

nattera™ Clay- plasterboard blocks

Overview

The nattera™ clay-plasterboard blocks have been developed by Akristos Limited through a project sponsored by the The Waste and Resources Action Programme (WRAP) as part of its programme to develop a range of potential end uses for recycled plasterboard waste.

Natural, unfired clay is used as a binding agent and to facilitate extrusion of the composite blocks through the use of traditional brick making technology. The blocks are dried (using waste heat) to develop a low embodied energy block containing a significant proportion of recycled plasterboard (+50%) with enhanced physical properties compared with natural clay.

There are a number of advantages in the use of recycled plasterboard in the manufacture of an unfired clay block:

- High recycled content
- Low embodied energy
- Low CO2 emissions
- Improved flexural and compressive strength
- Improved fixing strength
- Moisture and odour absorption properties
- Fully recyclable



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naterra™ Unfired clay blocks

The clay-plasterboard block has the potential to incorporate recycled plasterboard from factory waste, new build or demolition sources. The product is now available following full-scale factory trials which were undertaken with our production partners to demonstrate and establish the technical, economic and environmental benefits of using recycled plasterboard in the manufacture of a natural block product.

Product data

- Length (mm) _____ 440
- Height (mm) _____ 220
- Width (mm) _____ 100, 110 or 120
- Density (kg/m²) _____ 1875
- Weight (kg) _____ ~18
- Min. compressive strength (N/mm²) _____ 3

Health and Safety Information

Personal protective equipment should be worn when cutting or drilling the naterra™ blocks. Manual handling should be undertaken in accordance with HSE guidelines. Further information is available from the technical department.

Usage Guidance

Storage: The blocks should be stored on a dry, level surface and should be stacked no more than two packs high.

Block laying: A compatible clay-based mortar system is available from Akristos Limited.

Fixing: Standard fixings are recommended – a list of approved products is available on request.

Finishing: Guidance on the most appropriate finishing can be obtained from the technical department.

For quotations and technical information please contact **Back to Earth** on the details below.

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