

Romag

Architectural & Security Glass



Soulful architecture
has a heart of glass





About Romag

Specialising in architectural and security glass, Romag is one of the UK's leading independent glass processors. Trusted worldwide by leading organisations to deliver high quality, reliable glazing solutions we offer a range of bespoke products designed to meet our customers specific requirements.

We have been processing glass in our factory in the North East of England since 1943 and it's our knowledge and experience that sets us apart, ensuring we provide a first class product each and every time. Over the years our highly skilled staff have gained significant expertise and are ideally placed to deal with the challenges facing the market, both now and in the future.

We offer an extensive range of specialist glass products, providing the most demanding bullet and blast resistant glass specifications utilising glass polycarbonate laminating technology. Our architectural range includes both functional and flexible solutions to meet an array of design requirements, ranging from glass floor panels, balustrades and staircases to high performance solar control glass. Our in-house expertise also means that any of our products can include augmentations such as decorative glass coatings, screen printing or tinted interlayers including the Vanceva range enabling a dynamic colour palette to be achieved to meet your specific needs.

Whatever your glazing requirements our dedicated teams are happy to provide advice and support to develop the most effective solution to meet your needs.

- **Wide range of innovative glazing solutions**
- **High quality and reliable**
- **Experienced and knowledgeable staff**
- **Flexible and responsive customer services**



The Romag way



At Romag we believe in doing things a certain way and it's this way that has kept customers coming back for over 50 years.

Technical support

Our team of technical experts are on hand to provide support and advice where needed and we pride ourselves on the first class service we provide to customers, no matter how complex the project.

Quality products

You can rely on the quality of our products, all production is carried out in our BS EN ISO 9001:2000 certified factory and our glass meets many worldwide standards and these include:-

Physical Attack

BS EN 356, DIN 52290 Part 3
BS 5544, LPS 1270, Level A & B (Loss Prevention Council)

Bullet Resistant Glass

BS EN 1063, DIN 52290 Part 2, BS 5051 Part 1 1988,
AS 2343 Part 1, STANAG

Blast Resistance

DIN 52290 Part 5

In house testing

With our in house testing facilities, which include a high velocity cannon for firing projectiles to test the impact resistance of glass, and a ballistic firing range, we are able to develop glass to satisfy clients specific requirements for protection against ballistic attack.

Responsive delivery service

Our specialist fleet deliver to all areas of the UK and offer a flexible and responsive service to our customers. European and international delivery can also be arranged and we are happy to accommodate any specific delivery requirements.

Our promise to you

Our products



At Romag we believe in the quality of our products and provide a minimum of 12 months warranty on all our products against manufacturing defects and delamination.

From requesting a quote through to placing your order, delivery and beyond, our dedicated UK based customer service team are available to assist should you experience any problems or have any questions relating to your products.

6

Our core strength lies in bespoke functional products which are technically challenging and which meet your specific requirements. Our core processes are:

- **Laminating products**
- **Toughened glass**
- **Glass bending**
- **Photovoltaic Laminates (PowerGlaz®)**
- **Specific edgework requirements**

We also offer additional services to provide customers and their clients with a complete solution to meet specific needs. These include:

- **Ceramic screen printing**
- **Heat soak testing**
- **Insulated glass units**
- **Structural silicone bonding and framing**

This versatility allows us to be responsive to your requirements and we are continually researching new and improved processes to address the needs of an ever developing market.

Safety glass



Romag supply a range of safety glass products satisfying a diverse array of requirements to meet the following standards.

BSEN12600
BSEN12150

Laminated

A standard laminated product comprises of two layers of annealed float glass bonded together with a polyvinyl butyral (PVB) interlayer.

Toughened

Our “state of the art” toughening plant produces high quality toughened glass compliant with the current BSEN12150 standard for toughened glass.

Physical security



We offer a comprehensive range of intruder resistant products that meet a range of international quality standards, including BSEN365.

Options can be produced with a low spall rear face to offer maximum protection from flying glass splinters. Typical applications include jewellery shop display cases and other vulnerable areas where the possibility of break in or physical attack exists.

Because we manufacture all our products to order this allows us to incorporate other possible requirements such as bespoke design features or fire rated products.



Bullet resistant



Romag has been the UK's leading manufacturer of transparent bullet resistant composites for more than 25 years. Our glass provides protection to many high risk military installations, government buildings, embassies and VIP residences in numerous worldwide locations.

Manufactured from several layers of glass of various thickness and bonded together with tough polyvinyl butyral (PVB) interlayers, the quality of our bullet resistant glass is second to none. The overall thickness is governed by the "threat level" specified, but on attack the front layers of glass are designed to shatter thereby absorbing the initial impact energy, subsequent glass layers and PVB absorb the lower level shock waves.

