

Version V1.0
Technical Data Sheet



CEMBLOC.
DryBloc[®]
Heatflow 18

HEATFLOW UFS



TECHNICAL DATA

Drybloc® Heatflow TG4 Description.

Technical Datasheet

CEMBLOC® DryBloc® Heatflow TG4 is an 18mm CNC routed fibre cement overlay board developed for warm water **underfloor heating** applications - Non Structural. The board is manufactured from high density fibre cement and incorporates a precision routed profile designed to accommodate 12mm underfloor heating pipework, allowing the pipework to sit neatly within the board surface before the chosen floor finish is applied.

Designed as a dry-fit alternative to traditional wet screed systems, DryBloc® Heatflow TG4 helps reduce overall floor build-up height while removing the need for lengthy screed drying periods. This makes it particularly suited to refurbishment projects, fast-track programmes and applications where a thinner, cleaner and more predictable floor construction is required.

The fibre cement composition provides a robust, stable and non-combustible flooring layer with excellent dimensional stability and resistance to moisture. DryBloc® Heatflow TG4 combines the strength and durability of fibre cement with a routed underfloor heating profile, offering a practical solution where low build-up, faster installation and long-term floor performance are key project requirements.

DryBloc® Heatflow TG4 is a superior CNC routed fibre cement flooring board with exceptional dimensional stability of <0.19%, compared with alternatives such as chipboard, gypsum fibreboard and cement bonded particle board.

Advantages Of Use.

- 18mm fibre cement board, CNC routed for 12mm UFH pipework.
 - A1 fire class, non-combustible fibre cement construction.
 - Dry system, eliminates the drying times associated with wet screeds.
 - High density board helps improve robustness and airborne sound performance.
 - Moisture resistant and suitable for demanding floor applications.
 - Tongue and groove TG4 profile for stable board-to-board connection.
 - Can be used over timber joists, steel joists and suitable deck build-ups.
 - Suitable for new build and refurbishment floor projects.
- Excellent dimensional stability compared with chipboard and gypsum alternatives.
 - Highly impact resistant compared with gypsum based boards.
 - Compatible with bonded floor finishes subject to correct preparation.
 - Can be primed and finished in accordance with the selected floor finish supplier.
 - Designed to act as a low-profile screed replacement for UFH installations.
 - Asbestos free and does not contain harmful substances to health.
 - Easy assembly and modification with appropriate PCD cutting equipment.
 - Supports fast installation sequencing on site

Standard Dimensions.

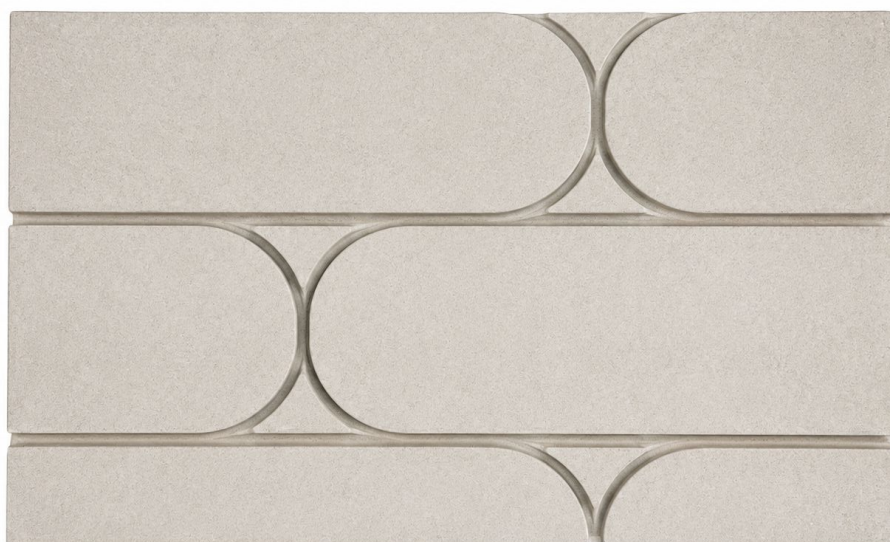
Thickness	Dimensions
18mm.	1200 x 600mm nominal board size, routed for 12mm UFH pipework



Technical Specifications.

Structural - To span across joists?	No
Water Impermeability	Pass - No formation of drops of water was found after being tested.
Thermal Insulation	0.133 m2K/w (20mm)
Thermal Conductivity	0.216 W/mK
Bending Strength (Modulus Of Rupture as tested on 18mm variant)	MOR Average 20,31 MPa, Equilibrium condition: MOR average: 21,95 MPa, Wet condition: MOR average: 20,31 MPa,
Recommended Span (with a 18mm structural underlayer)	<450mm (18mm)
Water Absorption	<29%
Wet Expansion Rate	0.19%
Heating Shrinkage Rate	0.18%
Density	1350 kg/m ³ (± 50kg)
Fire Propagation	Class "0" (<2) (BS 476-Part 6)
Fire Resistance	Class 1 (BS 476-Part 7)
Combustibility	Non-Combustible
Reaction to Fire Classification: tested in accordance with BS EN 13501-1:2018	AI

DryBloc® Heatflow TG4 CNC Routed Profile.
For 12mm UFH pipework



Product Applications.

DryBloc® Heatflow TG4 - Timber Joisted Floor Build-up

- Engineered floor finish.
- 12mm UFH pipework laid within CEMBLOC® DryBloc® Heatflow routed overlay board (Non structural layer)
- 18mm Structural Layer (recommended)
- 200mm minimum timber joists.
- 100mm, 45kg/m³ mineral wool insulation.
- 12/15mm plasterboard.

Dry-fit panels that reduce build times compared to wet screeds



DryBloc® Heatflow TG4 - Concrete In-situ Floor Build-up

- Ceramic tiles or selected floor finish.
- Levelling compound or adhesive layer to achieve SR2 flatness.
- 12mm UFH pipework laid within CEMBLOC® DryBloc® Heatflow routed channels.
- CEMBLOC® DryBloc® Heatflow TG4 CNC routed fibre cement floorboard.
- 200mm reinforced in-situ concrete slab.

Dry-fit panels that reduce build times compared to wet screeds



Areas Of Use.

- Residential projects: bathrooms, kitchens, utility rooms, conservatories
- Commercial spaces: offices, hotels, gyms, wellness centers
- New-build flooring systems where UFH is required
- Renovations and refurbishments requiring quick UFH integration
- Concrete screed floors
- Timber joist floors
- Wet rooms and areas with high moisture levels
- Underfloor heating in combination with tiled or wooden floors



Contact us.

Let's talk about your project.

We are proud of our reputation for excellent service.

Whether you require, part or full load deliveries, our team will make sure we do everything possible to help you and your project, as together we can build better.



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