

Sumatec® Earth Blocks Technical Information

Sumatec® 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.

Technical Data:

Average density (Kg/m ³)	1650 - 2200
Min. compressive strength (N/mm ²)	3
Weight (Kg) approx.	15 - 20kg
Thickness (mm) can be varied	100mm typical
Height (mm)	254, 178 or 203
Length (mm)	356



1.0 Site Practice

1.1 Storage

Sumatec earth blocks should be stored on a dry, level surface and should be covered to protect them from severe weather. On uneven ground and on site, stacking should normally be restricted to two pallets high.

1.2 Block laying

- A regular bond pattern should be maintained, based on a minimum overlap of a quarter of a block.
- Blocks should be laid flat.
- Lintels should bear on to 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 should be laid on a full bed of lime mortar or laid with an earth slurry.
- Blockwork should be protected from adverse weather during and immediately after laying.
- Earth slurry mortar is recommended.
- Blocks should be laid in accordance with the current BS Code of Practice for blockwork.

1.3 Cutting / Drilling

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

1.4 Fixing

Fixing into Sumatec earth blocks is easy. Plugs with screws, resin fixings or nails as appropriate will provide reliable fixings.

1.5 Health and Safety Information

When cutting or drilling Sumatec earth blocks, the following personal protective equipment should be worn:

- Safety goggles
- Dust mask
- Safety gloves
- Protective footwear

Manual handling should be undertaken in accordance with HSE guidelines.

