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British glass manufacturerFor other uses, see Pilkington (disambiguation). Pilkington Group LimitedCompany typeSubsidiary to Nippon Sheet Glass of JapanIndustryGlassmakingFounded1826 (St Helens) FounderWilliam Pilkington HeadquartersLathom, Lancashire, EnglandNumber of locations22 sites in the UKProductsGlass and glazing solutions for
automotive and architectural. Owner Nippon Sheet Glass Parent NSG Group Websitewww.pilkington.com Pilkington is a glass-manufacturing company which is based in Lathom, Lancashire, England. It includes several legal entities in the UK, and is a subsidiary of Japanese company Nippon Sheet Glass (NSG). It was formerly an independent company
listed on the London Stock Exchange and a constituent of the FTSE 100 Index. Established in 1826 as the St Helens Crown Glass Company, the company gradually grew to become the largest employer in St Helens, where it was originally based. It was renamed Pilkington Brothers in 1845 following the ending of the partnership with the Greenall
family. The business continued to expand, becoming Pilkington Brothers Limited after its incorporation in 1894. In 1903, it became the sole British manufacturers remaining in Britain, the other being
Chance Brothers; the firm gradually expanded its stake in Chance and fully acquired it in 1951. The company performed strongly during the Second World War, fulfilling all wartime demands and emerged in a relatively strong position in the conflict's aftermath. During the 1950s, Pilkington employees Alastair Pilkington (no family relation) and
Kenneth Bickerstaff invented the float glass process; the firm leveraged licensing agreements for many other manufacturers to use this new process in exchange for royalty payments. Throughout the 1960s and 1970s, Pilkington invested heavily into its manufacturing sites and acquired numerous overseas competitors. It also became a major world
supplier of toughened and laminated safety glass via its controlling interest in Triplex Safety Glass. During 1970, Pilkington was floated as a public company on the London Stock Exchange; prior to this, the firm had been owned by a combination of descendants of the Pilkington family and several employee trusts. In late 1985, Pilkington was the
subject of a hostile takeover bid from BTR Industries which it successfully warded off. During the 1990s, amid allegations that Pilkington filed a proposed consent decree that released other businesses from several licensing terms. In late 2005, the
company received an initial takeover bid from NSG; a second and more generous bid was accepted by Pilkington's key shareholders. The acquisition was completed during June 2006; the combined company has since competed for global leadership of the glass industry. Pilkington Floatglass former factory in Halmstad, Sweden. Closed since
2012.Pilkington glass in a Mercedes-BenzA trailer with Pilkington liveryThe company was founded in 1826 as a partnership between members of the Pilkington and Greenall families, based in St Helens, Lancashire, England.[1] The venture used the trading name of St Helens Crown Glass Company, [2] The company grew to become the biggest
employer in St Helens. The distinctive blue-glass head office tower block on Alexandra Business Park, off Prescot Road, originally used as the firm's world headquarters, and completed in 1964, still dominates the town's skyline.[3]Following the departure from the partnership of the last Greenall in 1845, the firm was renamed as Pilkington Brothers
[4] During 1894, the business was incorporated under the Companies Act 1862 as Pilkington Brothers Limited.[5] In 1903, it became the sole British manufacturer of plate glass as well as the dominant producer of sheet glass.[2] Throughout the first half of the twentieth century, the company struck a series of market agreements with various domestic
and European glass manufacturers of varying effectiveness.[2] European competitors, particularly those based in Belgium, had applied considerable competitive pressure to Britain's glass making industry; Pilkington was less susceptible due to a strong focus on exports and international developments throughout the British Empire and South
America.[2][6] The company also invested heavily into its manufacturing capabilities, such as a new plate glass works outside Doncaster in 1922, and introduced new production techniques.[2]After the First World War, Pilkington was one of only two large glass manufacturers remaining in Britain, the other being Chance Brothers, which mostly
produced cast glass.[2] The two companies formed various agreements during the interwar period to share the domestic market and to not undercut each other; furthermore, Pilkington agreed to purchase any shares in the firm that Chance's owners wished to sell, thus it gradually built up a sizable stake in the firm. In 1951, Chance became wholly
owned by Pilkington.[2]Pilkington found itself in a relatively strong position in the aftermath of the Second World War, having exclusively fulfilled Britain's wartime requirements and even managing to expand its export activities.[2] While there was no reintroduction of the pre-war quota arrangements and its historic undertakings with individual
merchants were abandoned during 1950, the company still entered an export agreement with its competitors in the European mainland. Further reforms to its business practices were made in response to the enactment of the Restrictive Trade Practices Act 1956.[2] Between 1953 and 1957, Pilkington employees Alastair Pilkington (no family relation)
and Kenneth Bickerstaff invented the float glass process, a revolutionary method of high-quality flat glass production by floating molten glass to make it clear.[2] Pilkington allowed the float process to be used under licence by numerous manufacturers around the world.
