



ARM-R-LITE Door Manufacturing Co., Inc.

Overhead Sectional Door

Glass Guide



Due to our unique construction method, Arm-R-Lite is able to provide our customers **with unlimited customization opportunities**. With regard to the different components that make up our overhead doors, glass type is by far the most flexible medium with the largest array of customization.

Approaching glass and considering which kind or type of glass you will need for a specific project can be overwhelming. This guide will seek to break down the components of “glass type” into two distinct spheres: Basic Glass Types and Custom Glass Types.

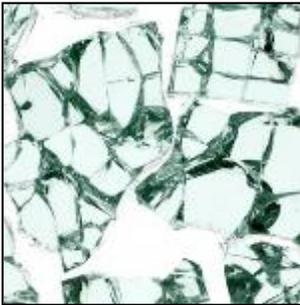
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Basic Glass Types



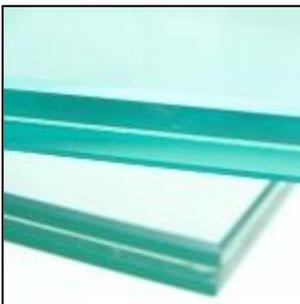
DS Glass

DS or Double Strength Glass is considered “standard” window glass. 1/8” or 1/4” thicknesses are available. DS Glass is not a safety glass and will shatter as a result of impact. We do not recommend DS glazing for projects where a garage door will be exposed to the public or used in homes due to its characteristics and risk of injury when broken. It is commonly used on gas station or service station garage doors.



Tempered Glass

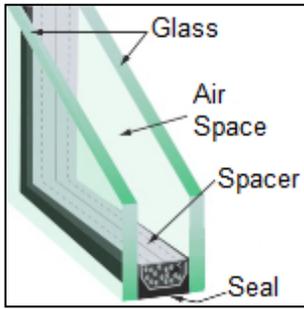
Tempered glass is a heat treated glass product and is considered safety glass due to its breakage performance. The glass is heated then rapidly cooled resulting in a higher resistance to mechanical (impact) and thermal stresses as well as its fragmentation characteristics. If tempered glass is broken, it will fragment into pebble-sized pieces limiting the risk of injury. Tempered glass is subject to roller wave distortion which is not considered a defect.



Laminated Glass

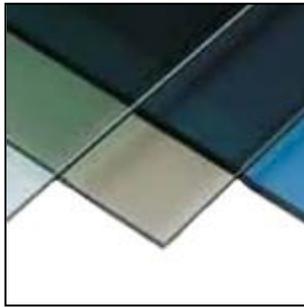
Laminated glass consists of at least two or more glass sheets bonded together with a PVB, EVA, resin, silicate, or a gel interlayer. These materials bond the sheets together resulting in a high performance product. Laminated glass is considered safety glass.





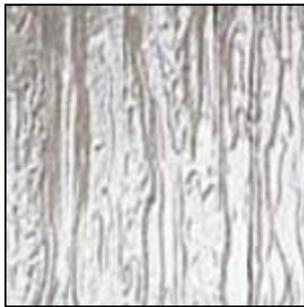
Insulated Glass

An insulated glass unit is made up of two sheets of glass separated by a spacer and filled with dehydrated air or gas. The goal of double glazing is to achieve a higher level of thermal insulation than single glazing. Coatings and gas types can be used in combination with insulated glass to achieve specific U-values and/or a SHGC. Insulated glass is available in 7/16", 5/8", and our exclusive 1" thick units.



Tinted Glass

Tinted glass offers the advantage of privacy as well as some insulating benefits by limiting the amount of light transmitted through the glass. Tinted glass is treated with either film or coatings which can block or reflect different amounts or types of light. Arm-R-Lite offers standard bronze, gray, and green tints. For custom tints, please contact our customer service and sales department for availability.



Patterned Rolled Glass

Patterned rolled glass contains a specific design feature on one or both sides of the glass. This is achieved by passing the sheet between textured rollers at the time of manufacture. Common designs are "cascading water" as shown here or a "dappled" texture such as shower glass.