Where enhanced security is required we recommend the use of glass clad polycarbonate which combine chemical and abrasion resistance of glass with the impact resistance of polycarbonate. The key advantage of this over standard laminated glass products is that the weight of the glass is greatly reduced whilst improving the level of protection.

Blast resistant

Our blast resistant range is designed to combat one of the major causes of injury and fatalities in blast situations, the flying glass shards caused by the pressure of the explosion. Because our glass is produced using a tough polyvinyl butyral (PVB) interlayer, much of the energy produced by the blast is absorbed and the glass remains in position meaning the risks associated with flying shards of glass are greatly reduced.

We have several different processes that can increase the level of protection offered. In addition to standard laminating we offer single and double glazed solutions and can also offer a polyester based film laminated to the rear surface of the glass to provide an even higher level of protection. This product is known as Spallban.



Architectural glass



More and more so we are being asked to provide solutions to serve both technical and aesthetic functions. As well as providing an answer to the increasing demands of solar control, we also offer various protection levels to counter the threat from intruders and terrorism.

Glass is therefore increasingly becoming a multifunctional component within building design. We pride ourselves that the glass we supply can meet both the demands of the world we live in today and still enable individual designer's creativity to shine through.

Laminated

Laminated glass is manufactured by bonding together two or more layers of high quality float glass under heat and pressure using an interlayer of polyvinyl butyral (PVB). The PVB serves to maintain the integrity of the glass following deliberate or accidental damage.

The PVB has no adverse effect on the visible light transmission but absorbs in excess of 99% of ultra-violet light. Laminated glass can perform many functions including safety, security, bullet and blast resistance.

Laminated safety glass is used in architectural applications where the use of monolithic glass would present a hazard if breakage were to occur. A large range of tinted interlayers,



patterned and coated glass can also be used to provide solar control and obscuration where desired.

Toughened

Our toughening process at Romag includes heat soak testing to both DIN18516 and PREN14179. We can also offer heat strengthened glass from 4mm to 10mm in thickness.

Coated glass

By adopting the latest technology we are able to process the new generation of high performance soft coated low emissivity insulating glasses and toughenable solar control coated glass variants.

Screen printing

Our state of the art screen printing line is among the largest in the glass industry, enabling us to provide screen printed glass for the architectural and specialised vehicle markets. Virtually any design or RAL colour can be reproduced in ceramic ink which is fixed in and fused to the surface of toughened or heat strengthened glass.

Glass machining

The facility is all encompassing. We are able to machine glass to complex shapes, provide top quality edge finishes, rout and drill glass.

Glass floors

Our glass floor panels can be used to serve many different functions including dance floors, stair treads, landings, corridors and even externally on access roofs.



Solar control



The benefits of our laminated glass can also be combined within a range of environmental control glass which provides a more comfortable interior for glazed structures by reducing heat build-up as well as reducing heat loss in colder climates.

Solar control interlayers are ideal for lower performance solar control, whilst providing aesthetically pleasing coloured tints to laminated glass. All benefits and performance characteristics of standard clear PVB interlayers remain unchanged with the added performance benefits of tinted glass.

All Romag PVB laminated glass filters 99.9% of harmful ultra-violet light and our California Series Glass® reflects a large percentage of infrared light which is the cause of heat build up.

Romag California Series Glass® products sandwich a “heat rejecting” film between two layers of PVB and glass. The finished product has a unique, low reflective appearance, while allowing more than 70% visible light transmission but allowing less than 35% of solar heat gain.

This innovative series invites the architectural use of sunlight while selectively reducing unwanted heat gain. It can be used in a range of applications including vertical, sloped, or overhead glazing, from curtain walling to monumental skylights, this technology offers architects numerous possibilities when it comes to energy efficient glazing.

Building for the future

At Romag we are passionate about continuous improvement and continually strive to improve not only the service we provide to our customers but also the products we manufacture.

Our technical teams ensure we are at the fore of our profession and compliant with all relevant legislation meaning you can rely on the quality of our products both now and in the future.

The Romag family



Did you know that as well as being a leading manufacturer of architectural and security glass we also provide glass to the transport market. In addition we have also used our glazing expertise to manufacture high quality Photovoltaic solutions, including on roof modules, roof integrated and building integrated PV technologies.

Speak to one of our sales representatives to find out more.

14

Contact



To find out more, call us
today on 01207 500 000



Email: sales@romag.co.uk



or visit: www.romag.co.uk



Romag

Architectural & Security Glass



Romag Ltd, Leadgate Industrial Estate,
Consett, County Durham, DH8 7RS

To find out more call us today on **01207 500 000**,
email sales@romag.co.uk
or visit www.romag.co.uk.