Amongst other benefits, these licensing arrangements often helped the company to further its interests, including the expansion of its presence in the European market and even gaining stakes in other manufacturers.[2]During the 1960s and 1970s, Pilkington used the flow of float royalty payments to finance its investments in float glass plants across
several countries, including Argentina, Australia, Canada and Sweden, and also to acquire major existing flat and safety glass producers and plants in the United States (Libbey Owens Ford), Germany and France. [citation needed] Pilkington, with its subsidiary Triplex Safety Glass, in which it gradually acquired a controlling interest, also became a
major world supplier of toughened and laminated safety glass to the automotive, aerospace and building industries. [2] A Monopolies Commission report in 1967, concluded that Pilkington and Triplex operations were efficient and entrepreneurial and, despite their high share of the UK glass trade, operated in a manner suited to consumers' best
interests.[2] At the time, the majority of the company's shareholding was largely in the hands of various descendants of the original owners or employee trusts.[2]During 1970, sparked off by an error in wage packets, brought 8,000
workers out for nearly two months. The General and Municipal Workers Union and Trades Union Congress leadership failed to provide any support, as they were too closely bound to management and government circles, with the result that strike leaders were blacklisted. Anti-union legislation was introduced by central government. These events
were recreated in Ken Loach's film The Rank and File, although the BBC insisted on a change in the name and location of the company, so that the film is set at a fictitious "Wilkinsons" factory in the Midlands.[8]In late 1985, Pilkington was the subject of a hostile takeover bid from BTR Industries, a large British-based conglomerate group, which
valued the company at $1.64 billion.[9] Pilington's management rejected the offer and fought a successful defensive campaign in which various politicians took sides in the matter, thus BTR was compelled to withdraw its offer in February 1987.[10][11][12]Pilkington aggressively protected its patents and trade secrets through a network of licensing
agreements with glass manufacturers around the world. The modern "float" technique (pouring the molten glass on a layer of very pure molten tin) became commercially widespread when Alastair Pilkington developed a practical version, patented in the late 1950s and early 1960s. As Pilkington plc owned all but one of the manufacturing plants
around the world employing the float process, Pilkington had a monopoly. [citation needed] Although the patents had expired by the early 1980s, Pilkington had licenseed their use, and required the licensees to keep the details of the float glass process secret.
