

## Natural walls and ceilings

### With woodwool boards - a versatile, natural material

Continuing our series on Fab Features and Euro Norms

#### 20 Fab Features – Part IV - Duolay Matrix

In the first three parts we featured the most important raw material for the manufacture of woodwool board - woodfibres, magnesite cement and salt. Now we are ready to make woodwool board as it were!

Anutone's Ekcel research engineering achieved a significant technology breakthrough in the latter part of the last decade for the manufacture of woodwool boards - Duolay Matrix! For Strand Plus and Strand, above 20mm thickness, Anutone's Ekcel now deploys the Duolay Matrix technology.

#### What is Duolay Matrix?

Hitherto, woodwool boards were made with a single matrix of fine fibres for Strand Plus, medium fibres for Strand and coarse for Strandec. Duolay Matrix means Strand Plus and Strand now come with a perfect blend of fine or medium fibres on the top and a coarse fibre base.

#### How do customers gain from Duolay Matrix?

Improved strength - Coarse fibres at the bottom form a stronger base for the fine or medium fibres on the top

Cost savings - fine and medium fibres are more expensive, coarse fibres are less. Duolay Matrix ensures an optimal blend.

Variable acoustics - soundwaves encounter a variable impedance due to the dual geometry of fibre matrix.



Fine fibre top for aesthetics



Coarse fibre bottom for strength



Side view of Duolay Matrix - variable acoustics



#### Euro Norms - Part IV - Flatness

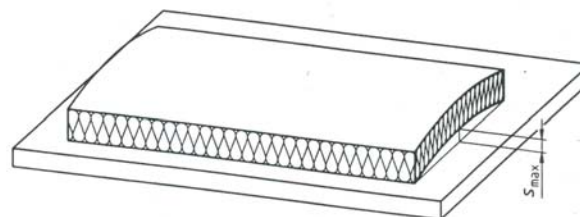
EN 13168 is the global standard on factory-made woodwool boards and consists of many standards that govern its clauses. Anutone's Ekcel Lab has the complete set of such standards for its own working and reference by others. The fourth in the series is:

#### EN 825 – Determination of flatness

This standard specifies the equipment and procedures for determining the deviation from flatness of full-size products.

The principle is the maximum distance between the product placed on a flat surface and the flat surface is measured in which the product is placed with the convex side uppermost. The apparatus includes a flat surface, metal rule or tape graduated in 0.5mm and a rigid frame with a movable measuring device consisting of a disc with a diameter of 30mm fixed to a graduated pin or dial gauge applying a load.

The test specimen is a full-size product conditioned to 23°C and 50RH for 6 hours. It is laid on the flat surface with convex surface, if any, uppermost. It is measured for deviation from flatness.



An example of measuring the flatness of insulation boards

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Let me know what you feel about 'eboard'? We welcome your views to enable us to provide you with news about magnesite boards that you need most.

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