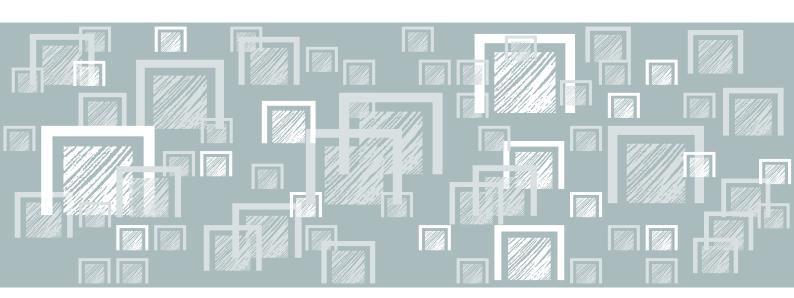




ECOFLEXSINGLE-PLY ROOFING







AXTER

Axter is part of the Bouygues Group of Companies and is one of the world's leading designers and manufacturers of roofing and waterproofing membranes. With over 100 years of experience, Axter specialises in the production of high quality, robust, fully integrated membranes for extensive use in both new build and renovation projects.

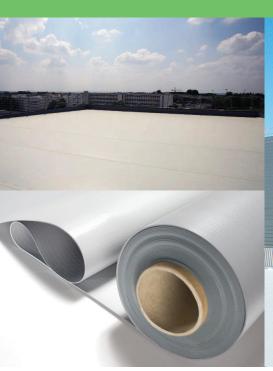
Axter's comprehensive product portfolio includes over 700 different systems which have been engineered to provide unparalleled performance and design flexibility. Through our global network of dedicated representatives and our relentless commitment to research and development, Axter ensures its systems are successfully supplied and installed in more than 60 countries worldwide.

It is Axter's proud tradition in the design and manufacture of high performance waterproofing systems that has facilitated the development of the ECOFLEX PVC-p (polyvinyl chloride) next generation synthetic membrane system range.

ECOFLEX

Engineered to provide unrivalled environmental performance, ECOFLEX is a lightweight, flexible PVC-p single-ply synthetic membrane that has been specifically designed for widespread use on all roofing projects including domestic, commercial and industrial structures. ECOFLEX provide excellent performance systems characteristics such as strength and flexibility and are fully reinforced and available with or without a fleece back (ADH material); this determines the product application. The ECOFLEX system is complemented with a full range of vapour control layers and accessories that ensure a total design and installed solution is achieved.

ECOFLEX systems deliver specifier and installer confidence in both performance and design freedom. The waterproofing membranes can be installed either mechanically fixed (FM) or adhered (ADH) as part of a warm roof installation. ECOFLEX single-ply systems provide unquestionable quality and long term value for money and are the system of choice for specifiers worldwide





Environmental Responsibilities

Axter takes its environmental responsibilities extremely seriously and is committed to the reduction of its carbon footprint, energy consumption and waste throughout all its operational procedures. As part of the Bouygues Group of Companies, Axter has adopted the United Nations Global Compact including a formal pledge to uphold environmental protection. Bouygues and its subsidiaries take a proactive sustainable development approach across all areas of activity and are focused upon targeted advancement in:

- Waste recycling
- Life cycle performance
- Hazardous material use
- Reduced energy consumption
- Minimum packaging
- Reduced raw material consumption

ECOFLEX and the Environment

PVC-p single-ply synthetic membrane waterproofing systems protect the building from

the severe effects of exposure to the elements, conserving the economic value of the property and increasing its serviceable life. One of the principal environmental benefits associated with PVC is its versatility and its ability to re-use waste material generated during the manufacturing process. This reduces Axter's consumption of raw materials and our dependence on landfill.

Contrary to most plastics PVC is not 100% produced from fossil fuels as its constituent parts are chlorine, carbon and hydrogen in variable concentration. The principal constituent, chlorine, accounts for approximately 60% of the material and is derived from common salt that is a sustainable raw material with unlimited world supply. Approximately 40% of the raw material is derived from other resources and advanced manufacturing techniques have ensured that ECOFLEX membranes have a proportion of recycled content.

BRE Green Guide to Specification

The BRE Green Guide to Specification is part of BREEAM (BRE Environmental Assessment

Method), an accredited environmental rating scheme for buildings and their elemental construction.

The ratings are based on Life Cycle assessments using BRE's Environmental Profiles Methodology 2008 and enable designers to compare and select appropriate materials as they compile their specifications. Under this assessment method the complete specification (supporting structure, thermal insulation and waterproofing elements) is evaluated under environmental criteria such as impact of manufacture, recycling potential, implementation within the building, maintenance and end of life disposal.

A typical ECOFLEX synthetic membrane roofing system will achieve a BRE Green Guide rating of A+ (BRE Green Guide to Specification 2008). Green Guide ratings will vary according to individual specification and although Axter can give advice on the elemental value of a construction, a BRE assessor should be employed to ascertain project specific BRE Green Guide ratings.

