

Why break with tradition?

In a comparison between traditional roofing systems and GRP there is only one clear choice.



Traditional bitumen-based roofing systems rely on building up several layers of materials to waterproof the roof. Each layer usually represents five years of waterproofing and as the layers break down and become ineffective the roof will eventually leak. A GRP roof will

outperform virtually any other traditional or modern roofing material and has the potential to outlast the structure it is protecting.

One of the features of GRP which sets it apart from nearly any other roofing system is that it is a monolithic laminate. This means that it doesn't suffer the problems inherent in systems that have seams, joints or welds, which are usually the weakest point of any roof. Because a GRP roof is constructed from one layer, it is less labour intensive and quicker to install than many other roofing systems. Obstacles or features can either be weatherproofed or incorporated into the substrate with ease on any size of roof and in any colour. GRP roofing is also cold applied which avoids the risks and environmental costs associated with hot works.



FAQ's

HOW IS A GRP ROOF LAID?

While a GRP roof is relatively easy to install, we advise that you consult one of our GRP roofing guides.

WHAT COVERAGE CAN I EXPECT FROM THE MATERIALS?

Roofing Resin is applied at a rate of 1.5kg/m². Topcoat is applied at a rate of 0.5/m². For a comprehensive guide to planning the materials you will require for a specific size of roof please see our Materials Estimator datasheet.

HOW LONG DOES IT TAKE TO INSTALL A GRP ROOF?

An average domestic garage roof of around 20m² can be removed, re-decked, laminated and topcoated within a day by a team of two men.

HOW LONG DOES IT TAKE FOR A GRP ROOF TO CURE?

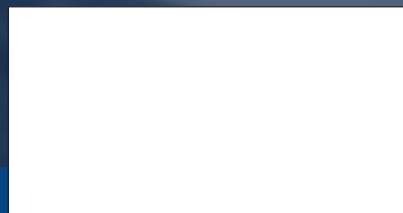
Depending on the temperature, a roof should be cured to the touch within 30 minutes to 1 hour and completely cured within a day or two.

HOW LONG WILL A GRP ROOF LAST?

We do not know! A well-laid GRP roof installed with the correctly formulated resins has the potential to last as long as the structure it is protecting. Many of the first GRP roofs laid more than 35 years ago are still in service today.

WHERE CAN I BUY GRP ROOFING MATERIALS?

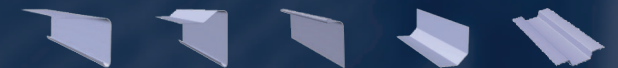
Any depot supplying this leaflet will stock a selection of specially formulated roofing resins, topcoats, chopped strand mat, trims and ancillaries.



GRP Flat Roofing

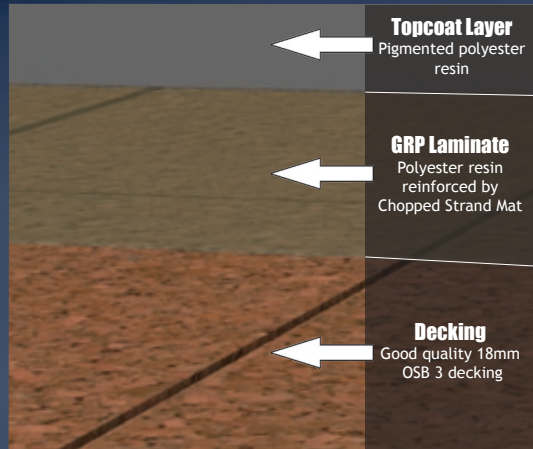


A Brief Guide to GRP Roofing



What is a GRP Roof?

A GRP roof is a single-ply GRP laminate applied in situ over a good quality OSB3 deck. The roof is finished with pre-formed GRP edge trims and a coat of pigmented topcoat.



GRP has been used as a waterproofing material for over fifty years for applications as diverse as boats, water tanks, lorry and car bodies, roof lights, ponds and pools. When used to construct a boat, GRP will provide waterproofing protection for the boat's entire lifespan of twenty plus years without the need for maintenance or replacement. This same level of performance is easily replicated on a domestic roof.



LONG LIFE

A survey of GRP buildings by the BRE (Building Research Establishment) in 2001* found the condition of several GRP buildings around 25 to 30 years old to be structurally sound. "A modular GRP stores building was constructed at Wollaston in 1968, to demonstrate the suitability of this material for construction purposes. When examined 28 years later it was found to be mechanically sound. The BRE noted that today's materials would undoubtedly have a much improved service life."

COST EFFECTIVE

When GRP is considered for large scale projects in comparison to traditional bituminous roofing materials, it doesn't compete on cost but its lifespan will always be many times greater. GRP is frequently specified by local authorities for large scale jobs as a cost-effective and permanent solution.



CAN BE USED FOR ANY APPLICATION



GRP can be used on applications of any size or complexity. Skylights, gutters, pipes, vents, stairs, walls and roof structures can all be weatherproofed or incorporated into the substrate with ease. Pre-formed fascia trims allow GRP to be adapted to nearly any application. GRP can be used as a construction material for roofing furniture such as window casements and roof lights and is well suited

to use on patios, walkways, roof gardens and as a lining for tanks, ponds and pools. The durability of the material means that as long as the roof joists are strong enough, a GRP roof can be easily converted into a roof terrace or garden.

ENVIRONMENTALLY FRIENDLY

GRP has an incredibly good environmental profile; much less energy is used to produce it compared to many other roofing materials. A GRP roof is completely cold applied and does not require 'hot works' such as burners or torches. GRP roofs do not give off substances that can harm the environment or create any other toxic by-products. The long life span of GRP out-performs virtually any other roofing system and this eliminates the environmental cost of producing and installing replacement roofing systems in the future.

QUICK AND EASY TO LAY IN A WARM OR COLD ROOF CONFIGURATION

TOLLERANT OF FOOT TRAFFIC

GRP is an extremely durable material which can withstand foot traffic in its standard specification and can be specified to withstand frequent heavy foot traffic. It is ideal for use on walkways, patios and stairs and can also be installed with a non-slip finish.

MAINTENANCE FREE

FULLY BONDED

When a GRP roof is installed, the system is mechanically bonded to the decking. It is impossible to remove it without also removing the surface from the boards.

AVAILABLE IN A SELECTION OF COLOURS



*Halliwell, S. (2001) NGCC Conference Composites in Construction: In Service Performance of GRP composites in Buildings, 30-31. BRE.