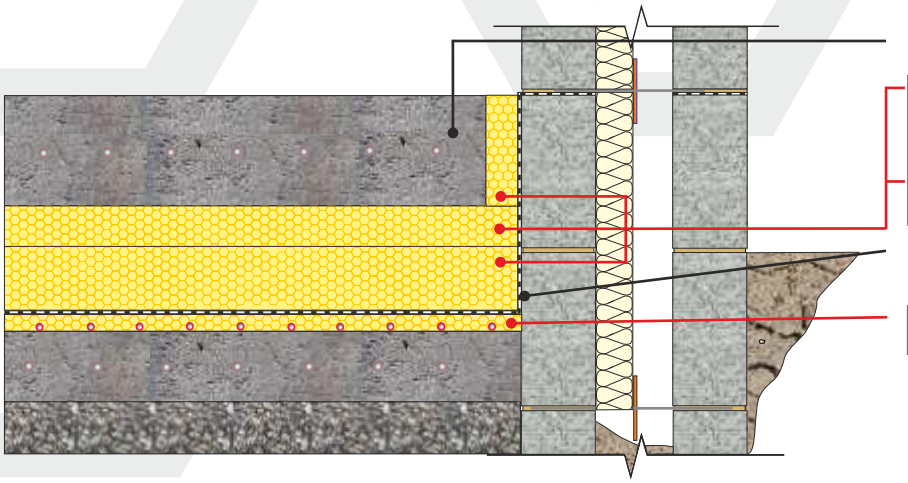
COLD STORE - LOAD BEARING GROUND FLOOR SLAB

CELLECTA®

Insulation installed below floating concrete floor slab



Concrete floor finish

HEXATHERM XFLOOR 300
(commercial applications)

HEXATHERM XFLOOR 500/700
(commercial / industrial applications)

DPM (can be placed above or below the insulation)

HEXATHERM XFLOOR 250
(25mm heater mat)

(See pages 23-25 for technical specifications)

Notes. Insulation thickness required is in addition to a 25mm **XFLOOR** heater mat incorporated into the floor to eliminate the risk of frost heave

FASTRACK CAD ARCHITECTURAL CAD DATABASES | nbsPlus | FASTRACK BIM ARCHITECTURAL BIM DATABASES

PRODUCT INFORMATION

XFLOOR

XFLOOR extruded polystyrene thermal insulation boards are designed specifically for domestic, commercial and industrial flooring applications where a high resistance to compression and water absorption is required.

PRODUCT BENEFITS

- Excellent life-long thermal performance
- High compressive strength
- Very low water absorption
- Closed cell structure

PHYSICAL PROPERTIES

	Grade 250	300	500	700
Thermal Conductivity BS EN 12667 (W/mK) ≤60mm	0.035	0.035	0.035	0.034
Thermal Conductivity BS EN 12667 (W/mK) ≥70mm	-	0.035	0.035	0.036
Compressive strength BS EN 826	250 kPa	300 kPa	500 kPa	700 kPa
Compressive strength BS EN 1606	80 kPa	125 kPa	180 kPa	250 kPa
Long term water absorption by immersion BS EN 12087	0.7%	0.7%	0.7%	0.7%
Temperature range	-50/+75 °C	-50/+75 °C	-50/+75 °C	-50/+75 °C
Board size (mm)	600 x 2500	600 x 2500	600 x 1250	600 x 1250
Thickness' (mm) (other sizes manufactured to order)	20 25 30	40 50 60 75 80 100 120 140 160	50 60 75 80 100 120	50 60 80 100 120 140 160
Edge profile	Square	Square	Shiplap	Shiplap

(A) Excluding XFLOOR 500

TYPICAL THICKNESS OF INSULATION REQUIRED

P/A ratio	HEXATHERM XFLOOR 300 (mm)							
0.7	90	110	125	150	165	150	165	150
0.6	90	110	120	140	160	140	160	140
0.5	75	100	110	130	150	130	150	130
0.4	75	90	100	120	140	120	140	120
0.3	60	75	90	110	130	110	130	110
	0.25	*0.22*	*0.20*	*0.18*	*0.16*	*0.14*	*0.12*	*0.10*

U-value (W/m^2K)

Calculated in accordance with ISO 13370

THIRD PARTY ACCREDITATION & APPROVALS

STANDARDS

EN 13164: 2012
ISO 9001 - Quality management system (QMS)
ISO 14001 - Environmental management system (EMS)

CE

ENVIRONMENTAL CREDENTIALS

<5 Global Warming Potential | 0 Ozone Depletion Potential | 100%

CODE FOR SUSTAINABLE HOMES

The following Code for Sustainable Homes credits are obtainable as a result of incorporating **HEXATHERM** into the construction detailed.

Pol 1

HEXATHERM XPS boards (A)	
GWP value	<5
Code credits	1

Note. **Pol.1** *Code* credits have an approximate weighted value of 0.7

Mat 1

Element N°	820100034
Green Guide rating	D
Code credits	1

Note. **Mat 1** *Code* credits have an approximate weighted value of 0.3