ECOFLEX Product Range – Membranes

ECOFLEX FM – Polyester reinforced PVC-p membrane

Thickness	1.5 mm	1.8mm*
Roll size	1.05 x 20m and 2.10 x 20m	
Installation method	Mechanically fixed or fully bonded with	Axter FM/D contact adhesive

ECOFLEX ADH – Polyester reinforced (fleece backed) PVC-p membrane

Thickness	1.5 mm	1.8mm*
Roll size	1.6m x 20m	
Installation method	Fully bonded with Axter ADH solvent f	ree membrane adhesive

ECO/R - Polyester reinforced PVC cover strip

Thickness	1.5mm
Roll size	0.2 x 20m
Installation method	Fully bonded using standard welding techniques

ECO/D - Non-reinforced PVC-p membrane used to form on site details

Thickness	1.5mm
Roll size	0.32m x 20m
Installation method	Fully bonded using standard welding techniques

E/STEP – Non-slip walkway membrane for designated access routes

Thickness	14mm
Roll size	10m x 0.6m
Colour	Grey
Installation method	Loose laid spot welding may be required in exposed high wind locations

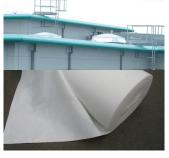
VAPOUR CONTROL LAYERS - Self-adhesive / heat bonded to suit substrate deck

Roll size 1.08m x 50m VAP-AL / VAP-AL SK aluminium cored bituminous membrane for use on primed concrete decks (SK self adhesive for use on plywood and metal decks)	VAP-IND polymeric foil self adhesive membrane for use on plywood and metal decks	
	Roll size	1.08m x 50m
Roll size 8m x 1m	Roll size	8m x 1m

SEPARATION MEMBRANES – Polyester separation membrane

Eco/125*	2.2m x 75m roll
Eco/200	2m x 100m roll
Eco/300*	2.2m x 75m roll
Installation method	Loose laid

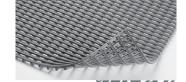














ECOFLEX Product Range – Accessories

E/CORNERS – Pre-fabricated internal and external corners

Thickness	1.5mm
Packaging	20 units/box
Attachment method	Fully bonded using standard welding techniques

E/METAL – Pre-fabricated PVC coated metal

Sheet size	1m x 2m
Attachment method	Mechanically fixed with Ecoflex fixings

RESTRAINT BAR & PVC CORD – Galvanised pre-drilled restraint bar & PVC cord for securing membranes

Bar Length	20mm x 1.95m
Attachment method	Mechanically fixed with Ecoflex fixings
Cord packaging	4mm cord, 200lm/roll
Attachment method	Fully bonded using standard welding techniques with cord nozzle

E/PROFILE - Moulded PVC standing seam profile

Length	4m
Attachment method	Fully bonded using standard welding techniques

MTP/C FIXINGS - High performance membrane fixings for all substrate decks

5.8mm diameter for metal timber, plywood and OSB decks	
Length 300mm maximum	
6.1mm diameter for concrete decks	
Length 300mm maximum	
Ecoflex Tubular washers to suit system depth and fixing type	

FM/D CONTACT ADHESIVE – For bonding FM and ECO/D membranes

Packaging	5litre and 20litre drum
Coverage	10m²/litre

ADH ADHESIVE – For bonding ADH (Fleece backed) membranes

Packaging	22kg drum
Coverage	5m²/kg

RAINWATER OUTLET – Ecoflex compatible outlet range

	Available outlet diameter	40mm - 160mm
	Attachment	Mechanically fixed and fully bonded using standard welding techniques
Outlet compatible leaf guards with adjustable clamp to suit pipe diameter		stable clamp to suit pipe diameter

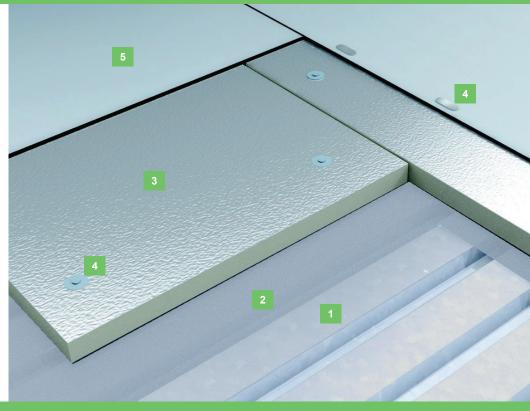
PARAPET OUTLET – Ecoflex compatible parapet outlet range

Available outlet diameter	50mm, 75mm & 110mm
Attachment	Mechanically fixed and fully bonded using standard welding techniques
Outlet compatible leaf guards with adjustable clamp to suit pipe diameter	



ECOFLEX FM (Polyester reinforced) mechanically fixed warm roof system

- 1 Metal deck (primed)
- 2 VAP IND vapour control layer
- 3 HYTHERM FM Insulation
- 4 MTP & I Fixings and washers
- 5 ECOFLEX FM membrane



Quality

Axter has been manufacturing high quality waterproofing membranes for over 30 years and specialises in protecting buildings and the environment from the severe effects of the weather. Axter's manufacturing sites are amongst the most technologically advanced in Europe and are independently assessed by AFAQ and quality assured to ISO 9001: 2008 and ISO 14001: 2004. All Axter ECOFLEX membranes are CE marked and carry BBA certification: Agrément Certificate No. 12/4947.

