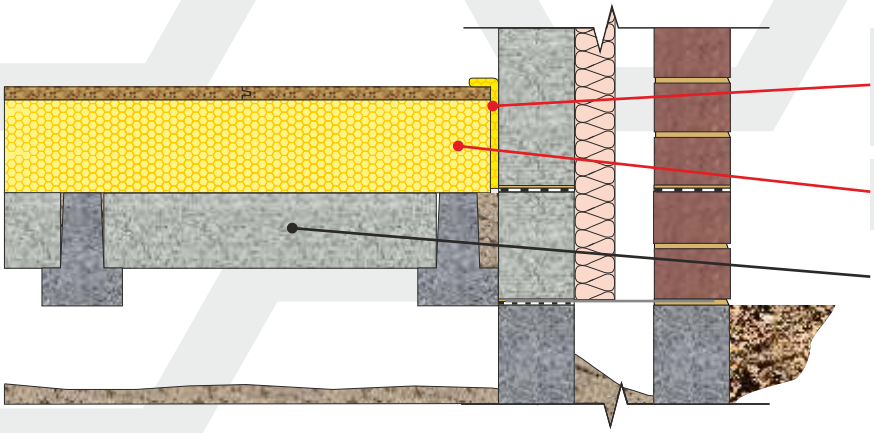
# SUSPENDED BEAM AND BLOCK GROUND FLOOR

CELLECTA

**CELLECTA HEXATHERM® XCHIP chipboard/thermal laminate floor board**
**Suspended beam and block floor**



**CELLECTA YELOfon® ES10***
(Thermal and expansion gap strip installed around floor perimeter
Thickness: 10mm
Roll size: 100mm, 120mm or 150mm high x 50m long )

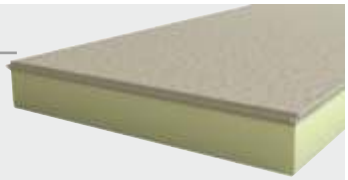
**CELLECTA HEXATHERM® XCHiP**
(Thermal laminate)

Beam and block flooring
(To structural engineers' specification)

**Note**: Calculation based on aircrete blocks with a thermal conductivity of 0.19W/mk

FASTRACK CAD ARCHITECTURAL CAD DATABASES | NBS Plus | FASTRACK BIM ARCHITECTURAL BIM DATABASES

## Product Information



XCHiP

CELLECTA **XCHiP** combines the benefits of a **HEXATHERM** high performance thermal insulation with a tongue and groove moisture resistant chipboard to produce a high compressive strength, interlocking floor board.

## Product Benefits

- Excellent life-long thermal performance
- High compressive strength
- Interlocking, moisture resistant chipboard facing
- Quick to install

## Physical Properties (Insulation)

| | XCHiP |
|---|---|
| Thermal Conductivity EN 12667 (W/mK) ≤80mm | 0.033 |
| ≥81mm | 0.034 |
| Strength at 10% compression EN 826 (kPa) ≤30mm | 250 |
| ≥40mm | 300 |
| Strength at 2% compression EN 1606 (kPa) ≤30mm | 80 |
| ≥40mm | 125 |
| Long term water absorption by immersion EN 12087 | 0.7% |
| Temperature range | -50/+75 °C |
| Board size (mm) | 600 x 2400 |
| Overall thickness' including 18mm P5 chipboard facing (mm) (other sizes manufactured to order) | 38 43<br>48 58<br>68 78<br>93 98<br>118 138<br>138 178 |
| Edge profile | T&G |

*Not applicable under Q-mark Certification

## Typical Thickness of Insulation Required

| P/A ratio | HEXATHERM® XCHiP (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *0.7* | 75 | 100 | 110 | 130 | 150 | 180 | 215 | 270 |
| *0.6* | 75 | 100 | 110 | 130 | 150 | 180 | 210 | 270 |
| *0.5* | 75 | 90 | 100 | 120 | 140 | 170 | 220 | 250 |
| *0.4* | 60 | 80 | 100 | 110 | 130 | 160 | 200 | 250 |
| *0.3* | 60 | 75 | 90 | 100 | 130 | 160 | 200 | 240 |
| | *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 and Approvals

Building Insulation Products 0107 — BM TRADA Q-MARK CERTIFICATION

BM TRADA SYSTEM CERTIFICATION ISO 9001 — N° 10224

ISO 14001: 2004 BUREAU VERITAS Certification — BE 009119-1

NHBC Accepted

LABC warranty Accepted

premier guarantee Accepted

## Environmental Credentials

<5 Global Warming Potential

100% Recyclable

0 Ozone Depletion Potential

## 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 |
|---|---|
| GWP value | <5 |
| Code credits | 1 |

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

**Mat 1**

| | |
|---|---|
| Element N° | 820140019 |
| Green Guide rating | A+ |
| Code credits | 3 |

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