

TECHNICAL BULLETIN

All Glass Entrances Installation Guidelines**DOORS:**

- 1 It is essential that the pivot centerline and closer axle centerline be aligned and plumb.
- 2 If necessary to drill or tap holes in the rail, be certain that you do not drill or insert the tap deeper than the thickness of the rail extrusion. Otherwise you risk contacting the glass beyond and consequently causing instant or delayed breakage. Likewise, **SELECTION OF PROPER LENGTH SCREWS IS VERY IMPORTANT.** Prior to such fabrication it is recommended that the outer rail extrusion be removed from the glass by removing all mounting screws inside the rail and slide the outer rail off the inner rail channel. Then fabrication can be performed on the rail, after which it can be re-secured to the glass by reversing the steps taken to remove it.
- 3 Most doors are supplied with closer arms installed. If customer is supplying closers and pivots it will be necessary to install closer arm and pivot receptor in door rail (using adapter plate shims if necessary). When installing door, in case of an overhead closer, remove top and bottom end caps and slide door onto bottom pivot and top closer axle at the same time. During this process it is important that the bottom rail not drag as it may result in damage to the rail, end cap, or metal finish.
- 4 Prior to removing end caps, determine that you have the proper pivot centerline distance from end of door to insure adequate jamb clearance. Closer arm and pivot blocks are set for a standard pivot distance of 2-5/8" from the edge of door. This is adjustable by means of the pivot centerline adjustment screw found at the end of the rail, accessible by removing the end cap. Pivot centerline can be moved simply by rotating the one adjustment screw either clockwise or counterclockwise. Adjustments can easily be made prior to, or after hanging door. **CAUTION: NEVER ALLOW DOOR TO CLOSE RAPIDLY WHEN CLEARANCES HAVE NOT BEEN CHECKED.**
- 5 When installing pull bars avoid any chance for contact between metal and glass. **GROMMETS OR SPACERS FOR PULL BARS MUST BE OF A RESILIENT MATERIAL.**

SIDELIGHTS:

- 1 All sidelights with top and / or bottom rails will be furnished KD or unassembled (the rail and glass separate). When a bottom rail is furnished KD it is necessary to drill holes through the bottom of the glass pocket in the rail and the sidelight track as required for fastening rail to floor; then drill corresponding holes in the floor for anchors. Use screws of an adequate length to pass through the hole in the bottom of the glass pocket, through the sidelight track, and into the anchor. After the rails are fastened to the floor, repeat the same exercise at the head, if top rails are furnished.
- 2 Care must be taken to assure that all anchors are firmly affixed to load bearing structural members at the head.
- 3 **THE USE OF SETTING BLOCKS IN THE GLASS POCKET AT THE SILL IS NECESSARY.** Unless otherwise specified, the glass will be sized such that there will be 5/8" glass coverage top and bottom. The proper height setting block must be selected for the bottom rail or channel in order to fill the balance. By sizing the glass in this manner and using the proper height setting block it allows installation of the glass to be achieved by placing the top edge of the glass in the top rail or channel and then positioning the bottom of the glass over the bottom rail or channel and dropping into place.
- 4 Roll-in gasket is provided in stock lengths (if 1/2" glass is used) to be field applied after glass is installed.

HEADERS:

1. When using a two-piece header with a snap-in face plate do NOT fasten, affix, or in any manner attach locks, door stops, or other hardware or objects solely to the cover plate without first anchoring the cover plate through the top of the base header to a structural member above. The faceplate is not designed to support hardware or other objects without proper and adequate anchoring. Anchors should include adequate support or filler between the face plate and top of base header to prevent lateral movement of the face plate.

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2. When using a two-piece header with a snap-in face plate do NOT fasten, affix, or in any manner attach locks, door stops, or other hardware or objects to the side(s) of the base header without first reinforcing the inside of the header with proper and adequate reinforcing that is anchored through the top of the base header to a structural member above. Any forces exerted on such hardware or objects must be transferred to an adequate structural member above. In addition, the face plate needs to be mechanically fastened to either the base header or the reinforcing material within.
3. Failure to adhere to these precautions may case bodily injury.

CARE:

- 1 Regular maintenance (at least every 6 months) is advised, principally lubrication of any moving parts, particularly the top pivot. Retightening of closer alignment screws, pivot and closer mounting screws, closer arms and pivot blocks, and fasteners for any moving parts should be performed on a regular basis. Pull bars should be monitored for any movement and tightened as necessary.
- 2 If the metal finish is anodized aluminum, wash periodically with detergent and water, using a soft cloth. Mild abrasive cleaners can be used for more difficult deposits. Refer to Virginia Glass Products Corp's Technical Bulletins TGD-5, *Anodized Finishes*, for more information.
- 3 If the metal finish is a clad finish, it will be provided with a protective vinyl covering to prevent scratching from normal installation handling. It is not intended to prevent tarnishing of brass or bronze finishes. This protective layer of plastic should be removed as soon as possible and the material cleaned to prevent staining and/or extra labor required in cleaning of the material.
- 4 As brass and bronze **will** discolor, corrode, stain, and / or tarnish from various causes such as oxidation, chemical exposure, acid rain and atmospheric conditions, periodic cleaning of this metal **will** be necessary. A commercial brass/bronze cleaner is recommended for cleaning and polishing of the metal; also you may wish to use a commercially accepted lacquer to help retard the speed at which the rails **will** tarnish. Refer to Virginia Glass Products Corp's Technical Bulletin TGD-2, *Maintenance of Brass and Bronze Metal Finishes*, for more detailed care and cleaning instructions.
- 5 For proper maintenance of the glass refer to Virginia Glass Products Corp's Technical Bulletin TG-9, *Glass Cleaning*.