Benefits

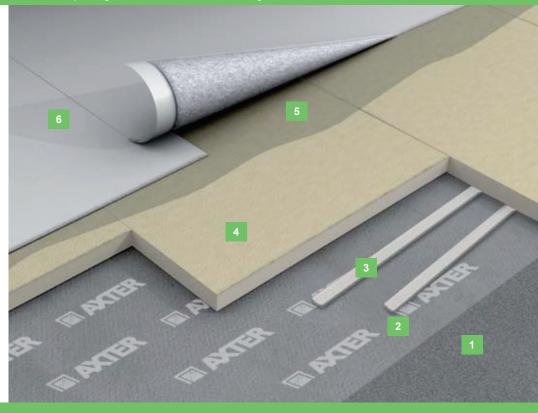
PVC waterproofing membranes have been in use for more than three decades and are a proven, reliable solution for the majority of flat and low slope roofs. ECOFLEX PVC-p membranes combine a select mix of polymer

compounds that encapsulate a polyester or glass mesh reinforcement in two layers resulting in the following benefits:

- Recycled polymers
- Weathering and UV resistance
- Design flexibility
- · High strength and mechanical resistance
- Low temperature flexibility
- · Cost-effective solutions
- Vapour permeability
- Superior weld characteristics
- · Quick installation and detailing
- Zero flame hot air welded installation
- Wide range of aesthetic choices
- CE marked
- British Standard (BS EN 13956:2012) compliant

ECOFLEX ADH (Fleece backed membrane) fully bonded warm roof system

- 1 Concrete deck (primed)
- 2 VAP AL vapour control layer
- 3 HYRA-STIK PU adhesive
- 4 HYTHERM ADH Insulation
- 5 ADH adhesive (solvent free)
- 6 ECOFLEX ADH membrane



ECOFLEX Installation

ECOFLEX single-ply synthetic membrane systems must be installed by competent roofing contractors that have successfully completed the ECOFLEX system training syllabus. All ECOFLEX trained operatives will be issued with photographic identification that must be carried at all times as proof of competence and failure to do so will result in permit to work refusal. ECOFLEX trained operatives must complete training refresher courses every three years or upon instruction by Axter to maintain their competency in the system.

In addition to manufacturer training, ECOFLEX systems should be installed by accredited roofing professionals trained to at least NVQ (England, Wales & Northern Ireland) SVQ (Scotland) Level 2 (Applied Waterproof Membranes – Single-Ply

Roofing) and all supervisors having achieved Level 3.

Axter recommends that all ECOFLEX operatives are Construction Skills Certification Scheme (CSCS) registered and should carry a valid registration card.

ECOFLEX System Guarantees

Upon satisfactory completion of the works by the appointed Axtershield Installer, Axter will provide a comprehensive insurance backed system guarantee for all products manufactured and supplied by Axter through the Bronzeshield material guarantee scheme. To give further long term reassurance to our clients Axter Goldshield and Platinum enhanced guarantees can be provided, covering materials, workmanship, design and Axtershield Installer insolvency.

ECOFLEX 1.5mm	20 year Guarantee
ECOFLEX 1.8mm	25 year Guarantee

Service

Axter has built its reputation on providing quality solutions for all roofing and waterproofing applications. To assist clients, Axter's technical specification team provides a comprehensive support service including bespoke system specifications, project specific detail drawings with full design liability, wind uplift calculation in accordance with BS EN 1991-1-4:2005 + Amendment1:2010 Eurocode 1, U-value and condensation risk analysis, rainwater/drainage calculations and tapered insulation design, all to ensure our systems perform to the highest standards and comply with the latest building regulations and codes of practice.

Site Inspection

Axter's Quality Management team will inspect, survey and monitor all projects throughout the installation process to ensure that customer expectations and Axter stringent guarantee requirements are achieved.

Technical Consultation

Axter recommends early consultation with our technical specification team to ensure projects are delivered on time, on budget and to the satisfaction of all parties. Regardless of project value, size or classification Axter, through a considered design and consultation process, will strive to deliver project efficiencies and eliminate potential system interface defect at every opportunity. It is through active encouragement and development of supply chain and partnering philosophies that Axter endeavours to improve communication and project delivery results within the construction and roofing industry.

Full system information is also available at www.axter.co.uk.















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