

## PRODUCT TIPS

1. Screen hinges are designed to be detachable to allow seasonal screen removal, therefore orientation of the hinges must be considered when selecting and mounting hinge components.
2. The Stay Bar utilizes a loose rivet at the sash bracket to allow easy sash disconnection for maintenance. Orientation of the sash bracket and pin must be considered to avoid the pin falling out and becoming lost.
3. Friction hinges and Stay bars provide only limited resistance to wind driven sash movement. Push out windows using this hardware should not be left unattended in windy conditions.
4. A construction handle (PN 23377) is available for operation of the locking systems without having the decorative handles in place.
5. The tongued version of the "classic" or "retro" handles are intended for aesthetic purposes only, they are intended to be used in conjunction with a locking bar system to carry weather and forced entry loads applied to the sash. Use of these handles as single point locks is not recommended.
6. We recommend that when designing a casement window, the sash width should be limited to no greater than 66% of the sash height. A sash width that exceeds 66% could develop sash sag over the life of the window. Refer to Technical Note # 3 for more information dealing with sash sag prevention.
7. The Concealed Casement Hinge with snap stud attachment was designed to be used on a casement window only. Under no circumstances should a casement hinge with a snap stud be used on an awning window.
8. With the flat bottom track, screw heads will be raised above the track when installed. Our Delrin shoe now has a higher bridge to clear screw heads (.060" high).
9. A standard 3/8" wrench can be used to adjust a hinge equipped with the adjustable stud; however, this will require detaching the support arms from the track. To adjust this hinge without detaching the support arms it is necessary to use our slim-line wrench #31887
10. When selecting mounting screws for hardware, coating compatibility is one of the most important criteria. For best

corrosion resistance the coating on the screws should be the same as the coating on the hardware. For more information see Tech Note #11.

11. On some window designs, binding can be experienced on the hinge side of the window between the outermost edge of the sash and the jamb. This problem often occurs when switching from standard to an "egress" hinge. If a window system is designed to work with an "egress" hinge, the window system will work with all other Concealed Casement Hinges. When binding is encountered, three solutions are available: a) move hinge location toward outside of sash, b) increase the clearance between the sash and jamb, and c) decrease the thickness of the sash.

## **ARCHITECT SPECS**

Push out window hinges shall be provided which allow easy adjustment of window position and maintain position in light wind conditions. The locking system will provide a craftsman period aesthetic with hidden multiple security points. The Stay bar must allow a 90° open sash projection and not interfere with the screen in any position.