

Overhead Door Holders/Stops

Overhead Door Controls

The best door control device is one that operates overhead, with an arm functioning from the jamb to the top of the door. When the door stopping or hold-open does not exceed 110°, this device is by far the most efficient.

The overhead holder and stop is **out of the way**, in contrast with floor or wall-mounted stops, which can be a stumbling hazard and are vulnerable to damage by accident and vandalism.

Glynn-Johnson overhead holders and stops should **always** be used on doors furnished with door closers, as closers are **not** door stops and should not be expected to perform that function. Glynn-Johnson overhead stops are designed to **protect** door closers from violent openings.

Selecting Degree of Hold-Open or Stop

Glynn-Johnson overhead holders are designed to function effectively from 85° to 110°. When conditions permit, we recommend the minimum degree of hold-open be set at 95° to put the door knob, pull and panic hardware beyond the flow of traffic.

When selecting the degree of Hold-Open for doors opening back-to-back, or against a wall, please note all Glynn-Johnson overhead holders have shock absorbers which ‘give’ approximately 5° – 7° beyond the hold-open or initial stop point.

The concept of dead stop templating means that the degree of opening be set 5°–7° less than the point of required dead stop to accommodate the compression of the shock absorber.

Door and Frame Reinforcement

Glynn-Johnson overhead holders and stops are fabricated from top quality brass, steel and stainless steel materials, and are designed to function even under constant heavy-duty abuse. Therefore, it is essential that all doors and frames be adequately reinforced to provide proper anchorage for the overhead stop.

For metal doors and frames, we recommend reinforcement be a minimum of 3/16" thick, 1-1/2" wide and 12" long to effectively distribute the load.

For wood doors and frames, we stress the importance of making them strong enough to provide proper anchorage for the door holders.

For reinforcement details, refer to individual templates for each overhead stop.

Definition of “Door Opening”

Glynn-Johnson defines the terms “door opening” as the actual width of the door opening, from jamb to jamb, not just the width of the door. Refer to the chart below, for example, and you will find that a 45" opening would require a size 5 holder if the door is hung on butts or offset pivots.

You will note also that, regardless of the style or series of holders, Glynn-Johnson has standardized the size of holders and stops for all openings, combining the size in the model number. The third digit in all models designates the size. If any further information is required on sizing a holder or stop, contact Glynn-Johnson or your local representative for assistance.

Butts/Offset Pivots¹

Size	Concealed Series			Surface Series				
	100	410	Door Opening	70	79	81	90	450
1	101 ²	411 ²	18" – 23"	–	–	–	–	451
2	102 ²	412 ²	23-1/16" – 27"	702	792	–	902	452
3	103	413	27-1/16" – 33"	703	793	813	903	453
4	104	414	33-1/16" – 39"	704	794	814	904	454
5	105	415	39-1/16" – 45"	705	795	815	905	455
6	106	–	45-1/16" – 54"	706	796 ³	816	906	–

¹ Refer to individual catalog pages for further details and for information on center hung applications.

² These sizes not available for use with offset pivots.

³ 796 unit may be templated for use on doors wider than 54". Contact factory with specific information on door frame construction.

Installation Methods

Door Mounting Hardware

Mounting templates for all series holders show various types of hinging methods as well as various degrees of opening. To accommodate the overhead stop to the various mounting methods requires a simple shifting of dimensions A and B. To be assured that reinforcement and mortising are in the proper location, be sure to secure the proper templates from your Glynn-Johnson dealer. These templates include all necessary information for reinforcing door and frame, complete installation instructions for the various mounting methods and the degree of opening required.

Concealed

Concealed overhead door holder installation requires that the jamb bracket be mortised flush with the bottom of the jamb. The arm and channel must be mortised into the door so the arm is flush with top of the door. A cutout made for the arm on the stop side of single acting doors as in the sketch. Double acting doors require a cutout for the arm on both sides of the door as shown in the sketch. Hollow metal doors must be reinforced at the top of the door to provide necessary strength for the channel. Hollow metal frames must be reinforced in the jamb to provide strength for the jamb bracket. Strength of wood frame and door must be adequate for the holder specified. Accurate template drawings for each holder give complete reinforcement and mortising specifications. They are readily available from your Glynn-Johnson representative.

Surface Type

Surface mounted overhead door holder installation does not require mortising of jamb or door. The jamb bracket is surface mounted on the stop of the frame. The channel is also surface mounted on the face of the door. Hollow metal doors and jambs must be reinforced to provide necessary strength for the holder specified. Strength of wood doors and jambs must also be adequate for the holder. A typical surface mounted installation is shown in Figure 1 where jamb bracket is fastened to the stop. Angle jamb brackets are available for hinge side mounting (Figure 2) and for use with rabbeted doors or flush transom installations (Figure 3). Jamb brackets with special shims for use on jambs with blade stops are also available (Figure 4). Advise stop height and the appropriate shim kit will be provided.

