

MONOKOTE® FIREPROTECT™



APPLICATION GUIDE

1 Preparation for Installation

- Review applicable UL design for detailed requirements.
- In areas where noggins will be installed, steel surfaces must be clean and free of dust or loose debris.
- Ensure boards are cut to the correct size, allowing for steel tolerances and board thickness
- When securing web boards to noggins, screws should be of sufficient length to penetrate the full thickness of the noggin.
- When securing web boards to flange boards on wide flange beams and columns, and for HSS installation, the minimum required screw length is twice the board thickness.



Required Tools Checklist:

- ☐ Tape measure
- ☐ Serrated knife
- ☐ Large T-square
- ☐ Speed square
- ☐ Marker
- ☐ Pin welder
- ☐ Drill with star/cone bits
- ☐ Table saw

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Sequence of Installation Columns

STEP 1

- Cut noggins to a minimum width of 4 inches and press-fit into the web at 2'-0" centers, as shown in **Figure 1**.
- Noggins should ideally extend approximately 1/16" beyond the flange tip.
- When web depths are greater than 18", use T-shaped noggins as shown in **Figure 5**.

STEP 2

- Cut web boards to match the column depth plus two times the board thickness (use similar method for HSS – see **Figure 6**).
- Center web boards so that the overhang is equal on both sides of the column (for HSS, see **Figure 6**).
- Secure web boards to noggins using a minimum of two screws on each abutting board at joints and a minimum of two screws at intermediate noggins (see **Figure 2**); additional screws required on t-noggins. Screws to completely penetrate the noggin.
- Screws located nominal 1" from joint, nominal 2-1/2" from inside of flanges and are spaced maximum 8" OC.

STEP 3

- Cut flange boards to fit between the web boards.
- Install flange boards tightly against the column flange and between web boards.
- Fasten web boards to flange boards using screws located nominal 1" from joints, and additional screws at maximum 6" OC (see **Figures 4**).
- Screws should penetrate the flange board at approximately mid-thickness.
- For columns with flange widths or faces greater than 16", additional support is required for flange boards per the UL design.

NOGGINS FOR UP TO 18" WEB DEPTH

FIG 1

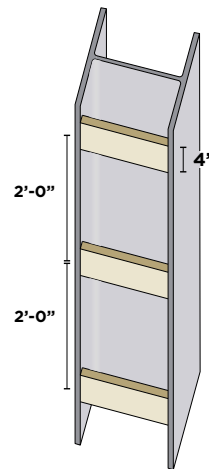


FIG 2

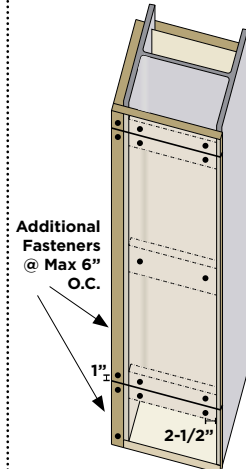


FIG 3

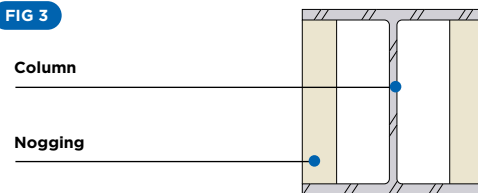


FIG 4

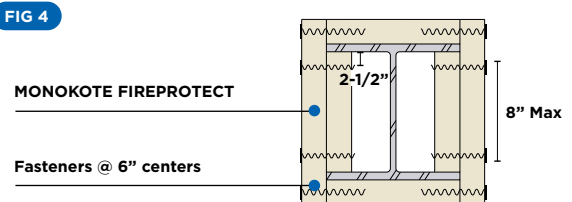


FIG 5

T-NOGGINS FOR COLUMN WEBS GREATER THAN 18"

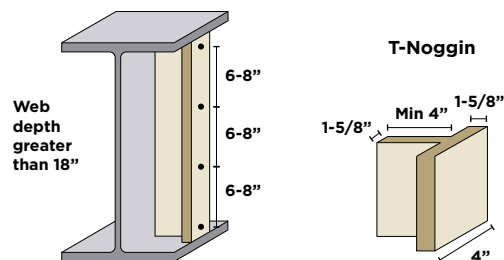
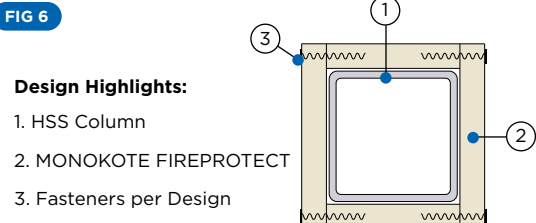


FIG 6



3

Sequence of Installation Beams

STEP 1

- Cut noggins to a minimum width of 4 inches and press-fit into the web at 2'-0" centers, as illustrated in **Figure 1**.
- Noggins should ideally extend approximately 1/16" beyond the flange tip.
- When web depths are greater than 18", use T-shaped noggins as shown in **Figure 5**.

STEP 2

- Cut web boards to match the beam depth plus the thickness of the board.
- Butt the top of the web boards against the steel deck.
- Secure web boards to noggins using a minimum of two screws on each abutting board at joints and a minimum of two screws at intermediate noggins (see **Figure 2**); screws to completely penetrate noggin.
- Screws located nominal 1" from joint, nominal 1" from inside of flanges and are spaced maximum 6" OC.

STEP 3

- Cut flange boards to fit between the web boards.
- Install flange boards tightly against the beam bottom flange and between web boards.
- Fasten web boards to flange boards using screws located approximately 1" from joints, and additional screws at maximum 6" OC (see **Figure 2**).
- Screws should penetrate the flange board at approximately mid-thickness.
- For beams with flange widths greater than 12", additional support is required for flange boards per the UL design.

STEP 4

- Fill flute voids above beam per the UL-design.

FIG 1

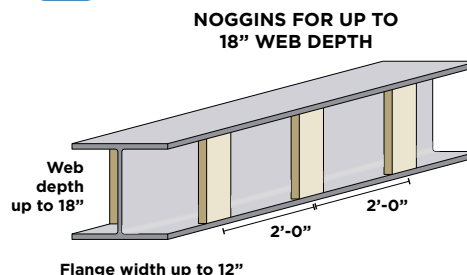


FIG 2

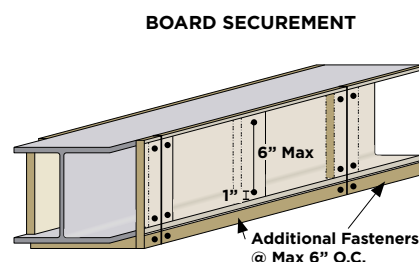


FIG 3

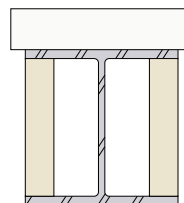


FIG 4

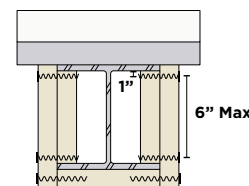


FIG 5

T-NOGGINS FOR BEAM WEBS GREATER THAN 18"

