

Karona Fire Door Installation Instructions

20 Minute Neutral Pressure

1. **Trimming** for height may be done on the bottom rail only. Maximum trim of 3/4" (0.75") allowed on site.
2. **Surface mounted hardware** must be attached with through bolts.
3. A maximum of 1/8" (0.125") **gap** is allowed between the door and frame or leaves of a pair.
4. Do not remove, cover, or paint over the attached **fire label**.
5. If a **continuous hinge** is used, the label shall be placed on the top of the door.

20 Minute Positive Pressure, 45/60 Minute Positive Pressure, 90 Minute Positive Pressure

1. **Trimming** for height may be done on the bottom rail only. Maximum trim of 3/4" (0.75") allowed on site.
2. **Surface mounted hardware** must be attached with through bolts.
3. A maximum of 1/8" (0.125") **gap** is allowed between the door and frame or leaves of a pair.
4. This door does not require the application of an additional **edge-sealing** system.
 - * A fire rated smoke and draft control gasket shall be installed for a smoke rating. Must be UBC 7-2-1997 approved.
5. Minimum of a 16 gauge welded steel **frame** is required. GP Firestop Plus or other UBC 7-2-1997 approved **frames**.
6. There are no special hardware installations allowed.
7. Do not remove, cover, or paint over the attached **fire label**.
8. If a **continuous hinge** is used, the label shall be placed on the top of the door.
9. A positive pressure approved **closing device** must be used in all applications.
10. Approved **viewers** may be installed according to manufacturers instructions.
11. **Protection plates** are allowed. Maximum of 16" high using #6 x 3/4" fully threaded wood screws with 6" spacing around the perimeter of the plate

General

Fire doors are generally heavier than unrated doors and different core materials are used to achieve ratings.

1. Always **pre-drill** to 95% of the screw shank size the full depth of the screw. (see illustration A)
2. **Screws** shall be 2" minimum to 3" maximum in length for all fire door applications.
 - * If **screw removal** is necessary, a threaded insert may be required to re-hang the doors. (see illustration B)
4. A minimum of 3-4.5" NFPA 80 approved **hinges** are required on all fire door installations.
 - * 4 hinges are recommended on doors **over 84"**.

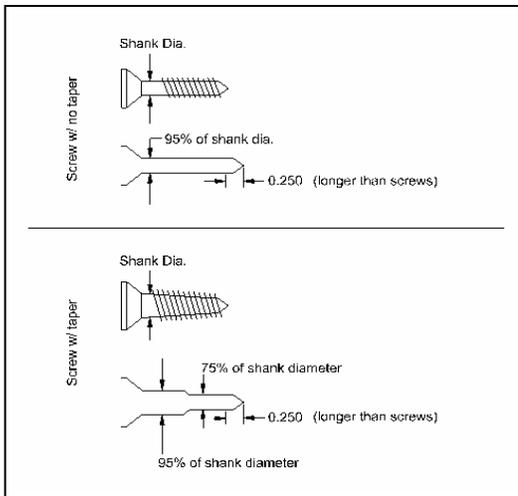


Illustration A



Illustration B

* Any deviation from these instructions can void the fire rating and manufacturers warranty.