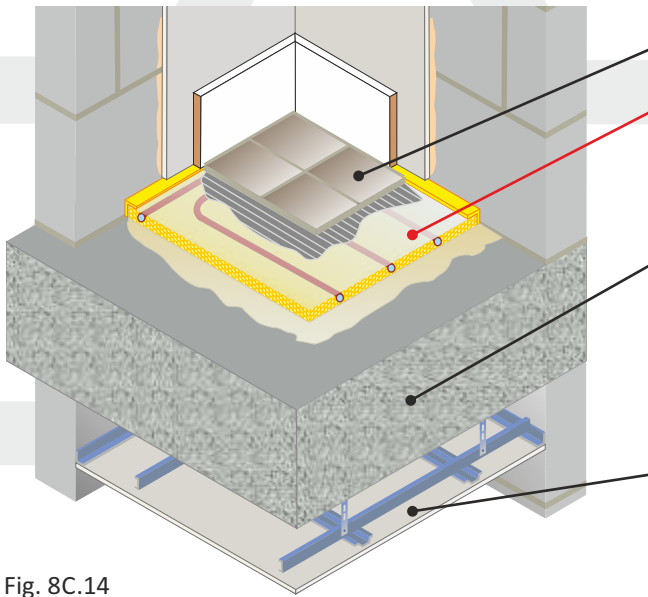


# Separating floor - In-situ concrete slab

CELLECTA XFLO Ultraboard 15/18 routed UFH insulation boards bonded to concrete floor  
 Tiles or wooden floor covering  
 Reinforced concrete frame construction



- Floor finish**
  - Ceramic, stone, porcelain etc. floor tiles
  - Laminate or engineered wood flooring
- Thermal insulation and UFH pipe carrier**
  - 15mm or 18mm **CELLECTA XFLO Ultraboard** glass reinforcement mesh faced insulation board - 500kPa (See Table 8C.14a for full details)
- Structural floor**
  - 225mm (min) in-situ concrete slab, 2400kg/m<sup>3</sup> density without screed
  - 200mm (min) in-situ concrete slab 2400kg/m<sup>3</sup> density with screed: 40mm sand & cement screed or 80kg/m<sup>2</sup> (min) proprietary screed directly applied to slab
- Ceiling**
  - See Table 8C.14b for ceiling treatment options

Fig. 8C.14



Concrete floor - In-situ concrete slab

Table 8C.14a

### Installation Options

**Thin UFH insulation board with floor tiles direct applied**

**XFLO Ultraboard 15 or 18**  
 Glass fibre mesh faced routed 500kPa extruded polystyrene  
 Dimensions: 15, 18mm x 600mm x 1200mm  
 Pipe centres: 100 or 150mm  
 Pipe bore size (OD):  
 15mm board - 10mm pipe  
 18mm board - 10 or 12mm pipe

**YELOfon ES5/60**  
 Perimeter edge strip  
 Dimensions: 5mm x 60mm x 50mm

<b>Airborne</b>	<b>Impact</b>
53dB $R_w + C_{tr}$	58dB $L_{nT,w}$

**Thin UFH insulation board with resilient layer**

**XFLO Ultraboard 15 or 18**  
 Glass fibre mesh faced routed 500kPa extruded polystyrene  
 Dimensions: 15, 18mm x 600mm x 1200mm  
 Pipe centres: 100 or 150mm  
 Pipe bore size (OD):  
 15mm board - 10mm pipe  
 18mm board - 10 or 12mm pipe

**RUBBERfon Impact 3**  
 High compressive strength resilient layer  
 Dimensions: 3mm x 1m x 12m

Additional components required when installing wooden flooring:  
 Metal diffuser plates to suit pipe diameter

<b>Airborne</b>	<b>Impact</b>	<b>Building Regulations</b>
53dB $R_w + C_{tr}$	52dB $L_{nT,w}$	≥ +8dB

Table 8C.14b

### Ceiling Treatment Options

Any metal frame ceiling system providing 100mm (min) ceiling void screws, with all joists staggered.

100mm (min)

One layer of nominal 8kg/m<sup>2</sup> gypsum-based board

**Timber battens & counter battens**

100mm (min)

One layer of nominal 8kg/m<sup>2</sup> gypsum-based board

**Timber battens & metal resilient bars**

65mm (min)

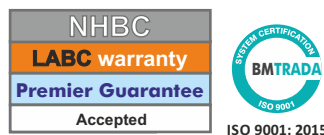
One layer of nominal 10kg/m<sup>2</sup> gypsum-based board

**Construction notes**  
 Materials must be installed in accordance with manufacturers' instructions to achieve required acoustic performance values.

## Acoustic Performance

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT).  
 Airborne performance tested in accordance with BS EN ISO 140-4:1998  
 Impact performance tested in accordance with BS EN ISO 140-7:1998

## Third Party Accreditation and Approvals



## Environmental Credentials



## Adhesives, Fixings and Fixing Tools

To ensure each treatment is install correctly and perform effectively, **CELLECTA** offers a range of specialist high quality accessories, including adhesives, levelling screeds, fixings and fixing tools.



**CELLECTA FW35** Counter Sunk Perforated Washers  
Washers Size: 35mm diameter



**CELLECTA UL80** Adhesive  
**Application:** Bonding **RUBBERfon Ultra top** & **DECKfon Ultralay** to the concrete / screeded floor structure  
**Composition:** Acrylic polymer  
**Size:** 12kg Tub  
**Typical coverage:** Up to 80m<sup>2</sup>

## XFLO® Ultraboard

Ultra Thin, High Compressive Strength Underfloor Heating Floorboards



### Product Information

**XFLO Ultraboard** is a routed under floor heating insulation board with a unique reinforcement facing that enables floor tiles to be directly adhered. The board's long term ultra high compressive strength enables it to withstand the rigours of both domestic and commercial flooring applications. Two thickness' are available to suit 10mm and 12mm diameter pipe.

### Product Benefits

- ⊖ Ultra high compressive strength - 500kPa
- ⊖ Manufactured to suit pipe and centres required
- ⊖ Glass reinforcement facing accepts tiles

### Technical Information

		<b>XFLO Ultraboard</b>
Product description	-	Ultra high compressive strength, glass reinforcement mesh faced UFH board
Strength at 10% compression EN 826	kPa	500
Thermal conductivity	W/mK	0.035
Temperature range	°C	-50/+75
Route sizes available (to suit pipe diameter)	mm	10, 12
Pipe centres	mm	100, 150
Board size	mm	600 x 1200
Thickness'	mm	15, 18

### Third Party Accreditation and Approvals



### Environmental Credentials