agreement to prevent new entrants into the market, with Guardian taking the lead to enable Pilkington, a British company, to reduce its exposure to United States antitrust law.[13]In May 1994, the United States Department of Justice filed suit on the grounds that Pilkington had created a cartel by exercising control over the markets in which its
licensees could sell float glass and construct float-glass manufacturing plants, and over the customers within each market to which each licensees had expired and any trade secrets which it might have had in the process used by the licensees had
long since become publicly known.[14] On the same day, the US government and Pilkington filed a proposed consent decree, which enjoined Pilkington from enforcing these restrictions against US non-licensees, or against non-US licensees wishing to export either technology or glass products to the United States. The
 Optronics, in order to group together the company's optronics businesses: Pilkington PE located in North Wales (formed in 1966), and Barr and Stroud (acquired in 1977) which was divested from Thales in December 2005 as Qioptiq Ltd.[18]Thomson-CSF acquired 50% of
 Pilkington Optronics in 1991.[19] In 1995, Pilkington Optronics acquired Thorn EMI Electro Optics which was renamed Pilkington Optronics from Pilkington Optronics in 1991.[19] In 1995, Pilkington Optronics acquired Thorn EMI Electro Optics which was renamed Pilkington Optronics from Pilkington Optronics acquired Thorn EMI Electro Optics which was renamed Pilkington Optronics from Pilkington Optronics from
the closure of its manufacturing facility in Taunton, Somerset, with the loss of 180 jobs.[21] In June 2007, Thales of the beryllium mirrors and structures business of Thales Optronics Limited to GSI Group Inc. for an undisclosed amount.[22]In late 2005, the company received a takeover bid from a bigger Japanese company, NSG, which had
previously built up a 20 percent stake in the business by 2002.[23] The initial bid and the first revised bid were not accepted, however, on 16 February 2006, NSG increased its offer for the 80 percent it did not already own to 165 pence per share (1.8billion or $3.14billion in total) and this was accepted by Pilkington's major institutional shareholders
 had around a quarter of the global market at the time of the deal. Pilkington had 19% and NSG around half that.[25]The acquisition was completed in June 2006, after the European Commission stated that it would not be opposed.[26] At the time of the merger, Pilkington and NSG had been the second- and third-largest glass manufacturers in the
 Rudd (born 1946)Pilkington has developed a self-cleaning coated float glass product, called Pilkington Activ. This self-cleaning glass has a coating which uses a method of photocatalysis to break down organic dirt with sunlight. The dirt is then washed away by the rain during a hydrophilic process. [28] Barker 1977, p.31 a b c d e f g h i j k l m n
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2004.Barker, T.C. (1977), The Glassmakers: Pilkington. Official websiteOfficial UK sitePilkington energiKare Energy Efficient GlazingRetrieved from This exciting range of high end, decorative acid etched glass offers excellent light
 transmission with various levels of privacy with contemporary and traditional designs for all tastes. Products which are hazardous materials require special packaging and carrier handling fees. Products designated as Other Regulated Materials-D
(ORMD) are indicated by a double plus (++). ORMD items are also regulated and may require special packaging or fees. Safety Data Sheets (SDS), formerly Material Safety Data Sheets or MSDS, are available upon request. Click the Safety Data Sheets (SDS) are available upon request.
for innovation and new technology. Ten years ago they had something new to exploit: vacuum glazing. It offered the same thermal properties as double glazing, but had the thickness of a single pane of glass. It quickly found a niche in high-tech office developments where cost was not the most important factor. Now, more than a decade later, vacuum
glazing is going to be available in the UK, only this time the company behind it has a different type of customer in mind. Nippon Sheet Glass, which pioneered the technology in partnership with the University of Sydney, acquired Pilkington, it was this
 purchase that opened up the opportunity to bring vacuum glazing to the UK. However, his immediate thought was not to market it to modern commercial projects but rather to tackle the long-standing problem of how to make older, historic buildings more energy efficient while keeping with the original design. It was the perfect solution for
 replacement windows in heritage projects where architects have for decades been looking for a way to keep the slim look of the original windows while still being able to comply with the Building Regulations. Launched under the firms EnergiKare brand, the Legacy vacuum glazing looks an attractive proposition. Each unit is made up of one pane of
clear float glass and another of low-emissivity glass, which are separated by a 0.2mm gap to give an overall unit thickness of about 6mm. Its size and its light weight mean it can be used as a like-for-like replacement for single panes in windows such as box sashes without modifying the frames, and normal putties and sealants can be used. Early talks
