

# MITEK POSI-STRUT Installation Guidelines



**IMPORTANT:** These guidelines are offered to the user to help with proper installation of the system and insure the structural integrity of the finished product. These recommendations are presented only as a general guide. In some instances additional precautions may be required. For more information contact your POSI-STRUT supplier.

**C.C.M.C. Acceptance No.: 12691-R**

## **IMPORTANT:**

**Store the Posi-Strut floor trusses in a vertical position and protect them from prolonged Contact with the ground or exposure to extreme weather.**

**Install all strongbacks, ribbons, and bracing at the locations specified on the installation drawings before walking on the floor trusses.**

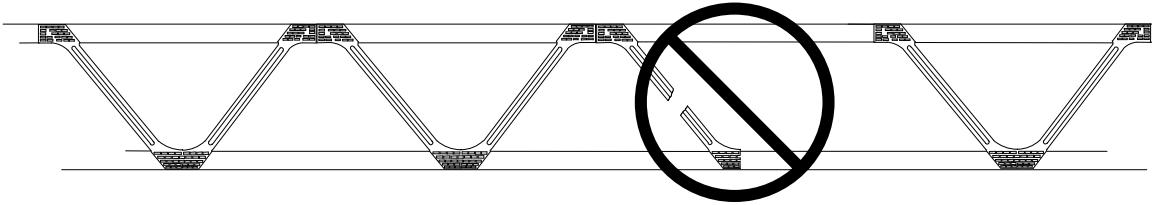
**Do not store construction materials that exceed design loads on the floor, even for a short period of time.**

**All bearing points of the Posi-Strut trusses must be restrained in a manner to prevent lateral movement or toppling.**

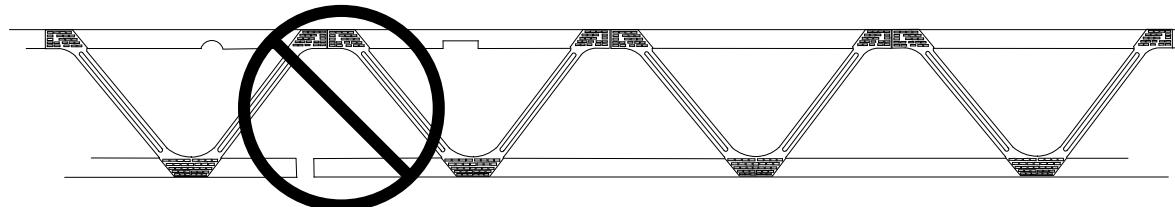
**Do not cut, drill, or modify the Posi-Strut trusses.**

