

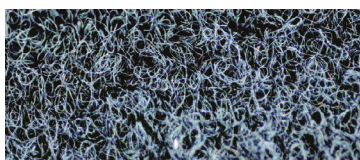
Product Data Sheet

BANDFIX® Solar PV Fastening System

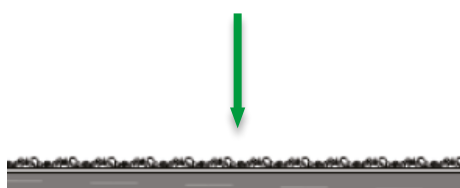
Lightweight non-penetrative fastening system for use with Axter SOLAR PV_{FLEX} copper indium gallium selenide (CIGS) photovoltaic modules on to ECOFLEX® / ECOLINE® single-ply, synthetic PVC-p waterproofing membranes.

BandFix® comprises a VELCRO® loop tape which is factory bonded to the surface of a 10cm wide strip of Axter's ECO R single ply, polyester reinforced PVC waterproofing membrane. BandFix® does not require any mechanical fasteners or washers and does not penetrate the roof waterproofing, ensuring the waterproofing system remains watertight during and post installation of the Solar PV_{FLEX} system.

VELCRO loop



ECO R single ply PVC strip



Advantages

- Fast simple installation
- No mechanical fasteners required
- Preserves the integrity of the waterproofing during and post installation
- Weathering and UV resistance
- High strength and mechanical resistance
- Superior weld characteristics
- Zero flame – hot air welded installation
- 35 year manufacturer service life
- 20 year insured guarantee covering materials, design, workmanship and insolvency

Installation

- Clean the surface of the single ply (PVC) synthetic waterproofing on to which the BandFix® will be welded with a PVC cleaner.
- Unroll the BandFix® and fully bond this to the PVC waterproofing substrate using hot air welding equipment at a temperature of 380 to 420 degrees. Note weld temperatures will vary dependent upon ambient conditions and destructive test welds must be taken prior to installation.
- BandFix® must be installed without overlaps.
- Once installed, probe test the laps to ensure a secure weld (minimum 30mm) has been achieved between the BandFix® and the field membrane.
- Once BandFix® is installed, revive the loop with your hand (gloves must be worn) or stiff hand brush. Refer to Axter installation guidance document for more detailed installation instructions.

Technical Properties

LOOP

TEST DESCRIPTION	UNIT	NOMINAL VALUE	TOLERANCES
Width	mm	100	Average value
Length	m	10.00	-1%
Thickness	mm	2.35	±0.25
Weight	gm/lm	30	±10%

ECO R PVC MEMBRANE

TEST DESCRIPTION	STANDARD (BS)	UNIT	NOMINAL VALUE
Thickness	EN 1849-2	mm	1.5
Mass per unit area	EN 1849-2	kg/m ²	1.8
Watertightness	EN 1928 (B)	Pass	

TEST DESCRIPTION	STANDARD (BS)	UNIT	NOMINAL VALUE
Tensile strength to break	EN 12311-2 (A)	N/5cm	≥1100
Elongation to break	EN 12311-2 (A)	%	≥15
Resistance to impact	EN 12691 (A)	mm	≥800
Static puncture resistance	EN 12730	kg	≥20
Tear resistance	EN12310-2	N	≥200
Joint peel resistance	EN12316-2	N/50mm	≥200
Joint shear resistance	EN12317-2	N/50mm	≥600
Foldability at low temperatures	EN 495-5	°C	≤ -25
Root resistance	EN 13948	Pass	
Dimension stability	EN 1107-2	%	≤ 0.5
Water vapour transmission properties	EN 1931	μ	20,000
Artificial ageing by long-term exposure to the combination of UV radiation, elevated temperature and water	EN 1297	Visual (1000h)	Pass

Quality Assurance

BandFix® should be installed in accordance with project specific design layouts and Axter Ltd installation guidelines by trained Axtershield Installers to ensure compliance with Axter system guarantee criteria.

BandFix® installations must be inspected and certified by Axter Quality Assurance Managers prior to installation of photovoltaic modules and system commissioning to ensure system guarantee compliance.

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