

# Fire-rated



SOSS offers a complete line of fire-rated invisible hinges. Whether your doorway is made of wood or metal, rated 20 minutes or three hours, there is a SOSS fire-rated hinge that will comply and still give you the “uniquely invisible” hinge that you expect from SOSS.

SOSS Invisible Hinge models #418, #418SS, #220AS, #220SS, #420 and #420SS are classified in accordance with Underwriters Laboratories test standards UL10C and UBC7-2(1997).

The chart below lists the SOSS Invisible Hinges that are currently available for fire-rating.

### 420, 420SS

The SOSS Invisible #420 Hinges are specifically designed with square edges for metal doors.

The Underwriters Laboratories labeled #420 SOSS Invisible Hinges can be used on hollow metal, sheet metal, tin clad and steel composite swinging-type fire doors and frames rated up to and including **three hours**. Additionally, they can be used on wood core doors and frames rated up to **20 minutes**.

Use at least one fire-rated hinge for every **20"** of door height or portion thereof, or one hinge for every **60 lbs.** or fraction thereof, whichever calculation demands more hinges.

### 416, 416SS, 418, 418SS, 220AS, 220SS

The Underwriters Laboratories labeled 416, 416SS, 418, 418SS, 220AS, 220SS. SOSS Invisible Hinges can be used on hollow metal, sheet metal, tin clad and steel composite swinging-type fire

doors and frames rated up to and including **three hours**. They also can be used on wood core doors and frames rated up to **20 minutes**.

Additionally, they can be used on wood/plastic composite doors constructed with Georgia Pacific FS I or FS II banding for a rating up to and including **90 minutes**.

Use at least one fire-rated hinge for every **20"** of door height or portion thereof, or one hinge for every **60 lbs.** or fraction thereof, whichever calculation demands more hinges.

### 216/216FR, 218/218FR, 220/220FR, 218PT and 220PT

The Underwriters Laboratories labeled 216/216FR, 218/218FR, 220/220FR, 218PT and 220PT

SOSS Invisible Hinges can be used on hollow metal, sheet metal, tin clad, steel composite or wood core swinging-type fire doors and frames with **20 minute** ratings.

Use at least one fire-rated hinge for every **20"** of door height or portion thereof, or one hinge for each **60 lbs.** or fraction thereof, whichever calculation demands more hinges.

Special door and jamb preparation may be required for all fire-rated hinges.

**NOTE: SOSS Invisible Hinge product specifications available on request.**

Never exceed maximum door size of 4' wide by 8' tall for fire-rated doors only.

| Min. Door Thickness | Description      | Rating  | Door Material |
|---------------------|------------------|---------|---------------|
| 1 3/8"              | 216/216FR        | 20 Min. | wood or metal |
| 1 3/4"              | 218/218FR, 218PT | 20 Min. | wood or metal |
| 2"                  | 220/220FR, 220PT | 20 Min. | wood or metal |
| 1 3/8"              | 416, 416SS       | 90/180* | wood or metal |
| 1 3/4"              | 418, 418SS       | 90/180* | wood or metal |
| 2"                  | 220AS, 220SS     | 90/180* | wood/metal    |
| 2"                  | 420, 420SS       | 180     | metal         |

\* All fire rated hinges are shipped with the proper size wood and machine screws unless ordered without. Do not exceed "E" dimension.

**NOTE: The hinge side door style for 90 minute wood faced doors must be a minimum of 2 1/4" wide.**