**Glue, and nail or screw the subfloor to the Posi-Strut trusses.**

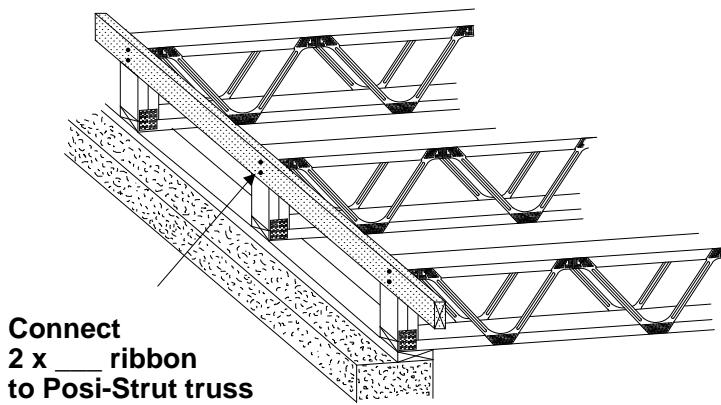
# **DO NOT CUT OR REMOVE METAL WEBS**



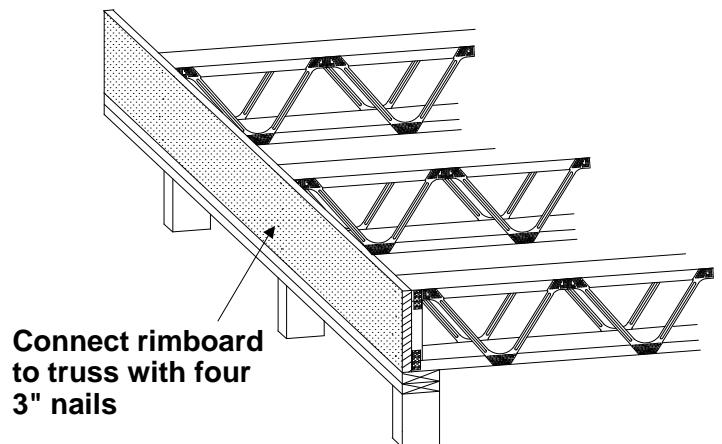
# **DO NOT CUT, NOTCH, OR DRILL TOP OR BOTTOM CHORDS**



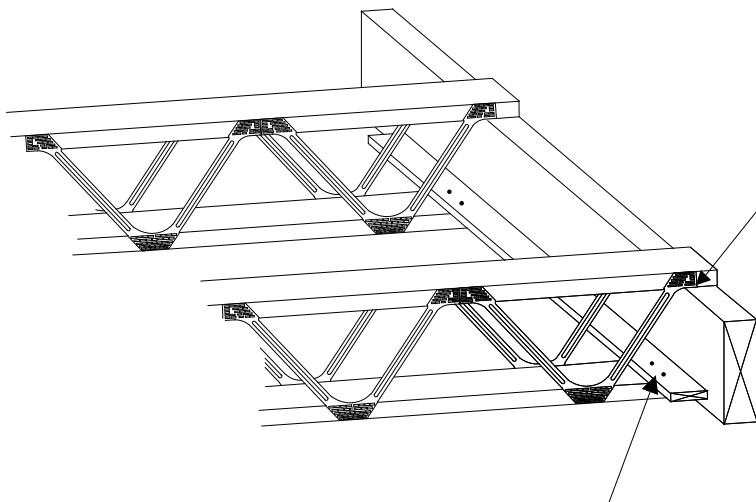
## **2 x \_\_ Ribbon Detail**



## **Rimboard Detail**

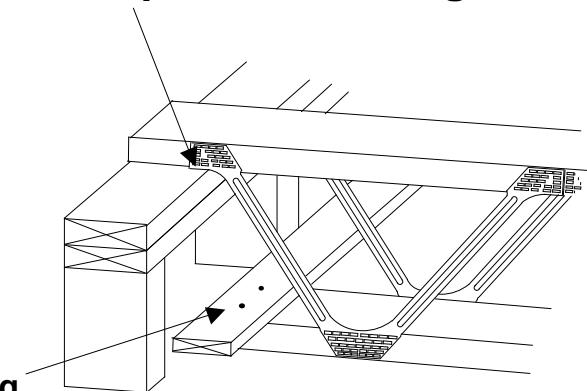


## **Top Chord Bearing Detail**



Connect 1 x 3 lateral brace  
to bottom chord with two  
2.5" nails if no gypsum ceiling

**IMPORTANT:**  
The metal web must overlap  
bearing by a minimum of 1" for  
the top chord bearing detail.

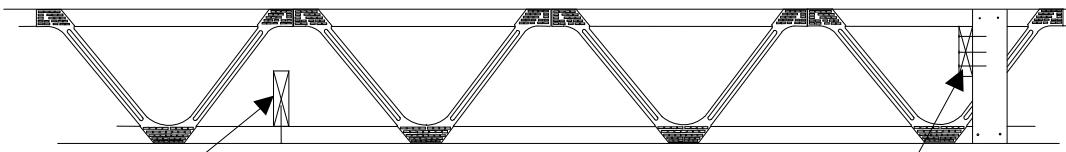


# STRONGBACK INSTALLATION

To minimize vibration common to all shallow floor framing systems, strongback bridging is required. Please refer to Posi-Strut fabricator's installation drawings for size, connection method, and spacing of strongbacks.

