



FD

Fastener Designer

Input

App Configuration

Country	Language	Design Standard	Design Method	Unit	Connection Type	Multi-Ply Type
USA	English	NDS 2018 / NDS 2024	Allowable Stress Design (ASD)	Imperial	Multi-Ply Connections	Floor Truss

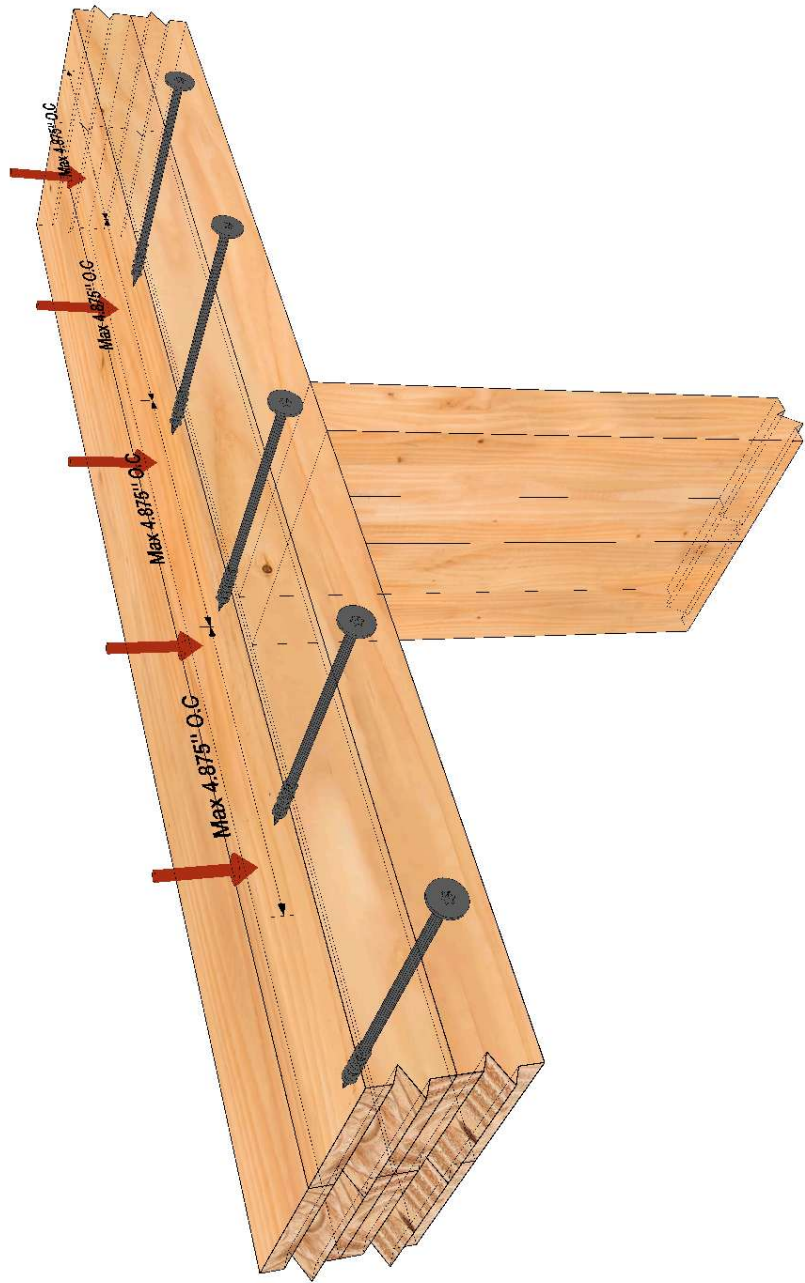
Load Properties

Load Type	Loading Side	Load Entry (plf)
Uniform Load	Head Side	1373

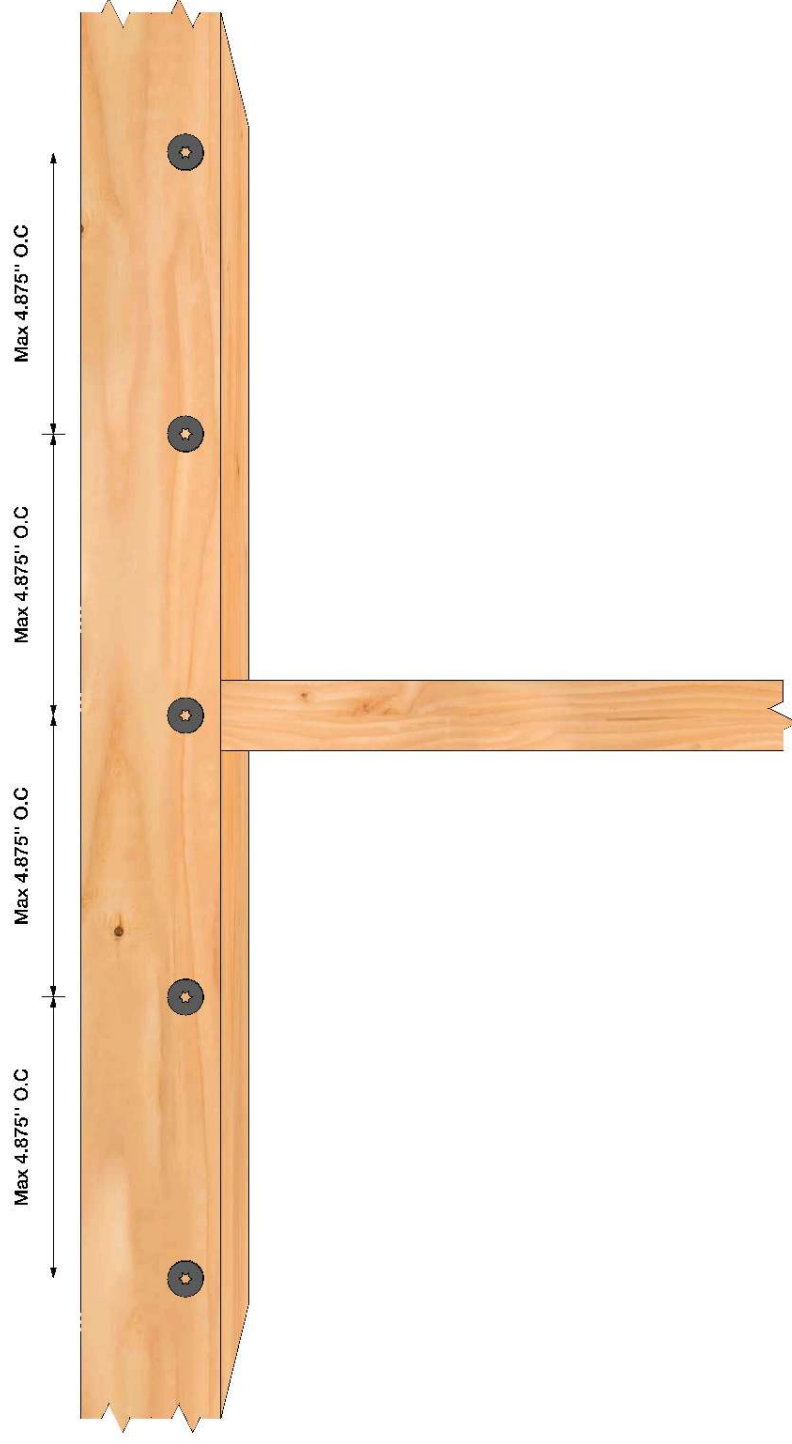
Member Properties

Number of Plies	Member Type	Member Depth (in)	Top Chord	Corrosion Resistance
2-Ply 4x Truss	SP	1.5	Double	All

3D Viewer



Note: The dimensions (in inches) shown in 3D represent the minimum/maximum spacing requirements only. They are not to scale and do not reflect actual spacing.



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Output

Model	Cost Index	Coating/Material	Corrosion Resistance	Allowable Applied Shear Load per Fastener (lb)	Number of Rows	Maximum Parallel Distance
 SDW22634 	Lowest	Electrocoating	Low	280	1	4.875 in
 SDW22634 	Lowest	Electrocoating	Low	280	2	9.75 in

Notes

- Each ply is assumed to carry same portion of load.
- Allowable loads are based on testing per ICC-ES AC233.
- Allowable loads in tables are shown at the load duration factor of $C_D = 1.00$ and shall be multiplied by all applicable adjustment factors per the NDS. Loads may be increased for load duration per the building code up to a $C_D = 1.6$.
- For the applied shear load calculation per fastener, the equation $P_{allow} = Z \times n / (n - 1)$ is used, where **Z** is the allowable shear per fastener and **n** is the number of plies.
- Gap between the trusses shall not exceed 1/8" .
- Floor sheathing shall be screwed or nailed to each top-chord ply. (Fastener spacing per the applicable Code requirements, or 12" o.c.)
- SDW screws shall not be installed in areas where lumber wane exceeds 1/4" .
- Visit strongtie.com/drawings and search for SD3-M for additional multi-ply fastening detail sheets and load tables in DWG, PDF or DXF format.