

Sumatec[®] Earth Blocks

Information Sheet



1. Product

Sumatec[®] blocks are manufactured from clay

2. Suitable Uses

Sumatec[®] extruded earth blocks are unfired blocks and as such should not be used as an external wall, but are ideal as an internal leaf of certain exterior walls or as an internal partition walls, especially where there is a requirement for a good acoustic wall with high thermal mass. Sumatec[®] blocks can help inhibit condensation and regulate the relative humidity of the internal atmosphere.

3. Composition

Unfired clay blocks have excellent sustainability credentials – low energy input, very low waste and high recyclability. Sumatec[®] is manufactured in the UK.

4. Performance

Sumatec[®] extruded earth blocks have been developed to combine good compressive strength and high thermal mass with good acoustic and fire properties. They are manufactured to a typical compressive strength of at least 3 N/mm².

5. Technical Data

Size 215 x 215 x 100mm (Holes laid vertically)

Average Density	1950 Kg/m ³
Min. Compressive Strength	5 N/mm ² (*3N/mm ²)
Weight (Kg) approx.	Approx. 9kg
Length	215mm
Height	215mm
Width	100mm

*Holes laid horizontally



6. Packing

Sumatec[®] extruded earth blocks are delivered 128 no blocks per pallet.

7. Storage

Sumatec[®] extruded earth blocks should be stored in the dry on the delivery pallet and ventilated to avoid condensation. On site, stacking should normally be restricted to two pallets high.

8. Quality Assurance

The product undergoes in-house monitoring using a quality management system which conforms to the current international standard EN ISO 9001 and the environment standard EN ISO 14001.

9. Health and Safety

See separate Health and Safety COSHH sheet

10. Block laying

A regular bond pattern should be maintained, based on a minimum overlap of a quarter of a block.

Lintels should bear onto full blocks, wherever possible.

Cut blocks should always be used for irregular and non-standard spaces; bricks, mortars or other dissimilar materials should never be used.

Blocks can be laid on edge, using Limetec[®] Sodium Silicate Mortar with standard 10mm joints or they can be laid flat using Limetec[®] Hydraulic Lime Mortar.

11. Cutting & Drilling

Site waste can be kept to a minimum when using Sumatec[®] extruded earth blocks as special shapes and infill pieces can be cut using hand tools. Holes can be made with a normal drill.

12. Fixing

Fixing into Sumatec[®] extruded earth blocks will generally only require standard fixing. Plugs with screws, resin fixings or nails as appropriate will provide reliable fixings.

13. Finishes

Unfired bricks must be finished with a breathable material like lime plasters and finishes, such as Lime Technology's Lime Plaster RK 38 basecoat*, with 2-3mm of Lime Plaster RK 38 for a sponge float finish or the RK 70 Internal Plaster Finish for a fine finish or KG 30 for a smooth trowelled finish. The finish can be painted with any colour, as long as a proprietary water based breathable paint is used.

*AG01 mesh is recommended in the basecoat.

