



5/8" Topside Blind

Description

A magnetically coupled tilt-only mini-blind for installation in sealed insulated glass or replaceable glass packages. The blind is controlled by an externally mounted magnet assembly, which is coupled to an internal magnet assembly. Moving the outer operator to the left or right will cause the blind slats to rotate.

OEM between the glass (BTG) mini-blinds when installed in an insulated glass (IG) package can be used in door window, regular window and office partition applications. The blinds offer convenient control of light level and privacy by tilting the slats to your preference. Gone is the need to periodically dust the blinds. The outer glass surface can be easily wiped and cleaned without affecting the blind. Since they are internally mounted, damage to the blinds from everyday use is avoided.

Definition of Blind

Requires a 0.625" internal glass airspace. Slat is aluminum alloy 6010-T8, size 12.5 mm (0.500") x 0.008" painted with a polyester ultra violet high resistant finish. Head and bottom rail profiles are 6063-T5 aluminum alloy painted in coordinated color with the slat. The extruded top spacer is aluminum alloy 6063-T6. High temperature plastics are also provided. The ladder tape and lift cord are thermally fixed polyester and are UV resistant. The sintered neodymium-iron-boron magnets have a produced energy of $Bh_{max} = 35$ Mega Oersteds and a maximum working temperature of 248 °F.

The low profile operator extends 0.300" from the glass and is intended for use in sliding doors and double hung windows or any other application where clearance is an issue.

Glass Package (IG) Producer / Manufacturer Requirements

Maintain 0.625" air gap for blind operation. Ensure width and height rectangular internal glass dimensions. Install blind into IG package consisting of glass, box spacer (OEM Shades provides the top spacer), corner keys and sealant. Identify materials and fabrication process to OEM Shades to ensure compatibility with blind.

Ensure IG or replaceable glass package maintains the internal geometry necessary to allow slat rotation during environmental temperature and pressure excursions. Glass

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deflection (internal bending) must be eliminated to allow proper blind operation. Possible methods to maintain acceptable air gap include pressurization or the installation of capillary tubes.

The blind must be installed in the vertical position for proper operation.

Tolerances

Size of blind is typically glass size less 7/8" for both width and height. This cutback is derived as follows: spacer bar width 5/16" (quantity of 2) and sealant of 1/8" (both sides) for a total of 7/8". The spacer bar must have a thickness of 5/8" to maintain air gap. A space of approximately 1/8" is left on each side between the slats and spacer to allow for free movement of the system.

The production tolerance is +0 / -1/16" for the width of the blind. The tolerance for the height of the blind is +1/8" / -0.

Installation Instructions

1. Install the blind into the IG spacer bar frame prior to mounting and sealing the two glass lites. After filling the side spacer bars with desiccant material, install corner keys and drill a 5/32" hole approximately 1/4" from the bottom end of the spacer bar. Drill 1/4" deep, going only through the inside layer on the spacer bar and into the plastic corner key. Drilling into the corner key will ensure that the desiccant material can not leak out.
2. Assemble all four spacer bars. The top spacer bar is supplied by OEM and is shipped attached to the headrail. It may be necessary to use corner keys that are undersized by 1/32" for the top spacer, since it is an extruded piece with a wall thickness of 0.025". Insert the pins located on the bottom rail into the previously drilled holes near the bottom of the side spacer bar.
3. Slide the magnet operator to verify correct operation.
4. The blind is now ready to be sealed. Various sealant methods can be used. It is critical that the 5/8" inside airgap is maintained so as not to interfere with proper blind operation.
5. Once sealed, the outer magnetic slide assembly can be installed by removing the adhesive strips and applying to the glass, making sure that the operator is aligned with the opening in the internal headrail.

Warranty

Blind repair or replacement only:

10 years when not exposed to temperatures greater than 220 °F

Outside operators (0219L) – 1 year