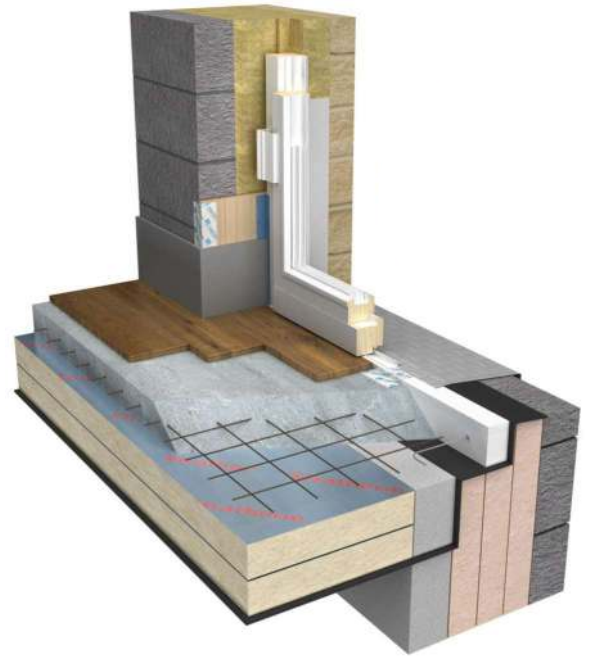


Specialist insulation products



Compacfoam CF200

High strength insulation for minimising thermal bridging

Compacfoam CF200 can be used in a wide range of applications to help reduce thermal bridging. It is ideal for situations where structural support and secure fixings into a material are needed. Compacfoam CF200 is often suitable as a substitute for timber to help reduce thermal bridging.

What is Compacfoam?

Compacfoam CF200 is a lightweight rigid insulation made from thermoplastic foam, based on polystyrene, that combines high compressive strength with excellent thermal insulation. Compacfoam is manufactured using a unique process which involves thermally bonding polystyrene balls to achieve high densities.

Summary

- High compressive strength
- Good screw pull-out resistance
- Easy to drill and saw
- Thermal conductivity: 0.046 W/mK
- Density: 200 kg/m³

Ideal for

Door installation to reduce thermal bridging around thresholds, with the compressive strength to support door frames and room high façade systems.

Window installation to reduce thermal bridging around window frames:

- Under large window units
- Enabling the window to be supported within external insulation
- In a bay window type situation to provide a structure (e.g. corner posts)

Internal wall insulation to enable secure fixing across softer IWI insulation eg fixing floor/wall plates, curtain rails or sockets.

Performance standards

- Thermal conductivity = 0.046 W/mK
- Average stress at 5%: 2.56 N/mm²
- Average stress at 2%: 1.91 N/mm²
- Modulus of elasticity in linear-elastic range (E-Module): 102 N/mm²
- Recommended stress level (under service load): 1.01 N/mm²
- Water vapour diffusion resistance factor: 25
- Maximum water absorptive capacity during complete submersion: 5 -10%
- Material behaviour in response to fire, according to EN 13501: Euroclass E
- Elongation at maximum force (maximum strain at failure load): >10%
- Final creep rate (anticipated long-term deformation at serviceability limit state): <3%

Easy to work with

Compacfoam can be cut, sawn and drilled in much the same way as timber, with standard metal cutting or woodworking machinery. Use saw blades with large distances between the teeth or milling blades, to avoid the material 'melting'.

Dimensions

- Available in 4 sizes of rectangular blocks
- Width/height: 100 mm x 150/75/50/20 mm
- Length: 970 mm
- Other dimensions available to special order

