

Sumatec®

Compressed Earth Blocks Technical Information

Overview

Sumatec® compressed 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.

Product data

- Average Density (Kg/m³) _____ 1650-2200
- Min. Compressive Strength (N/mm²) _____ 3 (on edge) 17 (when laid flat)
- Weight (Kg) approx. _____ 15-20kg
- Thickness (mm) can be varied _____ 100mm typical
- Width (mm) _____ 254, 178 and 203
- Length (mm) _____ 358

Storage

Sumatec® compressed 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.

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 material should never be used.
- Blocks should be laid on a full bed of mortar (earth slurry or lime mortar).
- 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.

FACT SHEET INFO KINDLY SUPPLIED BY:



Cutting & drilling

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

Fixing

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

Health & safety information

When cutting or drilling Sumatec® compressed 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.