
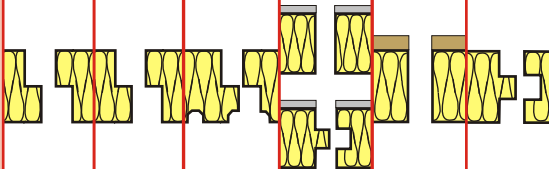


Physical Properties - Flat Roof and Car Park Deck Insulation

Collecta's insulation products are manufactured to the highest possible specification. All products' physical properties are determined under strictly controlled laboratory conditions in accordance with European Standards.

Properties ⁽¹⁾	Standard	Unit	X3L	X4L	XDRAIN	XMD ⁽³⁾	XPLY ⁽⁴⁾	X2D
Thermal conductivity	BS EN 12667: 2001	W/mK	0.029	≤60mm 0.030 70-80mm 0.032 ≤90mm 0.033	0.029	0.029	0.029	0.029
Compressive strength ⁽²⁾	BS EN 826	kPa	350	480	350	300	300	≤40mm 250 ≥50mm 300
Grade	BS EN 826	–	CS300	CS400	CS300	CS300	CS300	CS250 CS300
Long-term water absorption by immersion	BS EN 12087	% Volume	<0.5%	<0.5%	<0.7%	<0.5%	<0.5%	<0.5%
Water vapour diffusion factor	BS EN 12086			100-200	100-200	100-200	100-200	100-200
Capillarity	–	–	None	None	None	None	None	None
Density	BS EN 1602	kg/m ³	34	40	34	34	30	30
Temperature range	–	°C		-50/+75	-50/+75	-50/+75	-50/+75	-50/+75
Surface finish	–	–	Skin	Skin	Drainage channels Skin	Reinforced high impact cementitious board Skin	12mm Plywood Skin	Skin Skin
 Accepted	Size: Width	mm	600	600	600	600/1200 or cut to size	1200	600
	Length	mm	1250	1250	1250	2440	2400	2500
	Standard thickness ¹	mm	50, 60, 70, 75, 80, 90, 100, 120,	50, 60, 70, 75, 80, 90, 100, 120,	50, 60, 70, 75, 80, 90, 100, 120,	6+ 50, 60, 65 70, 75, 80, 90, 100, 120	12+ 50, 60, 70, 75, 80, 90, 100, 120	30, 40, 50, 60, 75, 80, 90, 100, 120
	Edge profile	-	Shiplap	Shiplap	Shiplap	Square or T & G	Square	T & G
	Edge detail	-						

(1) Physical properties of extruded polystyrene core
 (2) Minimum value at 10% compression
 (3) Faced with a 6mm class O high impact reinforced cement building board) with a thermal conductivity of 0.41W/mK.
 (4) Faced with a 12mm Far Eastern grade plywood with a thermal conductivity of 0.14W/mK.

YELOTEX Thermal Improvement Membrane

Property	Standard	Unit	YELOTEX
Water vapour resistance	BS 3177: 1959	MNs/g	0.24
Tear resistance	BS 3137: 1987	kN/m ²	870
Length of UV stability	-	-	Up to 5 months exposed
Temperature range	-	°C	-75 / +130
Weight	-	g/m ²	59
Roll size (width / length)	-	m	1.5 x 50

¹⁾ Only suitable for flat roofs laid to falls (1:60 - 1:80)

All *Collecta's* extruded polystyrenes have excellent properties which will last the life of the building:

- Excellent thermal performance
- CFC & HCFC free
- Zero ODP
- High compressive strength
- Very low water absorption
- Closed-cell structure