Spandrel Glass

Spandrel glass is opaque and diminishes the transmittance of light. Spandrel glass is most commonly used on walls and is not intended to be used in vision applications. Striations and pinholes on the back painted area can be detected and are not considered to be a defect. Due to the increased demand for spandrel glass on garage door applications, Arm-R-Lite offers a "double pass" for the back painted area to minimize the appearance of striations and pinholes.



Wire Glass

A wire mesh is incorporated into the glass unit by laminating it between rollers to form a "sandwich" structure. The internal wire is designed to hold the pieces of glass in place in the event of an impact or breakage.





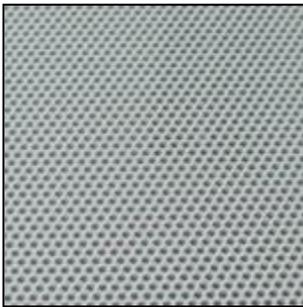
Sandblasted Glass (*frosted*)

Sandblasted glass is considered a frosted glass type which has undergone a sandblasting treatment. Sandblasting is normally uniform in garage doors, however multi-relief motifs can also be applied. Please consult our customer care and sales department for custom designed sandblasted glazing options.



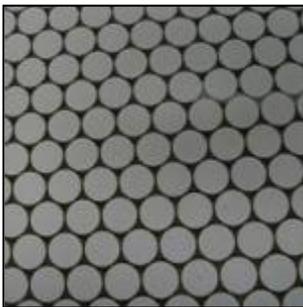
Acid Etched Glass (*frosted*)

Acid-etched glass is considered a frosted glass and may be wholly or partially matte in appearance. Acid etched glass is smooth with a translucent appearance. Acid etched, like sandblasted, is normally uniform in garage doors (no designs), however custom options are available through Arm-R-Lite.



Silk Screen Glass

In a silk screen glass unit an enamel coating is applied to part of the glass using a screen. The product is then vitrified during the tempering or strengthening process.



Ceramic Frit Glass

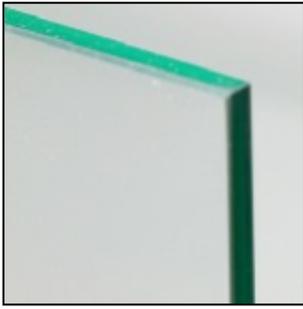
The entire surface is covered with a coating of vitreous enamel. Ceramic frits seen most commonly on garage doors are large or small diameter circle patterns. Please contact our sales and customer service team with any questions regarding custom frit patterns.



Mirror or Reflective Glass

Through a process called “silvering”, a reflective coating is applied and then protected by a second coating of paint. With regard to garage doors, a one way mirror effect is also available where you can see from the inside out but not from the outside in.





UV Blocker Glass

Arm-R-Lite can provide custom UV blocker non-coated glazing with UV protection for our glass garage doors. This UV glass type blocks out 99% of UV rays, helping to prevent valuable property or objects behind our doors from fading. Application suggestions include: car dealerships, museums, art galleries, corporate buildings, and homes.



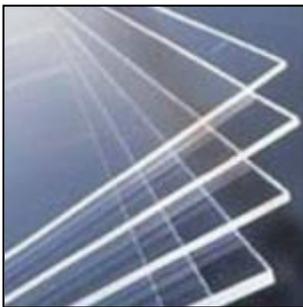
Low E Glass

Low E coatings on glass minimize the amount of ultraviolet and infrared light that can pass through without compromising the amount of visible light that is transmitted. Low E coatings are applied to one or more of the interior surfaces of insulated glass when used on a garage door application. Low E glass can reduce the amount of UV rays by up to 40%.



Low Iron Glass

Low iron glass increases light transmittance and clarity by eliminating the green tint distortion found in regular iron content glass. Low iron glass is available in clear or frosted versions. Please feel free to consult our sales staff with any questions regarding specific applications.



Acrylic Glass

Acrylic glazing is a transparent thermoplastic alternative to polycarbonate glazing and a lightweight, shatter-resistant alternative to glass. Although acrylic glazing is more prone to scratching than conventional glass, it is considered safety glass due to its shatter resistant properties.



Polycarbonate Glass

Polycarbonate glazing is a tough, transparent, lightweight, and break resistant thermoplastic. Polycarbonate glazing is considered safety glass due to its break resistant properties.





