INVERTED FLAT ROOF

CELLECTA

Insulation ballasted with planting layer
Insulation with integral drainage channels
0° Falls

Gr1

- Planting layer
- Geotextile filter layer
- Gravel filter layer
- **CELLECTA HEXATHERM® XDRAiN**
  (inverted roof insulation with integral drainage channels)
- Root barrier
- Waterproof membrane
- Structural roof deck
  (To structural engineer's specification)

XDRAIN's unique pattern of drainage channels sheds water off the roof whatever the boards' orientation
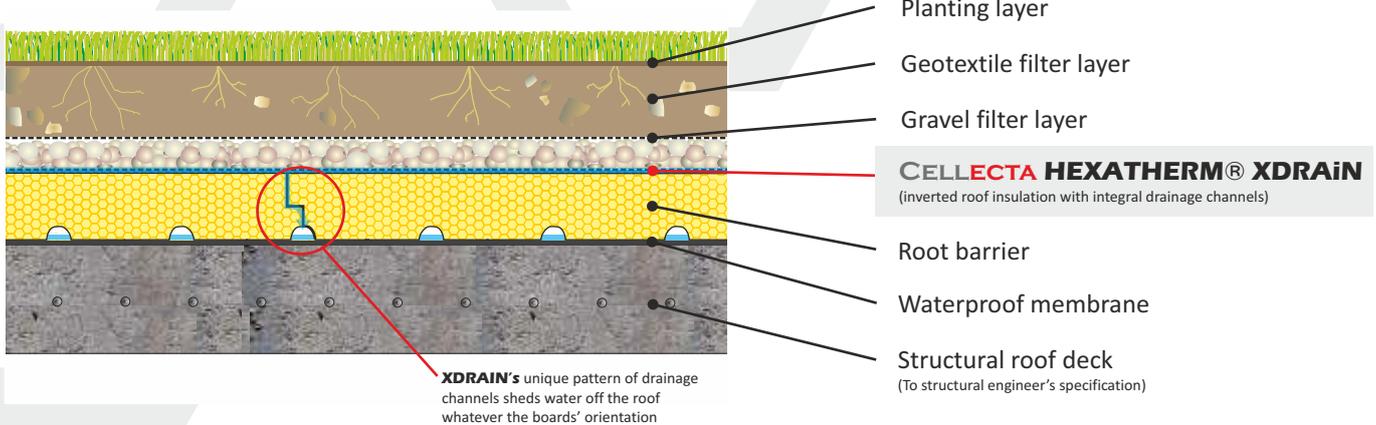
FASTRACKCAD ARCHITECTURAL CAD DATABASES **NBSPlus** **FASTRACKBIM** ARCHITECTURAL BIM DATABASES

Product Information

XDRAiN

XDRAiN extruded polystyrene inverted roofboards have with a unique patten of drainage channels on their underside specifically which speeds up the shedding of rainwater, elimination the need for a separation drainage mat, making them ideal for green roofs.

Product Benefits

- Excellent life-long thermal performance
- Integral drainage channels
- Very low water absorption
- High compressive strength

Physical Properties

		XDRAIN	XROOF 300L
Thermal Conductivity BS EN 12667 (W/mK)	≤80mm ≥81mm	0.033 0.034	0.033 0.034
Compressive strength BS EN 826		300 kPa	300 kPa
Compressive strength BS EN 1606		125 kPa	125 kPa
Long term water absorption by immersion BS EN 12087		0.7%	0.7%
Temperature range		-50/+75 °C	-50/+75 °C
Board size (mm)		600 x 1250	600 x 1250
Thickness' (mm) (other sizes manufactured to order)		50 60 75 80 100 120 140 160	50 60 75 80 100 120 140 160
Edge profile		Shiplap	Shiplap

Typical Thickness of Insulation Required

	Thickness of insulation required for a 200mm concrete deck				
HEXATHERM® XDRAiN(A)	160	190*	210*	240	290
	0.25	0.22	0.20	0.18	0.16

U-value (W/m²K)
Calculated in accordance with ISO 6946: 1997

Notes.
Thickness calculated in accordance with EN ISO 6946 & ETAG 301-2010
(A) Based on 0.02 *fx*, 1.7mm/day average rainfall
*Additional layer of **XROOF 300** required

Third Party Accreditation and Approvals

Building Insulation Products 0107 — **Q-MARK CERTIFICATION BM TRADA**

SYSTEM CERTIFICATION BM TRADA ISO 9001 — **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(1)

GWP value	<5
Code credits	1

Mat 1

Element N°	812530050
Green Guide rating	C
Code credits	0.5

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

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

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