

## 45 – 90 Minute Fire Rated Frame

### Welded Frame for Bolt-in Installation

- Configuration:
  - Standard 5 ¾ Jamb depth
  - Factory welded corners
  - Frame shipped with spreader bar at the bottom of the frame
- Items included for installation:
  - Firestop shims
  - 3/8" expansion bolts
- Rough Opening Requirements:
  - Masonry
  - Opening height must be at least ¼" higher but not more than 3/8" higher than the overall height of the frame
  - Opening width must be a ½" wider but not more than ¾" wider than overall width of the frame
- Clearances:
  - Insure frame is properly set so that the maximum clearance between the top of door and frame as well as each vertical edges of the door and frame do not exceed 1/8".

- Installing the frame when welded construction is supplied:

Position the frame flat on the floor in front of the opening it is to be installed in. Carefully remove the spreader bar from the bottom of the frame. Stand the frame up and slide frame into opening. Check clearances between the frame and the opening to be sure they are within the tolerances listed above. Center and plumb frame in wall then mark the locations for the expansion bolts through the expansion bolt holes in the frame. Remove frame from the opening and drill the holes in the masonry for the expansion bolts. Once all the holes are drilled slide the frame back into the opening. Starting with the hinge side insert the expansion bolts through the frame into the holes in the masonry. Do not tighten yet. Check the hinge jamb for plumb and adjust by sliding the supplied firestop shims between the frame and the masonry opening just above each expansion bolt. Check to be sure the margin between the opening and the frame is correct then start to tighten the expansion slightly. Check frame for square and margins on strike side. Adjust as necessary.

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- Next place another set of firestop shims just under each expansion bolt on the hinge side and tighten all bolts on the hinge side of the frame. Once the hinge side is secure insert the expansion bolts on the strike side and follow the same shimming process as used on the hinge side. Use the shims to adjust the frame opening to maintain a consistent opening size from the top to the bottom. Door opening in the frame can be no more than  $\frac{1}{4}$ " wider than the door to be installed. Once the frame is securely bolted in remove the spreader at the bottom of the frame. Using a fine tooth saw, such as a hack saw, cut off the excess shims sticking out past the face of the frame. To complete the frame installation two beads of fire caulk, need to be placed around the entire perimeter of the frame on the door side. The first bead needs to be injected between the back of the frame and opening wall filling the space approximately 1" back from the face of the frame and about  $\frac{1}{2}$  the distance to the frame face. Allow the first bead to cure enough so that it will not move when applying the second bead. Before applying the second bead inspect the first bead for any voids and force them full of fire caulk before filling the rest of the space with the second bead. Please see detail drawing "DD304".

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