Multiwall Polycarbonate Glass

Multiwall polycarbonate glazing is lightweight and break resistant like the standard single wall polycarbonate. Available in single wall, 2-wall, 3-wall, 5-wall, or 7-wall units the multiwall polycarbonate can be frosted, clear, dappled, or colored in units up to 1” thick. Multiwall polycarbonate glazing is often used in carwash applications due to its light weight; however it does offer unique insulation properties depending on the thickness and number of walls.



Fiberglass Glass

Fiberglass glazing is a type of glass fiber reinforced plastic. It is a strong, lightweight, and corrosion resistant material often used on boathouses, salt barns, and agricultural applications. Arm-R-Lite’s standard fiberglass glazing is flat (not corrugated) with a white semi-opaque coloring. Clear or colored fiberglass is available as well as insulated fiberglass units for energy efficient projects.



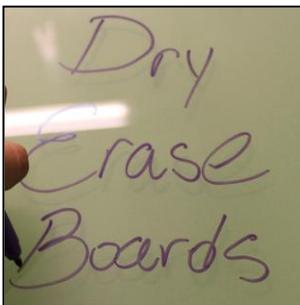
Acoustical Glass

Acoustical glazing is unique to Arm-R-Lite. Our 9/16” thick acoustical glass offers sound resistance unmatched by any current glass garage door manufacturer. With an STC rating of 40 acoustical glazing operates by reflecting noise back towards its source as well as absorbing noise energy within the glass unit.



Impact Glass

Impact glazing is often a requirement in areas prone to high wind events or applications that require extra security. Impact glazing is tested according to the guidelines of the American National Standards Institute (ANSI).



Dry Erase Glass

New from Arm-R-Lite, our Dry Erase Board Glazing is perfect for office settings where a glass garage door will be used as a partition between two spaces. This glazing can be written on by standard dry erase markers and cleans easily. Offered in clear or frosted.





Self Tinting Glass

This type of “smart glass” features a unique UV/sunlight responsive feature that reacts to direct and indirect sunlight. As the sun moves across the sky the glass heats up and cools down, lightening and darkening accordingly. Great for glass garage doors that are used for offices or recreational areas that are sunward facing for part of or most of the day.



Self Cleaning Glass

Another type of “smart glass” used on projects where sections of glazing on the overhead door are out of reach or not easily accessible for cleaning. Self cleaning glass contains a special coating that causes organic material to decay and rinse off with rain water without leaving ugly splotches or streaks.



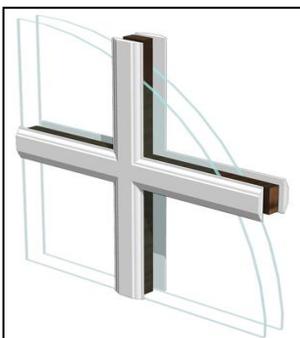
Bird Glass

Every year millions of birds fatally collide with glass windows. For projects in areas with a heavy concentration of birds or for building owners that want to take proactive steps to avoid this issue, Arm-R-Lite offers bird safe glass with attractive surface etched designs.



Acid Etched Mirror Glass

Acid etched mirror glass has soft satin finish with reflective properties. This process does not peel or discolor like films or scratch off like coatings. Available in either 1/8” or 1/4” units acid etched mirror glass is a unique design opportunity for architects looking to push the envelope in glass garage door design.



Insulated Grid Glass

Insulated grid glass is available in for insulated units only. Grids can either be installed on the inside of the IGU or on the outside providing the illusion of smaller individual panes.





Digital Printed Glass

Digital printed glass is one of the most versatile glass options available. With almost unlimited design opportunities anything that can be imagined can be printed – including multi-color images, text patterns, graduating patterns, dual images, and simulated etch ink designs. Digital print glass can also be used with low-e coatings for optimized energy performance.

ARM-R-LITE Door Manufacturing Co., Inc. is the highest quality upward acting overhead sectional garage door manufacturer in the United States. Due to our exclusive welded construction, Arm-R-Lite is able to tackle even the most unique applications.

Please feel free to contact our customer service and sales department with any questions. Our staff would be glad to help you determine the best options for your custom project.

