

Dryseal System

Description

Dryseal is a unique fully mechanically fixed single layer Glass Reinforced Polymer thermosetting membrane and trim component based roof waterproofing system. The area to be waterproofed is fully encapsulated by factory manufactured components that are fixed through underlying layers of insulation or an existing roof covering to the substrate using purpose designed fixing plates and a range of different approved fastener types depending upon the substrate type.

All joints and details are waterproofed by the application of site applied GRP laminate as required prior to the application of a UV protective top coat and weathering surface.

Specification

Dryseal System (installed)	
Weight	< 3kg/m ² (subject to fixing type & numbers used)
Thermal conductivity (k-value)	0.2W/mK
Thermal transmittance (U-value)	5.7W/m ² K
Co-efficient of expansion	22 x 10 ⁻⁶ m/m per °C
Fire classification	B _{ROOF} (t4) to BS EN 13501-5:2016 and F.AC to BS476-3:2004 (laid directly over combustible timber substrate)
Water absorption	< 3% (24hrs at 20°C)
Water vapour resistance	475MNs/g (75%RH, 25°C)
Tensile strength	112kN/m
Finish colour	Dryseal Dark Grey (other colours to special order)
Min. / Max. gradient	No restriction
Roof access	Restricted access only unless surface protection provided
Resistance to:	
Sunlight	UV stabilised resin used in flat sheet, trims and jointing resins. UV resistant top coat.
Chemicals	Compatible with all established construction materials. Resistant to most airborne pollutants, however certain acids, alkalis and solutions of water soluble gases may attack the GRP and fasteners.
Biological	Resistant to root penetration and attack by micro-organisms, fungi, larvae, insects and mildew.
Dryseal Components	
Dryseal Membrane	
Thickness	1.3mm nominal
Length	6.0m
Width	1.25m
Dryseal Trims	
Thickness	1.2mm nominal
Length	3.0m
Fixing Plates (DP40)	40mm diameter glass filled polyamide
Jointing Resin	Special purpose pre-accelerated orthophthalic polyester resin
Joint Reinforcement	450g/m ² chopped strand glass mat with 30g/m ² glass surface tissue
Top Coat	Special purpose pre-accelerated isophthalic polyester resin

Handling & Storage

All components of the system should be handled with due care and stored in a dry ventilated area in the original packaging and protected against frost, weathering, UV exposure, pollution, contamination and mechanical damage. Storage temperatures should not fall below 5°C for use or exceed 25°C. All liquids should be stored in accordance with the Highly Flammable Liquids Regulations 1972 and HSG140 'Safe use and handling of flammable liquids'. Material Safety Data Sheets are available separately.

Guarantee

The system has an expected service life in excess of 30 years and carries a 20 year 'leak free' manufacturer's guarantee with a 10 year installer's guarantee and an insurance-backed warranty. Documentation is available separately.

This Guarantee shall only apply to product installed by approved installation contractors and when exposed to normal weather conditions within northern European Union countries. It is subject to the system and its components being stored in accordance with the above recommendations and fitted in accordance with the recommendations and details contained within the Dryseal Technical Manual.

The Guarantee does not extend to cover damage caused by abnormal movement or use of the roof, accidental or malicious damage or deterioration of the product colour because of natural weathering conditions.

