of external and internal loadbearing and non-loadbearing walls, including the inner and outer leaves of cavity walls, party walls, partition walls and boundary walls. Can also be used as reinforced masonry walls through incorporation of bed joint reinforcement.

Other applications include:

- Plant rooms.
- Classrooms.
- Lecture theatres.
- Gymnasiums.

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- Swimming pools.
- Arenas.
- Factories.

A 1:1:6 cement:lime:sand mortar is suitable for use with this product.

CE-marked and manufactured in accordance with BS EN 771-3, BS 5628-1, ISO 9001 and ISO 14001.

Product guidance - As Standard

Finish:

Smooth.

Weight:

- Colinwell EchoCheck Block EC100: 17 kg.
- Colinwell EchoCheck Block EC140: 19.5 kg.
- Colinwell EchoCheck Block EC215: 24.5 kg.

Technical characteristics:

- Drying shrinkage (to BS EN 772.4): <0.04%.
- Water absorption: <5%.
- Tolerance category (to BS EN 771.5): D2.
- Mean compressive strength: 15 N.
- Average density: 2100 kg/m³.
- Moisture content: 3% (internally).
- Thermal conductivity (K-value): 1.28 W/m·K.
- Shear bond strength (to BS EN 998.2, Annex C): 0.15 N/mm².
- Maximum moisture movement: 0.15 mm/m.

Sound absorption coefficient (to BS EN ISO 354: 2003):

- At 125 Hz: 0.23 (EC100), 0.55 (EC140), 0.75 (EC215).
- At 250 Hz: 0.80 (EC100), 0.95 (EC140), 0.75 (EC215).
- At 500 Hz: 0.70 (EC100), 0.80 (EC140 and EC215).
- At 1000 Hz: 0.44 (EC100), 0.65 (EC140), 0.60 (EC215).
- At 2000 Hz: 0.42 (EC100), 0.55 (EC140), 0.55 (EC215).
- At 4000 Hz: 0.39 (EC100), 0.55 (EC140), 0.50 (EC215).

Options

Colour:

- Bracken – Recommended mortar: Maroon U53.
- Brown – Recommended mortar: Brown H21.
- Buff – Recommended mortar: Beige E74.
- Cream – Recommended mortar: Cream G89. White cement should



be used in the mix.

- Green – Recommended mortar: Green N70. White cement should be used in the mix.
- Heather – Recommended mortar: Maroon U43.
- Honey – Recommended mortar: Tan C30.
- Natural – Recommended mortar: Standard.
- Oatmeal – Recommended mortar: White J88. White cement should be used in the mix.
- Ochre – Recommended mortar: Ochre R95. White cement should be used in the mix.
- Red – Recommended mortar: Orange T36.
- Salmon – Recommended mortar: Coral A80. White cement should be used in the mix.
- Sandstone – Recommended mortar: Cream G89. White cement should be used in the mix.
- Straw – Recommended mortar: Yellow D10.
- Whinstone – Recommended mortar: Black L62.
- White – Recommended mortar: White J88. White cement should be used in the mix.

Joint:

The spacing between control joints should be at 6–10 m intervals.

Accessories/ Other requirements:

Non-standard components and specials may be cut from standard units or, depending on quantity, manufactured to individual requirements. Consult manufacturer and insert requirements.

Product specification

Manufacturer

- Name: Colinwell Masonry
- Web: www.colinwell.com
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Product reference

Colinwell EchoCheck Block
EC100 - 215 x 100 x 440 mm
(h x w x d).
Colinwell EchoCheck Block
EC140 - 215 x 140 x 440 mm
(h x w x d).
Colinwell EchoCheck Block



EC215 - 215 x 215 x 440 mm
(h x w x d).

Colour

- Block

- Mortar

Mortar mix

Joint

Accessories/ Other requirements

Not required
Bond-beam blocks
Cavity closers
Cills
Half blocks
Lintels
Quoins
Squints