

Comparison of Multi-Foils

PROPERTIES	TEST METHOD	SUPER QUILT	TLX (THINSULEX)	R1.9	GEN-X	AIRFLEX	SF19
Manufacturer		YBS Insulation	Web Dynamics	Kontrol	Euroform	KDB	Boulder Developments
Composition		NC Aluminium Foil PE PET Wadding Metallised PP Expanded PE	Metallised Film on non-woven PP PET Wadding Metallised PE	Metallised Film on Polymer fabric PET Wadding Metallised PE	Metallised Film on Polymer fabric PET Wadding Metallised PE	Aluminium Foil Bubble Polyethylene Foam Aluminium Foil Bubble	Metallised woven PE Aluminium Mylar coated- reflective layers PET Wadding Expanded PE
Structure		19 Layers	11 Layers	7 Layers	7 Layers	3 Layers	19 Layers
Weight		800 g/m ²	700 g/m ²	867 g/m ²	867 g/m ²	No Reference	No Reference *
Thickness	EN 822	40 mm	30 mm	33 mm	33 mm	10.4 mm	38mm
Width	EN 822	1500 mm	1200 mm	1200 mm	1200 mm	1200 mm	1500 mm
Length	EN 822	10 m	10 m	12.5 m	12.5 m	12.5 m, 25 m	12.5 m
Yield		15 m ²	12 m ²	15 m ²	15 m ²	15 m ² , 30m ²	18.75 m ²
Colour		Silver Foil / White	Silver / Black	Silver / White	Silver / White	Silver / Green	Silver / White
Thermal Resistance of product and air layers.		2.71 m ² K/W EN 12667	1.69 m ² K/W BS EN ISO 8990 : 1996	1.9 m ² K/W ISO 15099 : 2003	1.9 m ² K/W ISO 15099 : 2003	1.09 m ² K/W	2.218 m ² K/W
Emissivity of Outer Layers		0.05	0.16	0.17	0.17	0.10	No Reference *
Tensile Strength Parallel to faces	EN 1608	142 kPa	No Reference	No Reference	No Reference	No Reference	No Reference *
Resistance to tearing	BS EN 1310-1	N/A	No Reference	300-450N	No Reference	No Reference	No Reference *
Flammability	BS EN ISO 11925-2	Class E	N/A	Class E	Class E	No Reference	No Reference *
Surface Spread of Flame	BS 476-7	Class 1	No Reference	No Reference	No Reference	No Reference	No Reference *
Air Leakage	BS EN 12114 : 2000 with positive pressure of 50 Pa and 100 Pa	N/A	0.19 m ³ h ⁻¹ m ⁻² Practically zero respectively	0.1 m ³ h ⁻¹ m ⁻² 0.4 m ³ h ⁻¹ m ⁻²	0.1 m ³ h ⁻¹ m ⁻² 0.4 m ³ h ⁻¹ m ⁻²	0.6 m ³ h ⁻¹ m ⁻²	No Reference *
Water vapour resistance	EN ISO 12572	1569 MNs/g	1200 MNs/g ⁻¹	6000 MNs/g ⁻¹	6000 MNs/g ⁻¹	3000 MNs/g ⁻¹	No Reference *
UV Exposure		3 Months	No Reference	No Reference	No Reference	No Reference	No Reference *
Life Expectancy		To that of the roof structure	To that of the roof structure	To that of the roof structure	To that of the roof structure	To that of the roof structure	No Reference *
Timber Treatment Compatible		Yes	No Reference	No Reference	No Reference	No Reference	No Reference *
Market Launch		2004	2006	2007	2008	2008	2006

* No Reference Due To
Non-translated Chinese
Testing/Certification.