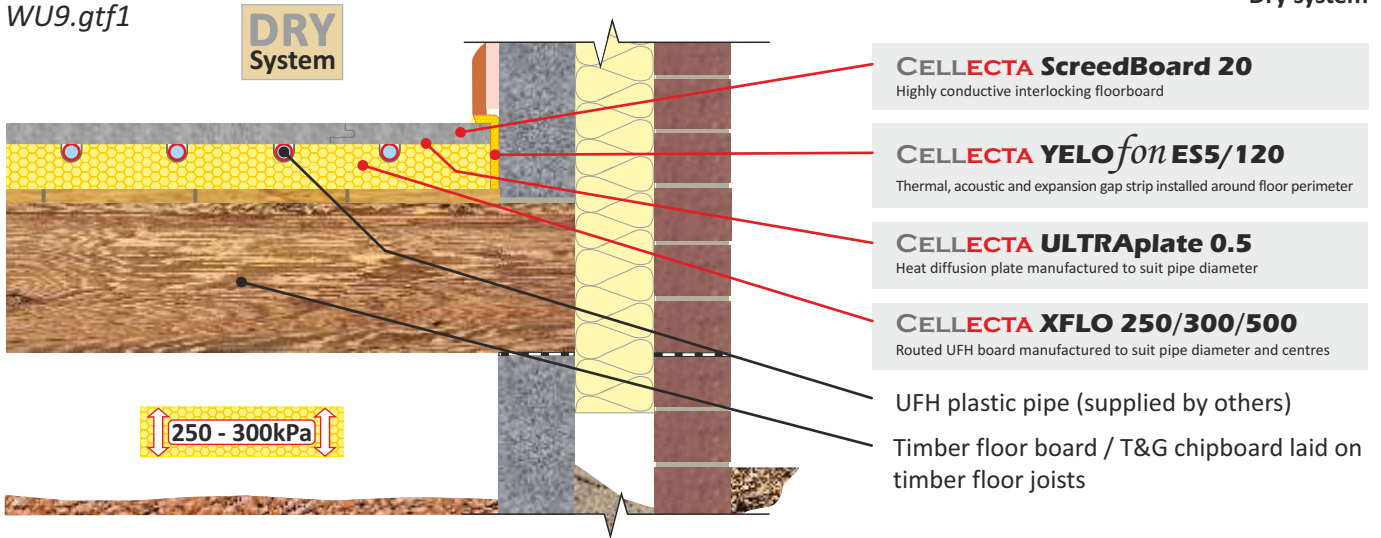


# Suspended ground floor - Solid timber joists

Underfloor heating pipe inserted into **CELLECTA XFLO** underfloor heating insulation boards  
**CELLECTA ScreedBoard 20** laid over UFH boards  
 Dry system

WU9.gtf1



## UFH Insulation Board



CELLECTA's **XFLO** boards are manufactured to suit the pipe diameter and spacing required to achieve the desired thermal output. The board's high compressive strength enables it to withstand the rigours of the installation process as well as the long term loads imposed in residential and commercial applications.

### Key Benefits

- High resistance to compression - 250, 300 & 500kPa
- Manufactured to suit pipe and spacing required
- Works in conjunction with acoustic treatments
- Outstanding thermal output

### Physical Properties

|  |      | XFLO                       |                            |                            |
|--|------|----------------------------|----------------------------|----------------------------|
|  |      | 250                        | 300                        | 500                        |
|  |      | High strength UFH board    | High strength UFH board    | Ultra strength UFH board   |
| Strength at 10% compression                    | kPa  | 250                        | 300                        | 500                        |
| Thermal conductivity                           | W/mK | 0.033                      | 0.033 ≤80mm<br>0.034 >81mm | 0.035                      |
| Temperature range                              | °C   | -50/+75                    | -50/+75                    | -50/+75                    |
| Route sizes available (to suit pipe diameter)  | mm   | 10, 12, 14, 15, 16, 18, 20 | 10, 12, 14, 15, 16, 18, 20 | 10, 12, 14, 15, 16, 18, 20 |
| Pipe centres                                   | mm   | 150, 200, 300              | 150, 200, 300              | 150, 200, 300              |
| Board size                                     | mm   | 600 x 2500                 | 600 x 2500                 | 600 x 1200*<br>600 x 1250  |
| Thickness* (other sizes manufactured to order) | mm   | 20, 25, 30, 35             | 40, 50, 60, 75             | 15*, 18*, 50, 60, 75       |

## Typical Thickness of UFH Insulation Required

| P/A ratio | XFLO 300 (mm) |      |      |      |      |      |      |      |
|-----------|---------------|------|------|------|------|------|------|------|
| 0.7       | 75            | 100  | 120  | 130  | 150  | 180  | 220  | 270  |
| 0.6       | 70            | 90   | 100  | 130  | 150  | 175  | 210  | 270  |
| 0.5       | 70            | 90   | 100  | 120  | 140  | 170  | 210  | 260  |
| 0.4       | 60            | 80   | 100  | 110  | 130  | 160  | 200  | 250  |
| 0.3       | 50            | 70   | 80   | 100  | 120  | 160  | 190  | 240  |
|           | 0.25          | 0.22 | 0.20 | 0.18 | 0.16 | 0.14 | 0.12 | 0.10 |

U-value (W/m<sup>2</sup>K)  
 Calculated in accordance with ISO 13370

### Accreditation & Approvals



### Environmental Credentials



## Overlay Board

### ScreedBoard® 20

Interlocking high conductivity overlay board

Thickness: 20mm

Board size: 600 x 1200mm

Weight: 25kg/m<sup>2</sup> / 18kg per sheet

Thermal resistance: 0.05m<sup>2</sup>k/W



### Heat Diffuser

### ULTRApate 0.5

High performance pressed aluminium diffuser plate

Plate thickness: 0.5mm

Plate length: 1000m

To suite pipe sizes: 10, 12, 14, 15, 16, 20mm



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