with English Heritage have proved positive, and although it would not be acceptable on grades I and II-listed buildings, it would be an option in conservation areas or properties where architects simply want to preserve the original aesthetics. The big benefit, of course, is the glazings U-value of 1.4W/m2K. This is comparable to a 24mm-thick double
glazed unit. Depending on the frame the glass is fitted in, it can outperform the minimum requirements of future Building Regulations. A protection cap plugs the hole through which the air is drawn out from between the two panes. So far, so good. But the technical performance comes at a price. The obvious visual one is the protection cap that
appears in the corner of every pane of glass, regardless of size. This plugs the hole through which the air is drawn out from between the two panes, and is therefore required by the production process. According to Phillips, it has been possible to create a vacuum by drawing air out of the edge of the unit in the labs but so far it has not been possible
to do the same in a factory, so the cap will be a feature of the glazing for the foreseeable future. For the UK market it will be changed from a silver disk to a black plastic cap, 6mm in diameter to try and make it less obtrusive. One way of reducing the number of caps appearing in a multi-pane window is to use surface-mounted glazing bars, which is
 possible when new frames are being made. The 20mm grid of micro-spacers is less of a problem; these sit between the two panes to prevent them imploding. With a diameter of 0.5mm, they are obvious only when close up and, argues Phillips, they blend into the view. Another factor is shape. The vacuum units come as small as 200 x 350mm and as
 large as 1,350 x 2,400mm but the manufacturing process means that there must be two sides with straight edges at 90 degrees. That rules out a lot of shapes. Also, the glass cannot be toughened the production process requires the unit to be heated to up to 400C to create the vacuum, which would destroy any heat treatment previously applied. There
are two options where toughened glass is needed, one is to switch back to conventional 6mm single panes, the other is to apply a film coating. The big question is cost. Vacuum glazing could be about four times that of double glazing could be about four times that of double glazing. The big question is cost. Vacuum glazing could be about four times that of double glazing. The big question is cost. Vacuum glazing could be about four times that of double glazing. The big question is cost. Vacuum glazing could be about four times that of double glazing.
influence is transportation. So far the only production facility for the vacuum glazing is in Japan, which means it must be shipped to the UK delivery times are about eight weeks. Shipping costs are based on volume. Phillips says: To ship 50m2 of glass if its made up of 3m x 4m panes would require a large container and a lot of packaging and supports
 However, if someone wants 50m2 made up of small panes, the shipping cost would drop dramatically. The idea is to batch orders to make it cheaper. Ultimately the cost will drop dramatically if manufacturing begins in the UK. This will depend on demand but Phillips says the set-up costs would not be huge. The market share for double glazing in the
UK is about 20 million m2 a year. The market that Pilkington is targeting with its vacuum glazing is good for about 300,000m2 a year. If we get just 1% of that market, Ill be happy, says Phillips. But failing this there could be another niche for the technology super glazing for new builds. In theory, it could be possible to produce vacuum glazing with a year.
U-value as low as 0.6W/m2K by using a wider spacing of the panes, a higher vacuum or better performing glass. This would require significant R&D costs, but with ever tightening Building Regulations, there could be a market for it in the fairly near future. CHRISTIE GLASS High Quality Glass Suppliers Tel: 020 8687 2437 Email:
metre exclusive of VAT. For all other combinations/ranges please enquire. Quantity discounts available on large orders. Standard Double Glazed Glass Types 4mm Clear Low Iron/Planitherm 78.66 4mm Clear Low Iron/
 4mm Clear/Pilkington Activ Blue Toughened (Solar Control Self Clean) 162.96 4mm Clear/Planitherm Toughened 154.22 4mm Planitherm/Pattern 96.03 4mm Planitherm/Pattern Toughened 145.59 4mm Planitherm/Pilkington Activ Blue
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Argon filling (per square metre) 11.73 Holes in an annealed unit 43.70 Holes in a toughened unit 101.89 Other Glass POA Sand blasted glass POA Shower screens POA Single glass obscure POA Table tops POA Toughened unit 43.70 Holes in a toughened units can be 14mm-42mm in
thickness. Please specify when ordering (most modern sealed units are 28mm) Shapes + 20% Minimum area .3 of a metre Standard toughened service (48hrs) if ordered by 12 midday Toughened units available next day if ordered by 12 midday, and carry a premium of 25 or 25% whichever is greater For any other combinations/ranges please enquire
Processed Glass available, e.g. Shelves/Mirrors/Bevels/Polished Edges Fancy Leads specialists - please call for further information and/or brochure All the components we use for our fancy leads are supplied by Duralead. All our glass is supplied by Saint-Gobain glass and Pilkington Note: We are now using Planitherm (Softcoat) in place of K Glass.
