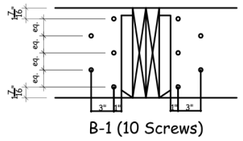
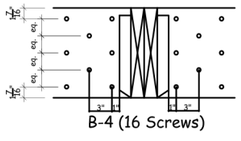
Screw Patterns for Side Loaded Point Loads



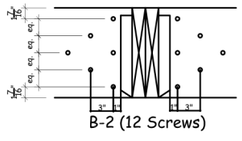
B-1 (10 Screws)

FLATLOCK Screws ($\frac{1}{2}$" x 3 $\frac{1}{2}$", 5" or 6 $\frac{3}{4}$")
Box Nails 10d (0.128"x3")
1 $\frac{3}{4}$ width pieces (2, 3 & 4 Plies)

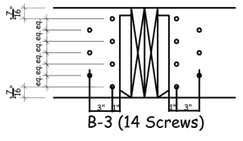
Minimum end distance for screws is 6"
Note: Nailing patterns will follow the same layout as for the screws



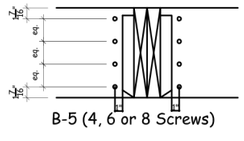
B-4 (16 Screws)



B-2 (12 Screws)



B-3 (14 Screws)



B-5 (4, 6 or 8 Screws)

NUMBER OF PLIES REQUIRED FOR 8' POST REACTION ONLY REACTIONS OVER 1000 lbs ARE SHOWN ON LAYOUT

MAXIMUM REACTION (UNBRACED CONDITIONS, TUL)

SPF#3/stud grade	SPF#2/or better	Post Req'd
1844 lbs	2547 lbs	2-2x4
4536 lbs	6717 lbs	3-2x4
7017 lbs	10858 lbs	4-2x4
2898 lbs	3870 lbs	2-2x6
7130 lbs	10545 lbs	3-2x6
11031 lbs	17148 lbs	4-2x6

Maximum reactions assumed to be centered over the column. This table is in accordance with the 2017 Canadian Wood Design Manualand is provided for reference only

NUMBER OF PLIES REQUIRED FOR 9' POST REACTION ONLY REACTIONS OVER 1000 lbs ARE SHOWN ON LAYOUT

MAXIMUM REACTION (UNBRACED CONDITIONS, TUL)

SPF#3/stud grade	SPF#2/or better	Post Req'd
1466lbs	1907 lbs	2-2x4
3992 lbs	5752 lbs	3-2x4
6398 lbs	8744 lbs	4-2x4
2299 lbs	3005 lbs	2-2x6
6285 lbs	9055 lbs	3-2x6
10255 lbs	15735 lbs	4-2x6

Maximum reactions assumed to be centered over the column. This table is in accordance with the 2017 Canadian Wood Design Manualand is provided for reference only

NUMBER OF PLIES REQUIRED FOR 10' POST REACTION ONLY REACTIONS OVER 1000 lbs ARE SHOWN ON LAYOUT

MAXIMUM REACTION (UNBRACED CONDITIONS, TUL)

SPF#3/stud grade	SPF#2/or better	Post Req'd
1160 lbs	1484 lbs	2-2x4
3479 lbs	4886 lbs	3-2x4
5303 lbs	7005 lbs	4-2x4
1822 lbs	2337 lbs	2-2x6
5477 lbs	7700 lbs	3-2x6
9466 lbs	14233 lbs	4-2x6

Maximum reactions assumed to be centered over the column. This table is in accordance with the 2017 Canadian Wood Design Manualand is provided for reference only

NUMBER OF PLIES REQUIRED FOR 12' POST REACTION ONLY REACTIONS OVER 1000 lbs ARE SHOWN ON LAYOUT

MAXIMUM REACTION (UNBRACED CONDITIONS, TUL)

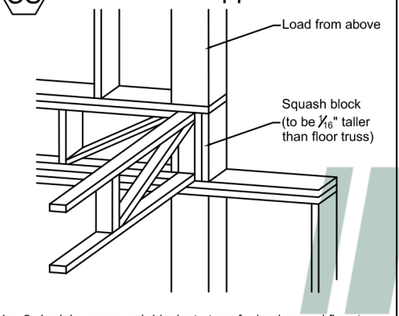
SPF#2/or better	Post Req'd
942 lbs	2-2x4
3480 lbs	3-2x4
4640 lbs	4-2x4
1482 lbs	2-2x6
5566 lbs	3-2x6
11539 lbs	4-2x6

