



ALUMINUM SECTION

ALLURE SERIES PANORAMIC WINDOW

ALUMINUM FIXED





ALLURE SERIES PANORAMIC WINDOW – ALUMINUM FIXED

1.1 DESCRIPTION

The ALLURE series - FIXED in aluminum is designed according to the waterscreen principle, offering exceptional insulation and structural performance.

1.2 MATERIALS

1.2.1 Extrusions

1. Frame

The frame will be made of aluminum profiles of alloy 6360-T5 with walls thickness from 1.30 mm to 1.40 mm, depending on the function and position of the aluminum walls.

The aluminum extrusions of the frame will be connected by a black GEON 6935 PVC tubular profile 46.3 mm wide, 15 mm high and 1.9 mm thick, serving as a thermal barrier. The PVC profile will be crimped with the aluminum extrusions mechanically to obtain an integral assembly resistant to a minimum shear of 275 kg over a length of 100 mm.

One of the two cavities of the thermal barrier will be filled with solid polystyrene to reduce air convection between the hot and cold parts of the frame, thus reducing the overall conductivity (U_g) of the window frame (if Energy Star option is selected).

The ALLURE series will use the same frame for the manufacture of exterior casement windows, exterior awning windows and fixed windows.

The window sill room will be provided with water drainage holes.

The overall assembly of the frame will have an internal height of 29.5 mm and a depth of 152.4 mm. The height of the visible part of the outer frame shall be 15 mm.

2. Glass beads

The interior glazing beads, 10.8 mm high, will be made of 6063-T5 tubular alloy aluminum profiles with 1.3 mm walls.

The glazing beads will be pressed locked, screwless installation, making it easy to change the glazing unit from the inside.

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1.2.2 Weather-stripping

A gasket, made of vulcanized thermoplastic elastomer (TPV), will be inserted by pressure into a groove adapted for this purpose on the frame, allowing an easy replacement in case of breakage.

A gasket, made of vulcanized thermoplastic elastomer (TPV) with a rigid back (Polypropylene), will be inserted in a groove adapted for this purpose on the glazing bead allowing for easy replacement in case of breakage.

1.2.3 Interior and exterior finishes

All exposed aluminum of frames and shutters will be painted with:

Duracron® Baked Enamel Color Finish:

Black K90421

White K1285

Anthracite RAL7016

Two-component polyurethane acrylic paint available.

Anodizing available.

Possibility of different interior and exterior colors.

Color development available.

Duracron® baked enamel finish available.

1.3 PRODUCTS

1.3.1 The frame joints will be machined with precision, assembled and sealed at the factory so that they are watertight and represent clean lines.

1.3.2 A 3° slope at the windowsill will ensure that accumulated water is discharged to the outside of the window frame.

1.3.3 The frame will be designed to accommodate 24.7 mm thick double sheet glass sealed units.

1.3.4 Sealed units will be surrounded by a black flexible PVC channel and press-fitted into the sash extrusions.

1.3.5 Two (2) oblong drainage holes will be drilled on the frame and on the shutter, at the right locations, to allow water to drain off, satisfying the waterscreen principle.

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- 1.3.6 The opening shutters will each be equipped with:
- One (1) set of concealed stainless-steel hinges.
 - Two (2) multipoint latch locks
 - One (1) operating crank.
 - One (1) concealed sash deflection limiter, located at the head of the window, if the width of the window is greater than 914 mm.
- 1.3.7 For safety reasons, the flaps, screws and parts of the mechanisms cannot be removed from the outside.
- 1.3.8 The windows shall be accurately and squarely constructed with a maximum tolerance of plus or minus 1.5 mm for windows measuring 1.8 m or less diagonally, and plus or minus 3 mm for windows measuring more than 1.8 m.
- 1.3.9 The interior frame extrusions will be pre-drilled at the factory for mechanical attachment to a building structure.
- 1.3.10 If there are several sections in the same window, all sections will be bordered by the same frame using an aluminum mullion mechanically attached to the frame (Structural mode).
- 1.3.11 The glass will be replaced from the inside.

1.4 GLAZING

- 1.4.1 The sealed unit shall consist of two (2) transparent single sheets of glass 3 mm thick or more, separated by an argon-filled space obtained by means of a non-conductive spacer with integrated desiccant.
- 1.4.2 The inner glass sheet of the sealed unit (face 3) shall be made of low emissivity glass. This sizzling process is used in combination with argon gas to improve the energy efficiency of the window.
- 1.4.3 The spacing will be approximately 18.7 mm of air (variable depending on the thickness of the glass sheets) to give 24.7 mm thick sealed units.
- 1.4.4 Sealed units will be surrounded by a black flexible PVC channel and press-fitted into the sash extrusions.
- 1.4.5 A free space of approximately 3 mm will be left at the perimeter of the sealed unit allowing the necessary clearance for water drainage.
- 1.4.6 The thickness of the glazing will meet the requirements of the current National Building Code.

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1.5 ASSEMBLY WITH AN OPENING OR ARCH

The window frame will have a frame depth of 152.4 mm.

The exterior and interior posts will be made of aluminum profiles of the same finish as the window, assembled by insertion and sealed.

The outside angle will be 45° or 22°.

The interior space of the assembly post will be filled with an insulating material and sealed to prevent water infiltration.

The modules of the bay or bow window will be assembled at its perimeter on 19 mm plywood with zinc-plated steel screws.

1.6 OPTIONS

1.6.1 Glass

Double-sealed glass composed of two (2) sheets of clear glass 4 mm, 5 mm or 6 mm thick.

Bronze tinted glass, grey.

3 mm, 4 mm, 5 mm and 6 mm thick tempered glass.

Frosted or sand glass.

6 mm glass, brocaded or laminated.

6 mm glass with thermoformed surface.

Any other glass available for the manufacture of sealed units...

1.6.2 Frame

J-shaped inner frame extension molding made of 14 mm extruded aluminum. Mechanically installed on the inside frame of the window to receive gypsum or wood frame to be painted or covered with PVC.

38.1 mm or 63.5 mm interior frame extension molding, made of aluminum extrusions and mechanically installed on the surface of the interior window frame.

1.6.3 Tiling

The tile, made of rolled aluminum, will be sealed between the two (2) sheets of glass of the sealed unit of the window.

Flat rectangular, Georgian or tubular model. Widths and finishes as available on the market.

The finish of the aluminum tiles will be thermo hardened enamel, the same color on both sides or different colors on the exterior and interior sides.

1.6.4 Muntin bar

The muntin bar surface will be applied to the outside and inside of the sealed unit, facing each other. The inside of the glazing is filled with a piece of aluminum with the appearance of a spacer.

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The muntin bar, an A6063-T5 alloy aluminum profile with a wall thickness of 1.5 mm, will be assembled on the outside and inside of the glass with a double retaining tape and sealed across its width. Available widths: 44.5 mm and 22 mm.

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1.6.5 Hardware

An opening mechanism of the controlled stroke type (limiting the opening to 100 mm) may be installed for safe ventilation.

1.6.6 Screen mesh

The wick will be made of fiberglass or aluminum.

A rolled aluminum screen frame option will be available.

1.7 CARING INSTRUCTIONS

You will be given a sheet with instructions for cleaning and maintaining the windows when your order is delivered.

1.8 GUARANTEE

A manufacturer's warranty certificate will be given to you upon delivery of your order. The manufacturer reserves the right to modify the characteristics of its products without notice.