This improves the efficiency of a unit by 40% {{::'LandingPageBannerMessage' | translate}} Pilkington United Kingdom Limited, part of the NSG Group, is one of the global leaders in glass and glazing technology. We manufacture architectural and automotive glass in St Helens, where the company was established in 1826. In 1959 Sir Alastair
 Pilkington invented the Float Process, which remains the world standard process for flat glass manufacture. Our industry-leading glass coating facility, also in St Helens, gives our glass properties such as Solar Control, Low Emissivity, Electrical Conductivity, and even Bird Safety! The Pilkington brand is synonymous with technical excellence and
service in the glass industry. We distribute our glass to an international customer base, either as stock or as bespoke processed products, direct from St Helens or through our network of nationwide branches. Our parent company, NSG Group, has set a target of reducing greenhouse gas emissions by 20% by 2030 compared to 2018 levels and has
been certified as a Science Based Targets initiative (SBTi). As part of this, we aim to achieve carbon neutrality by 2050. We've been taking huge strides in decarbonisation, but being part of an energy-intensive industry, we must focus on how else we can make change. NSG Group are always looking for the next generation of glass manufacturing and
coating technology experts to ensure we remain Best-in-Glass. From Pilkington UK's manufacturing sites in St Helens to NSG Group's European Research and Development Technical Centre in Lathom, Lancashire, find your career with us today at Follow this LinkedIn page to be the first to hear about company and career updates. For more
 information about our product range visit www.pilkington.co.uk. Primary Hall Lane Lancashire, England L40 5UF, GB Get directions Sutton Helens, WA10 1TY, GB Get directions Units 10-12 Lister Road, Industrial Estate
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Forge Drive Redditch, Worcestershire B98 7AU, GB Get directions Unit 1, Centurion Business Park, Bessemer Way Rotherham, S60 1FB, GB Get directions Were getting ready for FIT Show 2025 and Rameez is looking forward to meeting you! Rameez joined NSG Group just over a year ago as a Manufacturing Graduate and brings fresh ideas and a
curious mindset to everything he does. Based at our Greengate Works in St Helens, he works closely with the engineering and manufacturing teams to keep high-quality glass flowing on the float line. Hell be at the show on Wednesday, 30th April, chatting all things glass recycling with a spotlight on our renew: glass initiative Curious about how your
 business can get involved in recycling? Or just want to learn more? Come find us at Stand T40 for a chat Rameez will be happy to help! #FITShow25 Meet Paul! Our Head of Stock Sales, Paul Shipley, is heading to the FIT Show at the Birmingham
NEC on Thursday, 1st May and hes looking forward to meeting you! The FIT Show is a great chance to engage with customers, glass installers, and industry peers to better understand their needs and how we can support them. With over 24 years at Pilkington United Kingdom Limited, Pauls a seasoned pro in the glazing world. He brings a wealth of
 knowledge about how our glass products can deliver real-world benefits to your business and end users. Come and chat with Paul about: Your business needs and how you use glassOur wide range of products and services Sustainability initiatives, including cullet returns Whether youre exploring new solutions or just want to talk glass, Paul will be
happy to help. Stand T40 | Thursday, 1st May#PilkingtonUK #MeetPaul #GlassExpert #G
toughened or laminated safety glass, Georgian wired and Pyro glass for fire doors, as well as leaded or ornamental designs. View 2-light Door Clear Toughened double glazed units suitable for our external Richmond & Malton doors. Each
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 Door Single Clear Laminated Glass 6mm Clear Laminated Glass For 2XG Door. This single laminated glazing is for use with our internal 2XG M&T Redwood Doors E202P Frenc...Quick Ref No. 65382 View 2XG Door Single Obscure Glass 4mm