Maximum reactions assumed to be centered over the column. This table is in accordance with the 2017 Canadian Wood Design Manualand is provided for reference only

EXTERIOR EWP PRODUCTS:

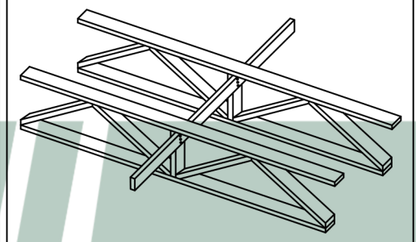
- Engineered Wood Products are designed for dry srevice conditions only.
- Builder is responsible for protecting Engineered Wood Products from wet service conditions.
- Build slope for drainage and ensure adequate ventilation in floor container.
- Homeowner is responsible for maintaining exterior protection of the Engineered Wood Products.

CS Column support



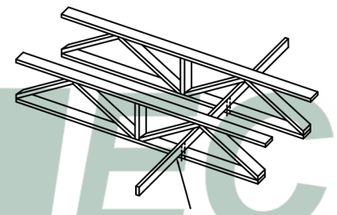
Use 2x4 minimum squash blocks to transfer load around floor truss Block to match bearing area of column above

SB-1 Strongback attached to vertical at top chord



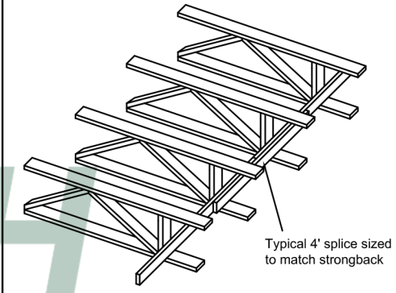
Place narrow edge of strongback against top chord and connect strongback to vertical block with 3 - 3" nails

SB-2 Strongback attached to bottom chord



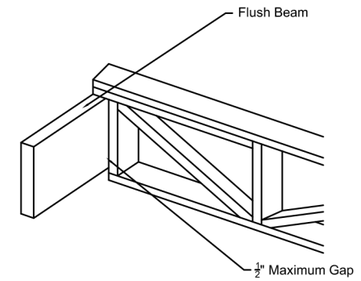
Fasten strongbacks to BC using 2 - 3" #8 screws from below. This method may only be used with a max strongback size of 2x6. Locate screws $\frac{3}{4}$" from the edge of chord.

Strongback splice



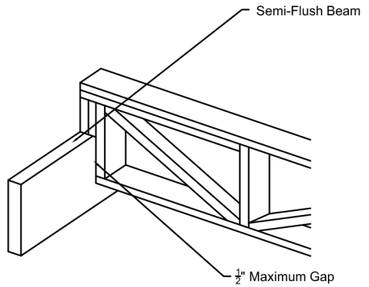
Connect a 48" splice member to strongback with 12 - 3" nails equally spaced along splice. Splice member shall be centered on splice joint and be of the same lumber size as the strongback.

Top Chord Bearing



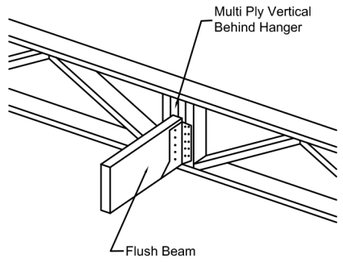
Truss Plating Not Shown For Clarity

Semi-Flush Beam



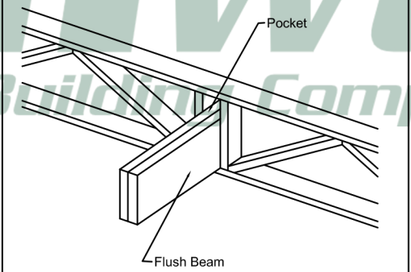
Truss Plating Not Shown For Clarity

Beam-Girder Connection Post



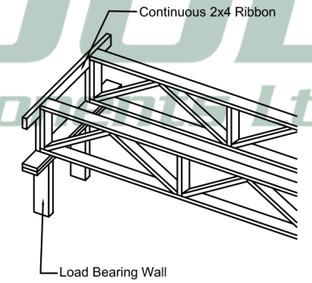
Truss Plating Not Shown For Clarity

Beam-Girder Connection Pocket



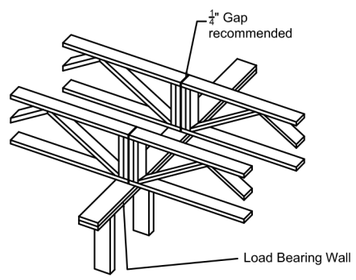
Flush beam to bear on all plies when a 2-Ply girder