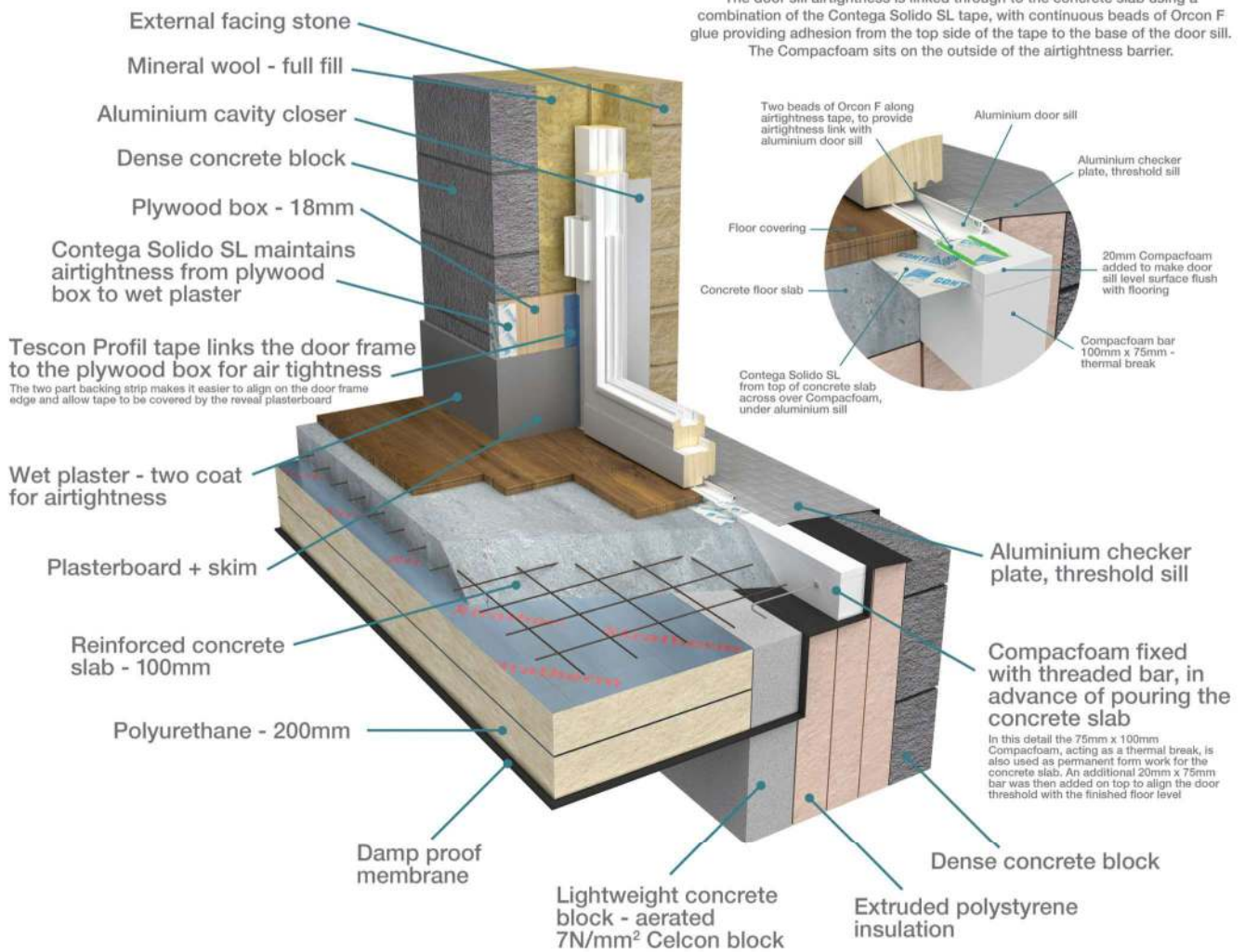


Compacfoam Door Threshold Installation Detail

Example installation with full fill cavity wall and 75mm x 100mm Compacfoam as per the Golcar Passivhaus.

Golcar house, airtightness detail for door sill

The door sill airtightness is linked through to the concrete slab using a combination of the Contega Solido SL tape, with continuous beads of Orcon F glue providing adhesion from the top side of the tape to the base of the door sill. The Compacfoam sits on the outside of the airtightness barrier.



This detail could also be applicable for larger window units. For more examples of Compacfoam use, see our website.

For more information and to get a quote, please call our sales team on 01484 461705 or email info@greenbuildingstore.co.uk