Obscure Toughened Glass For 2XG Door. This obscure glass. This glazing pack will suit the following doors: External ...Quick Ref No. 65645 View 2XGG Door Clear Toughened Double Glazing Pack Pattern 2XGG Door Toughened
Clear Double Glazing Pack. This toughened double glazing pack is suitable for our ranges of 2XGG Door Obscure Toughened Double Glazing Pack Pattern doors. This double glazing pack consists of two units, one for the bottom apertur...Quick Ref No. 61594 View 2XGG Door Obscure Toughened Double Glazing Pack Pattern doors. This double glazing pack consists of two units, one for the bottom apertur...Quick Ref No. 61594 View 2XGG Door Obscure Toughened Double Glazing Pack Pattern doors.
Glazing Pack. This toughened double glazing pack is suitable for our ranges of 2XGG Pattern doors. This double glazing pack consists of two units, one for the bottom aper...Quick Ref No. 61595 View 2XGG Doors. This single laminated
glazing is for use with our internal and external 2XGG doors. Each unit is 6.2mm thick. This glazing pack will suit the following doors: External 2XGG Door Single Obscure Toughened Glass Pack For 2XGG Doors. This single toughened glass is for use with our
 internal and external 2XGG doors. Each unit is 4mm thick. This glazing pack will suit the following doors: External 2XGG M&T Redwood Doors ...Quick Ref No. 65658 View 4-light Door Clear Toughened double glazed units suitable for our external York
toughened safety glass and are made to order to the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened double glazing Pack Consists of four toughened double glazing pack consists of four toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door, ...Quick Ref No. 61707 View 4-light Door Obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the specific size of each door obscure Toughened by the spec
and are made to order in your choice of obscure Single Glazing Pack. This glazing Pack York Obscure Toughened Single Glazing Pack York Obscure Single Glazing Pack Yo
Obscure Double Glazed Unit. This double glazed unit is for use with our external Acacia Doors. Each unit is 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61651 View Alicante Door Clear Double Glazed Units Alicante Clear Double Glazing Pack. This Alicante glazing pack consists of nine toughened double glazed
units suitable for our external range of Alicante doors. Each unit features clear toughened glass and are made to order to the specific si...Quick Ref No. 61643 View Alicante Door Obscure Double Glazed Units suitable for our external
range of Alicante doors. Each unit features toughened Glazing Pack Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened Glazing Pack is for our ranges of Bosworth Toughened
 made specifically for each door to ensure a correct fit. Other glazing packs are...Quick Ref No. 60313 View Bosworth Toughened Obscure Toughened Obscure Double Glazing Pack is for our ranges of Bosworth M&T doors, the glass pattern can be any standard obscure glass from the Pilkington Glass
 rangeThis glazing pack is 4mm thick toughened safety glass and is ...Quick Ref No. 60314 View Carlisle Door Clear Double Glazed Units is for use with our external Carlisle Doors. Each unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61629
View Carlisle Door Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Obscure bouble Glazed Units 14mm Clear Double Glazed Units 14mm Clear 
Pack, This pack of 4 double glazed units is for use with our external Carolina Doors, Each unit is 14mm Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Obscure Double Glazed Units is for use with our external Carolina Doors, Each unit is 14mm Obscure Double Glazed Units 14mm Obs
Each unit is 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61606 View Chateaux Door Clear Double Glazed Unit is 14mm thick and features clear toughened low-emission glass....Quick Ref
No. 61968 View Chateaux Door Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Clear Double Glazed Units 1
Glazed Unit Pack. This pack of 15 double glazed units is for use with our external Dakota doors. Each unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61790 View Dakota Door Obscure Double Glazed Units 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61790 View Dakota Door Obscure Double Glazed Units 14mm thick and features clear toughened low-emission glass....
