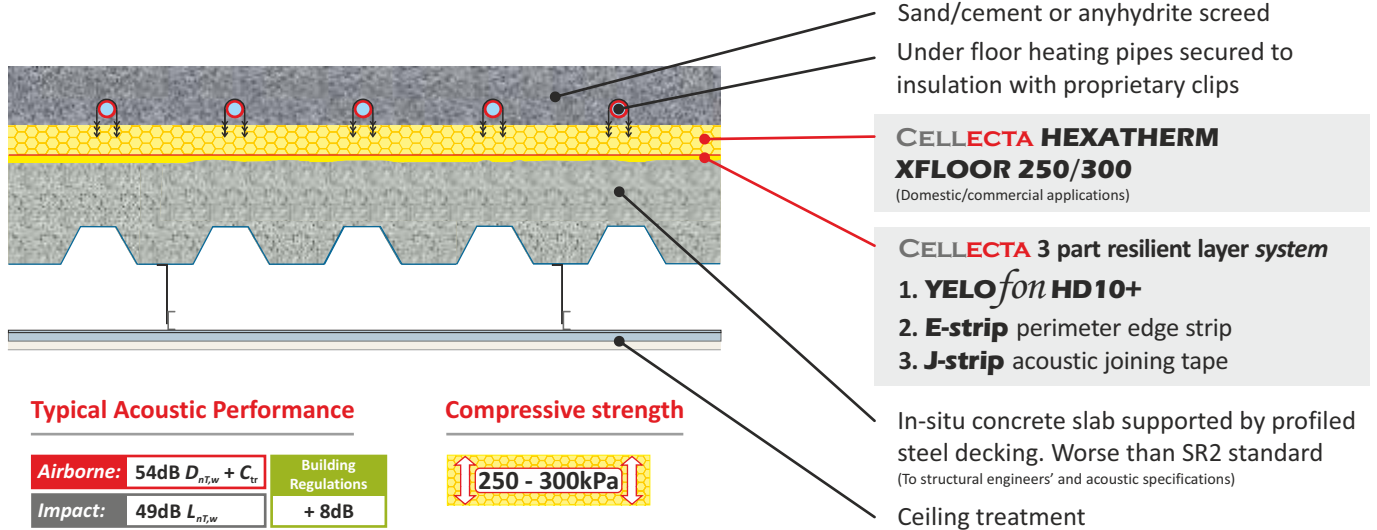


# Separating floor - Steel-concrete composite

# PCT Solution

Underfloor heating pipes clipped to **CELLECTA HEXATHERM XFLOOR** insulation  
**CELLECTA YELOfon HD10+** resilient layer *System* installed below thermal insulation  
 UFH pipes imbedded within screed

WU9.ssc1



## Typical Acoustic Performance

|                  |  |                      |
|------------------|--|----------------------|
| <b>Airborne:</b> | <b>54dB <math>D_{nT,w} + C_{tr}</math></b> | Building Regulations |
| <b>Impact:</b>   | <b>49dB <math>L_{nT,w}</math></b>          | + 8dB                |

## Compressive strength



## Insulation Board

### **XFLOOR 250/300**

**CELLECTA's XFLOOR 250/300** insulation boards have a high resistance to compression and closed cell structure that provides unrivalled resistance to water absorption, making them ideal for a multitude of domestic, commercial and educational applications.

#### Key Benefits

- Twice the compressive strength of PiR
- Excellent life-long thermal performance
- Closed cell structure
- Very low water absorption
- 100% Recyclable

#### Physical Properties

|   |      | <b>XFLOOR 250</b> | <b>XFLOOR 300</b>                             |
|---|------|-------------------|---|
| Thermal Conductivity EN 12667                           | W/mK | 0.033             | 0.033 ≤80mm<br>0.034 >81mm                    |
| Strength at 10% compression EN 826                      | kPa  | 250               | 300   |
| Strength at 2% compression EN 1606                      | kPa  | 80                | 125   |
| Long term water absorption by immersion EN 12087        | %    | >0.7              | >0.7  |
| Board size  | mm   | 600 x 2500        | 600 x 2500                                    |
| Standard thickness' (other sizes manufactured to order) | mm   | 20, 25, 30        | 40, 50, 60, 75<br>80, 100, 120, 140, 160, 180 |
| Edge profile  | -    | Square            | Square  |

## Resilient Layer

### **YELOfon® HD10+ System**

**YELOfon HD10+** is a high density closed-cell under screed resilient layer system that provided outstanding sound deadening performance on all types of concrete floors.

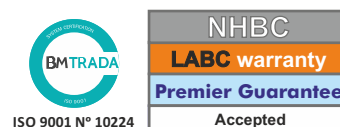
#### Key Benefits

- Superior impact sound deadening properties
- Suitable for all types of concrete floors and screeds
- Supplied as a kit with 1 x E-strip and 2 x J-strips included
- Lightweight, easy to handle, cut and install rolls
- Works in conjunction with underfloor heating systems

#### Physical Properties

|                      |      | <b>YELOfon HD10+ System</b>    |                      |                        |
|----------------------|------|--------------------------------|----------------------|------------------------|
|                      |      | <b>HD10+</b>                   | <b>E-strip</b>       | <b>J-strip</b>         |
| Product description  | -    | Surebond faced resilient layer | Perimeter edge strip | Acoustic jointing tape |
| Thickness            | mm   | 10                             | 7                    | 2.5                    |
| Roll dimensions      | -    | 1.5m x 33.33m                  | 200mm x 33m          | 75mm x 40m             |
| Thermal conductivity | W/mk | 0.045                          | 0.045                | 0.045                  |

## Accreditation & Approvals



## Environmental Credentials



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