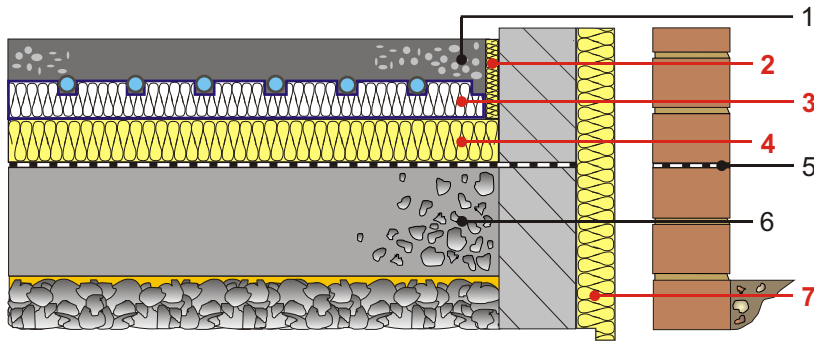


# Ground bearing concrete slab incorporating an underfloor heating system

# Thermal insulation

## Insulation below floating screed



- |  |  |
|--|--|
| 1 Screed                                     | 5 DPM  |
| 2 <b>YELOfon ES10</b> thermal edge strip     | 6 Concrete slab                                  |
| 3 <b>STIROFLOOR</b> moulded insulation board | 7 <b>XWL</b> partial fill cavity wall insulation |
| 4 <b>X2i</b> (optional extra insulation)     |  |

### PRODUCT SPECIFICATION

Pipe size (external) insulation board accepts

**STIROFLOOR F5:** 15 - 18mm

**STIROFLOOR F7.5:** 16 - 20mm

**X2i:** N/A

### Compressive strength

**F5:** 150kPa (domestic /commercial)

**F7.5:** 150kPa (domestic /commercial)

**X2i:** ≤40mm - 250kPa (domestic /commercial)  
≥50mm - 300kPa

### Thickness' available (mm)

**F5:** 45, 60 (overall)

**F7.5:** 45, 50, 60 (overall)

**X2i:** 20, 25, 30, 35, 40, 50, 60, 65, 70, 75, 80, 90, 100

### Perimeter edge strip for this application

**YELOfon ES5/10:** Thermal/acoustic edge strips

### Typical additional thickness of X2i insulation required

U-value W/m <sup>2</sup> K	Thickness of insulation (mm)										
0.18	0	40	50	60	65	70	75	80	90	100	105
0.20		40	50	60	65	70	75	80	90		
0.22	0	20	25	30	35	40	50	60			65
0.25	0	20	25	30	35	40	50	60			

(Calculated in accordance with ISO 13370)

Floors P/A ratio

Note.

Calculation based on using a 45mm thick STIROFLOOR + additional layer of X2i, with aYELOfon Es10 placed vertically around external perimeter of floor to eliminate cold bridging, and finished with a 65mm thick sand and cement.

### BENEFITS

