BLUESTAR
ARCHITECTURAL GLASS

Insulated Glass Installation Instructions

1. Store glass off floor in ventilated area. Units stored loose should be supported on a wedge which is at 90° to the plane of the glass. There should be ventilation space between each unit. Do not rotate the IGU without using a turning block.
2. Units must be installed in VERTICALLY glazed openings that are square, in plane, free of any obstructions, and structurally adequate.
3. Still deflection with unit installed must not exceed 1/8". Glazed sash deflection under windload must not exceed unit edge dimension divided by 175 (maximum deflection = 3/4").
4. All exterior sash or gasket corners must be made and remain water-tight.
5. The sill member of all glazed openings (metal sash, wood sash, structural gaskets, vinyl door gaskets, and vinyl window gaskets) must have three (3) weep holes, each 0.110 square inch or larger with one located at the center and one each 4" inboard of the unit corners.
6. The sash must provide 1/4" unobstructed edge clearance around the units that exceed 48" in either of its dimensions and 3/16" edge clearance around smallers units.
7. Excluding Structural Gasket Glazing and Vinyl Door & Window Wrap-Around Glazing, the glazing rabbet width must be the total of the unit thickness plus 3/16" indoor and 3/16" outdoor clearance floor glazing seals. Shims for centering unit in a rabbet width should be 30 to 40 Shore A durometer neoprene 5/32" thick and of a height to provide a 1/8" bite on the unit edge. Shims may be continuous or 3" long, spaced exactly opposite indoors and outdoors every 24".
8. Unit edges must be recessed 5/8" plus or minus 1/8" into the glazing rabbet.
9. Interior drapery or blinds must be a minimum of 2" (preferably 6") behind the indoor glass surface and installed with 2" air circulation freedom at the head and 1" circulation freedom at the sill. Heating registers must be located on the roomside of all shading material with air flow away from the glass area.
10. Unit edges or corners must never contact the building floor. Rotate units only on approved corner rolling blocks. A design is available upon request.
11. Never drift or raise unit using edge pry bars. Use suction cups.
12. Units must be glazed on two 80 to 90 Shore A Durometer, 1/4" thick solid rectangular neoprene setting blocks that are 1/8" wider than that units thickness. Each setting block length to be based on unit weight times 0.02", with a minimum length of 4". Locate the setting blocks at the eighth point or quarter point of the unit width but always at least 6" inboard of the unit's corner.
13. Glazing material and edge blocks must not fill the edge clearance voids at the jambs or head. If anti-walk blocks are used, they should be one per jamb, 6" long of 30 to 40 Shore A durometer neoprene, located at approximately 1/3 of the unit height. A minimmum 1/8" clearance must still be available between unit edge and anti-walk blocks.
14. Structural Gasket Glazing must have a continuous organic sealant applied to the top 1/8" of the outdoor glazing legs. Setting blocks should be 1/8" high.
15. In Wedge Gasket Glazing, the wedge must be inserted in a minimum of a 4" section per insertion starting at the mid-point of the unit's width and height. Wedging should never be started at the corners.
16. Pressure Wall Gaskets must apply their sealing pressure onto the glass UNIFORMLY 1/8" to 5/8" above the unit edge of not more than 10 pounds per linear inch with a maximum variation of one pound per inch. Gasket must not bear on the 1/8" marginal edge of the unit. Torque controlled wrenches are recommended for bolt tightening; applied in sequence of quarter points of the sill, then quarter points of the head, then quarter points of the jambs, and then the remaining bolts.
17. Glazing and caulking compounds containing 4% oils or solvents by volume are not compatible with unit's edge seal and must not contact the unit's edge. On major work, our lab can test your specific glazing compound for compatibility.
18. Glazing Sealants, Structural Gaskets, and Pressure Gaskets must remain resilient and provide watertight sealing for the unit's warranty period.
19. In Residential, Motel, Hotel and Apartment Installations or others where the indoor relative humidity is frequently above 70%, an indoor glazing seal as well as an outdoor glazing seal must remain water-tight for the unit's warranty period.

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