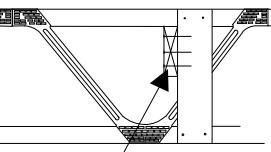
## Strongback Connection Methods

Method A



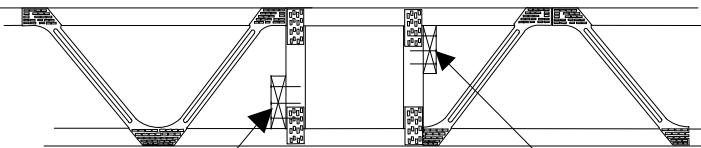
Screw strongback to chord (top or bottom) with two 3" #8 screws. Method "A" is allowed up to a maximum strongback size of 2 x 6. If a strongback greater than 2 x 6 is required, method B, C, or D must be used for strongback connection.

Method B



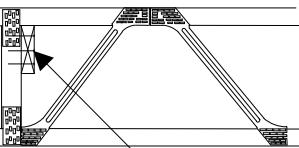
Connect strongback to 2 x 4 scab with three 3" nails which is face nailed to top and bottom chord with two 3" nails (per chord).

Method C



Connect strongback to vertical post below metal web with three 3" nails.

Method D

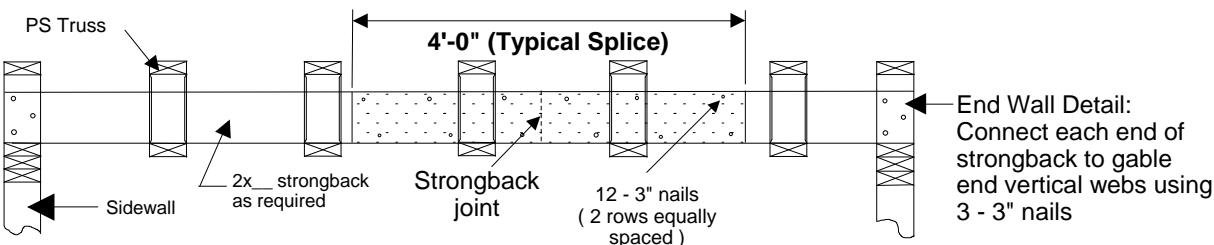


Connect strongback to vertical post above metal web with three 3" nails.

## Alternate Strongback Splice

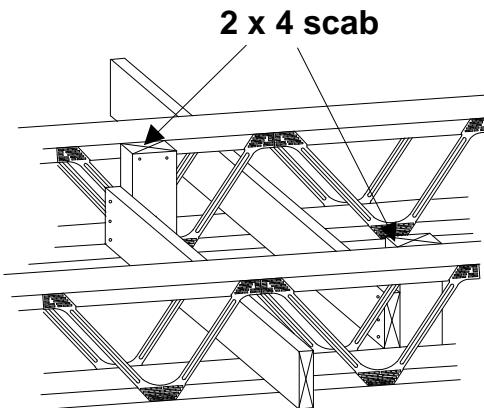
4'-0" long  
12 - 3" nails  
(2 rows equally spaced)

## Typical Splice For Strongback



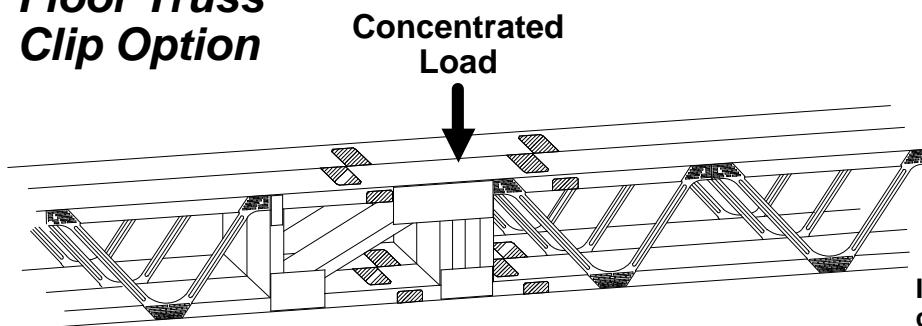
## Strongback Overlap

Where strongbacks can not be continuous through the floor system, overlap strongbacks by one truss spacing and connect to Posi-Strut truss using a 2 x 4 scab as per strongback connection Method "B".



