

# StressPly Signature S-115

Technical Data Sheet



## Product Description

StressPly Signature is a superior performing modified bitumen membrane with high quality SBS modifiers. The membrane has superior tensile strength, offering in excess of 1350 N/50mm in the machine direction, utilising a composite polyester/fibreglass reinforcement. The cold bending performance of the membrane is the highest we currently offer and performs to the current standards down to -30 degrees Celsius.

## Features:

- ✓ Modifier Technology
  - StressPly Signature has been formulated using only the highest grade of SBS modifiers. The StressPly Signature compound ensures superior low temperature flexibility and waterproofing capability for long-term performance.
- ✓ Security in multi-ply application
  - StressPly Signature is the top component of a multi-ply roofing system. It combines the inherent advantages and proven performance of multi-ply protection with the strength, flexibility and elongation of elastomeric systems. This unique combination maximises roof performance and long-term waterproofing capability.
- ✓ Superior strength
  - The StressPly Signature membrane is reinforced with a composite high strength polyester and fibreglass scrim. This superior strength resists the movement created by today's modern buildings. In addition, the composite scrim in StressPly Signature provides tensile strength in excess of 1450 Newtons in the machine direction. This translates to long-term resistance to splits and tears in the completed StressPly Signature roofing system.

## Uses

Used as part of a multi-ply modified bituminous waterproofing system for flat roof installation. StressPly Signature can be used in conjunction with other Garland high performance roofing membranes and underlays.

## Application Instructions

The substrate should be clean, smooth and dry. For a better adhesion it may be previously treated with Garland Garla- Prime. The membrane is then laid by melting the lower side with a propane gas flame. Edges shall be overlapped, always by torch, by at least 75mm on the sides and 150mm on top so that waterproofing integrity is maintained.

### Technical Data

Reinforcement type:	Composite polyester/fibreglass mat.
Compound type:	Bitumen modified with thermoplastic rubber (SBS).
Surface finishing:	Upper side: Coloured slate      Lower side: Polypropylene film.
Laying method:	Propane-gas light flame

If you require any further information please contact your local Garland Technical Manager.



### Garland UK

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Properties	Norms	Unit	Value	Tolerance
<b>Physical Data</b>				
Type of compound			SBS	
Type of reinforcement			Composite polyester/fibreglass mat.	
Finish upper face			Slate granules	
Finish lower face			Film pp	
Length	EN 1848-1	m	5	±1%
Width	EN 1848-1	m	1	±1%
Thickness	EN 1849-1	mm	5.5	±5%
<b>Mechanical Data</b>				
Watertightness	EN 1928	kPa	60	≥
Cold temperature flexibility	EN 1109	°C	-30	≤
Visible defects	EN 1850-1		NO	
Flow resistance	EN 1110	°C	100	≤
Shear resistance of joint L/T	EN 12317-1	N/5cm	1100/900	±20%
Tensile strength L	EN 12311-1	N/5 cm	1350	±20%
Tensile strength T	EN 12311-1	N/5 cm	1050	±20%
Elongation at break L	EN12311-1	%	40	±10%
Elongation at break T	EN 12311-1	%	40	±10%
Nail tear strength L	EN12310-1	N	450	±30%
Nail tear strength T	EN12310-1	N	450	±30%
Dimensional stability	EN 1107-1	%	-0.3/0.3	
Static puncture resistance	EN 12730	kg	25	≥
Dynamic puncture resistance	EN 12691	mm	1000	≥
<b>Fire Performance</b>				
Fire resistance	EN 13501-5		B <sub>ROOF</sub> <sup>(t4)</sup>	
Fire reaction	EN 13501-1		E	
<b>Application Data</b>				
Minimum application temp		°C	5	
Minimum slope		%	1.5	

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