

StrataPlan SF

Reinforced roofing membrane for mechanically fixed applications

Product overview

StrataPlan SF is a high performance, polyester-mesh reinforced PVC-P roof waterproofing membrane, designed for use as a mechanically fixed waterproofing covering. The product is accredited with the environmental standard ISO 14001 and is manufactured to DIN 16726 & DIN 16734.

Typical use

StrataPlan SF can be fixed onto most common substrates and is ideal for use in a variety of roofing applications. The product is well suited to both flat and sloping roofs and is suitable for both new build and refurbishment projects.

Features & benefits

- Durable with life expectancy in excess of 30 years
- Manufactured under ISO 14001 Environmental Management accreditation
- Made from recyclable PVC
- Good UV resistance
- Attractive finish
- High quality, fibre-reinforced plasticised polyvinyl chloride (PVC-P) roofing membrane
- Excellent low temperature flexibility at -25°C
- Individually wrapped rolls

Substrate preparation

In order to achieve a sufficient bond, the substrate should be dry, free of oil, fat and dust and other impurities.

Application guidelines

StrataPlan SF should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice.

StrataPlan SF is mechanically fixed using fixing discs with hot air welded lap joints. The membrane comprises upper, middle and lower layers manufactured by a calender-mould process. These layers are thermoplastically fused together, sandwiching the polyester mesh between them.

Please consult the StrataPlan PVC Waterproofing Systems Installation Guide for further guidance.

Standard characteristics

Properties (test method)	Declared Performance
Colour	Dark Grey
Length	20m
Width	1,025mm
Thickness	1.5mm
Area per roll	20.5m ²
Weight per roll	30.75 / 41.0 kg
Weight per unit area	1.5 / 2.0 kg/m ²
Rolls per pallet	21

Technical characteristics

Properties (test method)	Declared Performance
Visible defects (EN 1850-2)	Complies
Straightness (EN 1848-2)	≤ 50mm
Flatness (EN 1848-2)	≤ 10mm
Water tightness to liquid state, 10 Kpa* (EN 1928 Method B)	Complies
Reaction to fire (EN 13501-1)	Class E
Characteristics of roof exposed to external fire (ENV 1187)	B _{ROOF} (t4)
Joint peel resistance (EN 12316-2)	≥ 260N/50mm
Joint shear resistance (EN 12317-2)	≥ 1,000N/50mm
Tensile strength (EN 12311-2 Meth A)	≥ 1,000N/50mm
Elong. at break (EN 12311-2 Meth A)	≥ 18%
Impact resistance (EN 12691 Meth A)	Complies 1,250mm
Impact resistance (EN 12691 Meth B)	Complies 2,000mm
Resistance to static load (EN 12730 Method B)	Complies 20kg
Tear resistance (EN 12310-2)	≥ 200N
Dimensional stability (EN 1107-2)	Max ± 0.3%
Foldability at low temp (EN 495-5)	≤ -25°C
Exposure to UV radiation, high temperature and water (EN 1297)	Complies, Grade 0
Water vapour properties (EN 1931)	50,000 ± 4,500
Membrane working temperature	-30°C to +80°C
Resistance to sparks & radiant heat	Up to +80°C
Resistance to root penetration (EN 13948, FLL Test)	Complies

*The sample also complies at a pressure of 60kPa

Packing, Transportation & Storage

StrataPlan SF is delivered to site in polyethylene-wrapped rolls, each clearly labelled with product and manufacturer details. The product must be kept covered during transportation and stored in its original sealed packaging. The recommended storage temperature is from -5°C to +30°C. The rolls should be stored horizontally on a clean, dry & level surface and kept under cover until required.

Health and safety

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations.

StrataPlan SF does not constitute a hazard under the COSHH Regulations under normal conditions of use. A material safety datasheet is available for this product upon request.

Environmental considerations

StrataPlan SF can be disposed of in accordance with local regulations. The clean waste material can be recycled. Any contaminated waste must be disposed of in accordance with local regulations.

Further information

The information contained in this datasheet, along with any advice provided (either written or verbal) through testing are based on our experience and do not constitute any product guarantee for the installer.

We recommend that all of the information provided is carefully studied before proceeding with application, and strongly advise that suitable tests are carried out on site before application in order to determine the suitability and compatibility for the specific project.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. As a result, the installer will be solely responsible for any damage derived from the partial or complete disregard of our guidance or the general mis-use of any of our materials.