

Laser Gold Plain / Minerals

TECHNICAL DATA SHEET
January 2023

High Performance Polyester Reinforced Torch-on Waterproofing



Sand



Green



Charcoal



Laser Gold is a multi-layered bituminised waterproof system designed for use on various types of flat roofing projects including new build and refurbishments, cold roofs and warm roofs using vapour control layers with insulation. This range of membranes feature a polyester core which is saturated and coated in SBS bitumen and the upper surface is finished with a choice of either light sand or slate mineral.

When incorporated in a suitably designed and installed multi-layer system, maintained in accordance with BS 8217:2005 - Reinforced bitumen membranes for roofing, the Laser Gold system may be expected to last in excess of 20 years.

Product Details

Product Code	Roll Length	Roll Width	Finish	Pallet Quantity
P902	8m	1m	Sand	25 rolls
P903	8m	1m	Green Mineral	25 rolls
P906	8m	1m	Charcoal Mineral	25 rolls

Key Features & Benefits:

- High Performance
- Polyester reinforced
- SBS modified bitumen
- Integral part of 20 year system

Suitability

The Laser Gold sand surfaced membrane may be used both as an under layer and a cap sheet. Where used as a cap sheet, suitable protection from ultraviolet light is required in the form of either

premium grade solar reflective paint or suitable walkway type tiles which are suitable for use over bituminous system. Laser Gold polyester membranes can be relied upon to react in unison when combined in multi-layer built up roofing systems. Such combinations are readily applicable to roofs with high insulation values where considerable thermal movement is likely to occur.

Aesthetics

Laser Gold can be finished with a choice of coloured mineral slate, or alternatively with chippings, concrete or wooden slats allowing the building to blend in with its environment. A green roof option also promotes harmony between the building and its surrounding environment and improves the urban landscape.

Installation Guidelines

This product should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217:2005 – the code of practice for reinforced bitumen membranes for roofing.

Performance and Key Properties

Characteristic	Test Method	Result	Tolerance
Roll Length	BS EN 1848-1	8m	+/- 150mm
Roll Width	BS EN 1848-1	1m	+/- 1.5%
Roll Weight	BS EN 1849-1	36kg (sand) / 40kg (minerals)	+/- 5%
Straightness	BS EN 1848-1	PASS	
Visible Defect	BS EN 1850-1	PASS	
Adhesion of Granules	BS EN 12039	1.52% (minerals)	<20%
Watertightness	EN 1928:2000 Method A	PASS	
Resistance to tearing	BS EN 12310-1		
Longitudinal		174 N/50mm (sand) / 202 N/50mm (minerals)	>120 N (sand) / > 100 N (minerals)
Transverse		214 N/50mm (sand) / 216 N/50mm (minerals)	>120 N (sand) / > 100 N (minerals)
Flexibility at low temperature	BS EN 1109	-10°C	
Tensile Properties	BS EN 12311-1		
Longitudinal		844 N/50mm (sand) / 719 N/50mm (minerals)	>350 N
Transverse		512 N/50mm (sand) / 521 N/50mm (minerals)	>250 N
Tensile Elongation	BS EN 12311-1		
Longitudinal		40% (sand) / 43% (minerals)	>20%
Transverse		46% (sand) / 53% (minerals)	>20%

Mineral Surface Protection

The upper surface of certain Laser Gold membranes is protected using mineral granules, which are sourced from natural quarrying. The colours of the minerals therefore can sometimes vary depending on seam depths and extraction positions within the quarry. However, after the effects of the weathering and ageing, any variations will become less visible.

Maintenance and Repair

Routine inspection, cleaning and maintenance of the roof membranes should be based on the recommendation in BS 8217:2005. Should it be damaged either during construction or at later date, then the repairs should be made using the same materials so that the performance of the built-up membranes is retained.

Standards

Manufactured in accordance with BS EN 13707:2004+A2:2009 - Flexible sheets for waterproofing. Reinforced bitumen sheets for roof waterproofing.

Handling and Storage

The material should be stored vertically on a firm flat surface and transported stood on end to avoid damage.

Certification

UKCA certified & CE Marked to EN 13707:2004+A2:2009.
CE Certificate Number: 0086-CPR-595938.
UKCA Certificate Number: 0086 CPR 753192.

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. Health and safety data sheets are available for all materials on request from Chesterfelt.

Quality Assurance

Laser Gold membranes are manufactured in accordance with BS EN ISO 9001:2015 - Quality Management Systems (QMS).

Associated Products

Laser Gold system membranes.



Cert No.
0086-CPR-595938



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