End Bearing



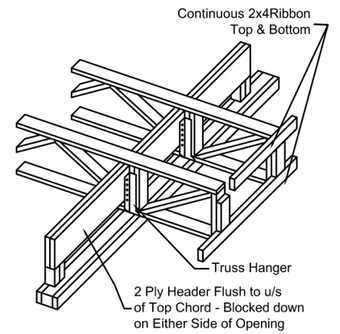
Truss Plating Not Shown For Clarity

Interior Bearing



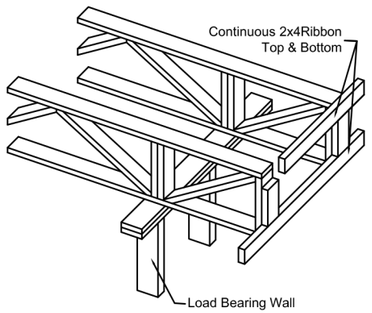
Truss Plating Not Shown For Clarity

Window Under Cantilever



Truss Plating Not Shown For Clarity

Cantilever



Truss Plating Not Shown For Clarity

2 - Ply Floor Truss Connection

DESIGN NOTES:

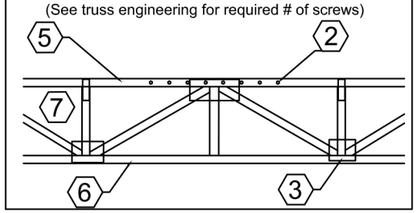
- For concentrated point loads apply screws at the vertical posts first as indicated on the "Concentrated Load Requirement" table. Apply the remaining screws at the top chord. (Total # of screws indicated on the Truss Engineering)
- Screws at the top must be within 12" on either side of the concentrated load.
- Minimum screw spacing shall be 4" o/c.
- Minimum end distance shall be 3-1/2" on vertical webs and at splices.
- Gap between the trusses shall NOT exceed 1/8".
- Floor sheathing shall be screwed or nailed AND glued to each top chord ply. (Fastener spacing per the applicable code requirements or @ 12" o/c. Max.)
- Screws shall NOT be installed in areas where lumber wane exceeds 1/4".
- Pre-drill any member where screws goes through a metal plate using a max 5/32" drill bit.
- It is recommended to install the screws from the opposite side of the concentrated side load to eliminate the interference with the hanger nails.

Concentrated Load Requirement

Truss Depth (in)	# Screws Per Vertical Web
< 10.0	0
10-13	1
14-17	2
18-21	3
22-25	4
26-29	5

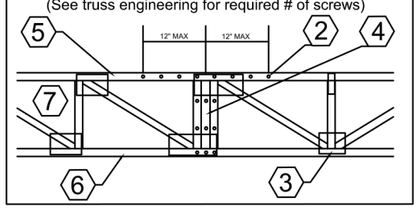
Side Uniform Load

(See truss engineering for required # of screws)



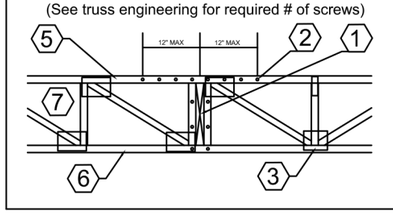
Side Concentrated Point Load

(See truss engineering for required # of screws)



Beam Pocket

(See truss engineering for required # of screws)



1. EWP Beam member supported in the truss beam pocket.
2. Lamination screws specified on the floor truss engineering.
3. Floor truss connector plate as indicated on truss engineering.
4. Built-up vertical post as indicated on the truss engineering.
5. Floor truss top chord.
6. Floor truss bottom chord.
7. Open web floor truss.