System STRAW

The JUPITER Ideal STRAW system is a 150 kPa engineered underfloor heating system manufactured from natural straw fibre sourced from annually renewable sources. For centuries, straw has been used in house construction due to its permeability and robustness, Furthermore, straw has a layer of silica which acts as a natural fire protection. During growth straw binds carbon and therefore reduces the impact of CO_2 on the atmosphere. 1 tonne of straw stores approximately 420 kilograms of carbon – an incredible capacity which remains largely unexploited .

100% ecological – rather than using man-made adhesives, the JUPITER raw straw material is bound with a special lime-based binder.

The pipe channels are CNC routed to accept a mechanical fitted aluminium diffusion plate. This new patented method of fixing removes the historic gluing process which now allows for far easier recycling.

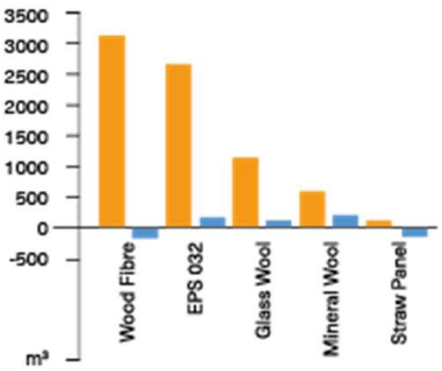
Technical Properties

30mm natural straw fibre radiant heating panel system
Chemical and plastic free
100% Recyclable – ∴ carbon neutral.
Carbon negative depending on aluminium evaluation
Panel dimensions 1000mm x 500mm x 30mm. Pipe distance 125mm.

- Sustainable
- Healthy living
- Fire resistant
- Robust
- Compostable
- Resource saving
- Annually renewable
- Anti-allergy

Thermal conductivity	0.050 W/(mK)
Thermal resistance	R=0.55 m^2K/W
Acoustic improvement	ΔLw to 22 dB
Density	240 kg/m^3
Compressive strength	150 kPa
Pipe distance	125mm
Pipe diameter	16mm
Fire class EN13501	E
Panel dimension	1000 x 500 x 30mm

All aluminium diffuser plates are fixed using patented mechanical fixing technique. No adhesive used. System is confined to only two, fully recyclable materials.



- PE, Primary energy content (non-renewable) MJ
- GWP100, Global warming potential CO^2 equivalent

Source: Maxit

PC125 panel
1000mm x 500mm x 30mm

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