Dakota doors. Each unit is 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61791 View Danielle Door Clear Double Glazed Units 14mm thick and features clear toughened low-emission
glass....Quick Ref No. 61965 View Danielle Door Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61966 View Downham Door Clear Double Glazed Units
14mm Clear Double Glazed Unit Pack, This pack of 9 double glazed units is for use with our external Downham doors. Each unit is 14mm Obscure Double Glazed Units 14mm Obscure Double Glazed Unit Pack. This pack of 9 double glazed units is for use with our external Downham Door Obscure Double Glazed Units 14mm Obscure Double Glazed
use with our external Downham doors. Each unit is 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61781 View Georgia Door Clear Double Glazed Units 14mm thick and features clear
toughened low-emission glass....Quick Ref No. 61762 View Georgia Door Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61761 View Georgian Toughened
Clear Double Glazing Pack Georgian LowE Clear Toughened Glazing Pack is for our ranges of Georgian M&T doors. This glazing pack is 14mm thick toughened Safety glass and is made specifically for each door to ensure a correct fit. Other glazing pack is 14mm thick toughened Safety glass and is made specifically for each door to ensure a correct fit.
Pack Georgian LowE Obscure Toughened Glazing Pack. This glazing pack is for our ranges of Georgian M&T doors, the glass pattern can be any standard obscure glass from the Pilkington Glass range. This glazing pack is 14mm thick toughened safety glass ...Quick Ref No. 60316 View Georgian Wired Clear Glass 585mm x 1005mm Single Georgian
Wired Clear Glass. This single clear Georgian wired glass is ideal for vision panels in FD30 fire doors, The size is 250mm x 350mm and supplied in single units. Other sizes are available please contact the sales team for details. ...Quick Ref No. 65644 View H2XG Toughened Clear Double Glazing Pack H2XG LowE Clear Toughened Glazing Pack. This
clear glazing pack is for our ranges of H2XG M&T doors. This glazing pack is 14mm thick toughened obscure Toughened Glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazing pack is for our cannot be considered on the glazin
ranges of H2XG M&T doors, the glass pattern can be any standard obscure glass from the Pilkington Glass range. This glazing pack is 14mm thick toughened safety glass and is m...Quick Ref No. 60317 View Kentucky Door Clear Double Glazed Units 14mm Clear Double Glazed Unit Pack. This pack of 13 double glazed units is for use with our external
Kentucky doors. Each unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61755 View Kentucky Door Obscure Double Glazed Units 14mm thick and features obscure toughened low-emission glass....
emission glass....Quick Ref No. 61756 View KXT Door Clear Toughened double Glazed Pack Pattern KXT/EKXT Clear Double Glazed units suitable for our external KXT & EKXT Pattern doors. Each unit features clear toughened glass and are made to order to the specific siz...Quick Ref
No. 61576 View KXT Door Obscure Toughened Double Glazed Pack Pattern KXT/EXXT Obscure Double Glazing Pack. This glazing pack consists of six toughened double glazed units suitable for our external KXT & EKXT Pattern doors. Each unit features obscure toughened double glazed units suitable for our external KXT with the formal features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure toughened double glazed units suitable for our external KXT with the features obscure to 
light Stable Door Clear Double Glazed Units 14mm Obscure
Double Glazed Units Pack. This pack of nine double Glazing 1-Light Stable Or Cottage Door Clear Toughened Double Glazing Pack. This toughened low-emission glass....Ouick Ref No. 61551 View One Light Door Clear Double Glazing 1-Light Stable Or Cottage Door Clear Toughened Double Glazing Pack. This toughened Double Glazing Pack. This toughened Double Glazing Pack.
