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# Monarplan GF

## Single Ply Roof Waterproofing Systems



### Introduction

Monarplan is a flexible PVC-P single ply membrane offering excellent characteristics of strength, elongation and weathering making it ideal for new build or refurbishment projects. Membranes are reinforced and are available with or without a fleece backing providing scope for all methods of application and offering specifiers confidence in performance and unlimited freedom in design.

### Standard

Monarplan GF has been independently site and laboratory tested by the British Board of Agrément and awarded BBA certificate number 10/4739.



### Description

Monarplan GF membranes are glass reinforced, flexible, polyvinyl chloride (PVC) single-ply roof waterproofing membranes. A mixture of polymer compounds extruded to achieve a consistent homogenous sheet, are brought together in two layers to encapsulate a glass reinforcement. The membrane is factory laminated to a 250 gsm non-woven polyester fleece. The fleece is absent for 75mm at one edge of the roll to allow for welding at the overlap, to form a homogeneous seal using hot-air equipment.

### Intended Use

Monarplan GF membrane is intended for use as an exposed membrane in fully adhered systems.

### Properties

	Value
Roll Size	2.12 m x 15 m
Membrane Thickness	1.5 mm
Roll Weight	70 kg
Colour <sup>(1)</sup>	Light Grey (RAL 7001) Anthracite (RAL 7015)

(1) Standard colours. Other colours available to minimum special order: Turquoise (RAL 5018); White (RAL 9010); Blue (RAL 5005); Stone Red (RAL 3011); Green (RAL 6004).

### Durability

Monarplan PVC is resistant to weathering, chemical oxidation and UV degradation. Monarplan PVC membranes have a life expectancy in excess of 30 years, demonstrating superior durability and system service life performance.

### Compatibility

Monarplan roof membranes are not compatible with other plastic materials, such as expanded and extruded polystyrene, and are affected by direct contact with commonly used roofing materials such as bitumen, asphalt or tar, or products containing them.

A suitable separation layer, such as the Icopal SLP 300 geotextile fleece, should be used with incompatible substrates or materials to prevent contact between it and the membrane.



EN 13956

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1349-CPD-066

Ref: ICO2002



## Fire Performance

Monarplan GF has been tested to DD CEN/TS 1187: 2012 (Test 4) (euro class) and classified to BS EN 13501-5 achieving fire rating class B<sub>ROOF</sub> (t4).

## Jointing

Adjoining sheets of Monarplan GF are fused together by hot air welding. The weld should be a minimum of 40 mm wide.

Typically for the main area of the roof an automatic welding machine is used providing clean and consistent welds whilst providing maximum control over both temperature and speed. The integrity of each weld should be checked manually with a seam probe, or an electronic integrity test may be carried out.

## Surface Preparation

Airborne dust and debris blown into the lap areas can contaminate the weld. Windy conditions may dictate stopping work until conditions improve. Contaminated laps should be cleaned prior to hot air welding.

## Membrane Application

Exercise caution when walking on wet membrane as they are slippery when wet.

Prior to, and during membrane installation, inspect and correct the substrate; i.e. voids or gaps between insulation boards, uneven or step-off conditions, insulation plates that will fall under the laps and any other surface irregularities that can cause voids in the weld. Position sheets to allow for minimum 50 mm side laps using the pre-printed guide line. Fold or roll the membrane back halfway. Apply membrane adhesive in accordance with current instructions, ensuring no adhesive is applied to the area to be welded, and place the membrane into the wet adhesive. At end joints, and where there is no fleece-free selvedge, the membrane should be butt jointed, and strapped with 150 mm wide Monarplan Reinforced Strip.

The membrane should be attached using Icopal Single-ply Fleeceback Adhesive, or appropriate Icopal Membrane Spray Adhesive, in accordance with current instructions.

Position laps so that water runs across or parallel to the laps where possible. Ensure a minimum 40mm hot air weld is achieved.

Refer to Icopal Technical Services Department for further information.

NOTE: This information is given in good faith being based on the latest knowledge known to Icopal Limited. Whilst every effort has been made to ensure the contents of the publication are current while going to press, customers are advised that products, techniques and Codes of Practice are under constant review and liable to change without notice. Up to date information is available from our Technical Services Department on request.

Responsibility cannot be accepted for the application of products, and no claims can be considered, where the manufacturer's instructions have not been followed. The user should not assume, based on information provided in this sheet, that the product is suitable for any abnormal use.

All products are sold subject to our standard conditions of sale, available on request.

## Quality Assurance

Monarplan GF membranes are supplied under a Quality Management System approved to *ISO 9001: 2008* by BSI Quality Assurance.



QMS: Q5556

## NBS Specification

Monarplan GF is specified using the following:

**Clause:** J42/110, J42/120, J42/130

**Product:** Monarplan GF.

**Manufacturer:** Icopal Ltd. Barton Dock Road, Stretford, Manchester, M32 0YL. Tel: 0161 865 4444.



## Delivery and Storage

The membranes are delivered to site in rolls packed on pallets. Store and protect materials from mechanical damage and shelter from rain and sun. Cover with a light-coloured, breathable tarpaulin. Exercise caution and do not exceed the allowable live load of the structure. Keep the materials in unopened packaging prior to use, reseal any damaged packing.

## Technical Services

Specialist advice and design guidance on all matters relating to Monarplan systems is freely available from our Technical Department at the address below.

## Availability

Item Code	Description	Size (m)	Colour
3006447	Monarplan GF 1.5	2.12 x 15	Light Grey
310000	Monarplan GF 1.5	2.12 x 15	Anthracite