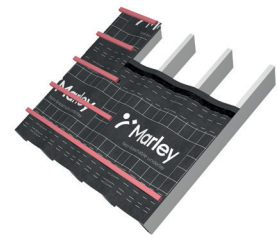
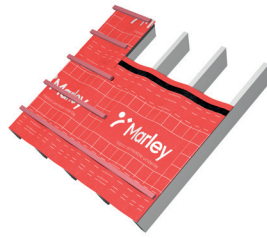




# Universal underlays



PROPERTY	VAPOUR PERMEABLE UNDERLAY	NON-BREATHABLE UNDERLAY
Material	PP 3 layers	PP 3 layers
Weight	170 (+10-10)	116 (-10+10)
Colour	Red	Black
Resistance to water penetration	W1	W1
Batten gauge	< 250 (Zone 1-5) < 354 (Zone 1-5)	< 250 (Zone 1-5) < 354 (Zone 1-5)
Adhesive tapes	1	1
Tests	CE, BBA, IBA approved	CE, BBA, IBA approved
Tensile strength (N/50mm)		
Before artificial ageing	MD 400 (-80) CMD 260 (-50)	MD 280 (-70) CMD 170 (-50)
After artificial ageing	MD $\geq$ 50% CMD $\geq$ 50%	MD 240 (-70) CMD 140 (-50)
Elongation (%)		
Before artificial ageing	MD 80 (-20)% CMD 100 (-22)%	MD 60 (-20)% CMD 70 (-20)%
After artificial ageing	MD $\geq$ 50% CMD $\geq$ 50%	MD 40 (-20)% CMD 50 (-20)%
Tear resistance	MD 190 (-50) CMD 190 (-60)	MD 140 (-40) CMD 130 (-40)
Flexibility at low temperature	-60°C	-40°C
Equivalent air layer thickness (Sd)	0,029 (+/-0,01)	15
Reaction to fire	Class E*	Class E

\*When tested to EN11925-2