double glazing pack is suitable for our ranges of cottage and stable doors and is manufactured with clear safety glass. This double glazing pack consists of 1 ...Quick Ref No. 61636 View One Light Door Clear Single Glazing Pack. This laminated single glazing pack is a fast delivery option,
suitable for our ranges of small one light doors and is manufactured with clear laminated safety glass. This sin... Ouick Ref No. 61571 View One Light Door Obscure Double Glazing Pack. This toughened double glazing pack is suitable for our ranges of cottage and stable doors and is
manufactured with your choice of obscure safety glass. This double glazing Pack. This toughened Obscure Single Glazing Pack is suitable for our ranges of cottage and stable doors and is manufactured with your choice of
obscure safety glass. This single glazing ...Quick Ref No. 61570 View Pattern 10 Door Clear Double Glazed Unit 14mm Clear Double Glazed Unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61830 View Pattern 10 Door Clear Single
Glazing 6mm Clear Single Glazing. This glass pack is for use with our internal Pattern 10 doors. Each pane is 6mm thick and is made from clear bouble Glazing Pack. These glazing units are manufactured with low
emission toughened glass and filled with Argon gas. They are specifically manufactured for our Part L compliant Pattern 10 Doors Part L Dbscure Double Glazing Pack. These glazing units are manufactured with your choice of
obscure low emission toughened glass and filled with Argon gas. They are specifically manufactured for our Part L compliant Pattern 10 d...Quick Ref No. 62709 View Pa
doors. This single glazing pack consists of 1 single glazing pack is required per Pattern 10 Doors Obscure Toughened Single Glazing Pack. This toughened Single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing Pack are the single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors. This single glazing pack is suitable for our ranges of Pattern 10 doors.
specifically manufactured for our Part L compliant Pattern 20 French doors Clear Double Glazing Pack. This toughened double glazing pack is suitable for our ranges of Pattern 20 & E20 French doors. This double glazing pack is for use with
our external Pattern 20 doors. Each unit is 14mm thick...Quick Ref No. 65579 View Pattern 20 French Doors Obscure Double Glazing pack is suitable for our ranges of Pattern 20 & E20 French doors. This double glazing pack is for use with our external
Pattern 20 doors. Each unit is 14mm thi...Quick Ref No. 65581 View SA Door Clear Double Glazed Units 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61549 View SA Door Obscure
Double Glazed Units 14mm Obscure Double Glazed Units 14mm Clear Double Glazed Units 14mm Clea
double glazed units is for use with our external Tuscany doors. Each unit is 14mm Obscure Double Glazed Units 14mm Obscure Double Gl
thick and features obscure toughened low-emission glass....Quick Ref No. 61973 View Victoria Door Clear Double Glazed Units 14mm Clear Double Glazed Units 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61691 View
Victoria Door Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Obscure Double Glazed Units 14mm Clear Double Glazed Units 14mm Clear Double Glazed Unit Pack.
This pack of 9 double glazed units is for use with our external Warwick Doors. Each unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61680 View Warwick Doors. Each unit is 14mm thick and features clear toughened low-emission glass....Quick Ref No. 61680 View Warwick Doors.
unit is 14mm thick and features obscure toughened low-emission glass....Quick Ref No. 61679 View Windsor Door Clear Double Glazed Units 14mm thick and features clear toughened low-emission glass....Quick Ref No.
61829 View Windsor Door Obscure Double Glazed Units 14mm Obscure Double Glazed Unit and features obscure toughened low-emission glass....Ouick Ref No. 61828 Share copy and redistribute the material in any medium or format for any
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