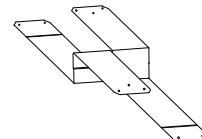
# Two-Ply Posi-Strut Girder Connection

## Floor Truss Clip Option



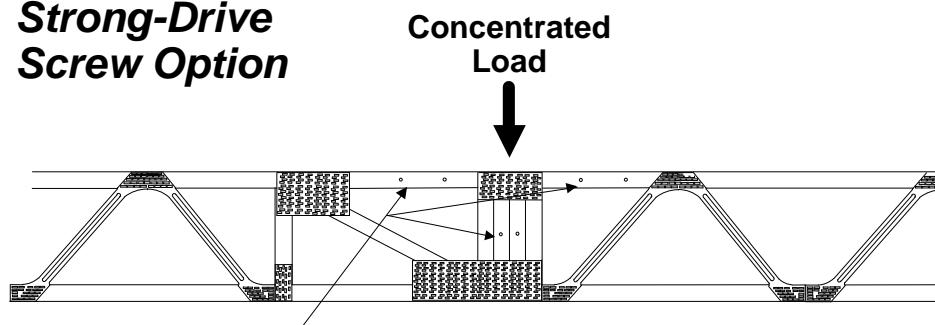
## Floor Truss Clip

2 ply 3x2: FTC32  
2 ply 4x2: FTC1



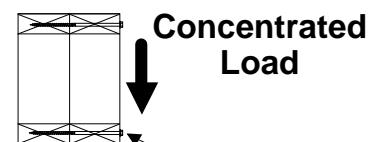
Install required number of floor truss clips at specified locations as per fabricator's engineered, Posi-Strut truss design. Ten, 1-1/2" long, 10d nails required per clip.

## Strong-Drive Screw Option



Install Simpson Strong-Drive screws into top chords and/or vertical posts (SDS 1/4 x 4 1/2 for 2 ply 3x2 & SDS 1/4 x 6 for 2 ply 4x2) as per fabricator's engineered, Posi-Strut truss design.

## 2 Ply 3x2 or 4x2 Posi-Strut Girder

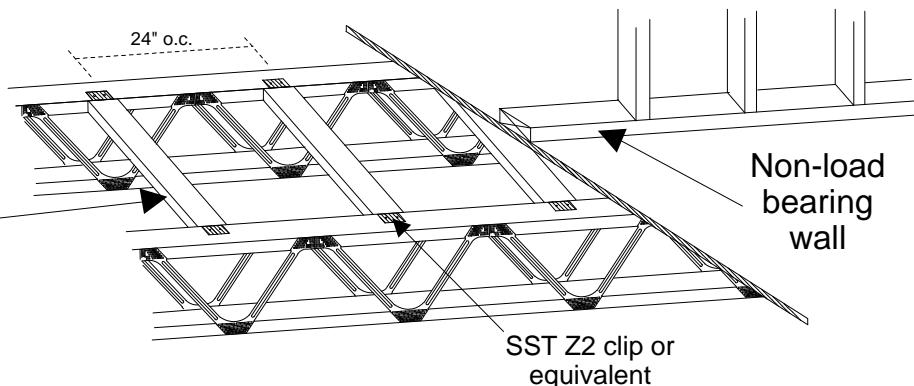


## Concentrated Load

Install SDS screws from loaded side of the Posi-Strut truss.

## Non-load bearing wall parallel with Posi-Strut trusses

Connect 4 x 2 blocking at 24" o.c. to top chords of Posi-Strut trusses with Simpson Strong-Tie Z2 clip or equivalent.



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