

REDUCED HEEL HEIGHT INSTALLATIONS FOR GTWS HANGERS

When the supported truss has a heel height less than the GTWS hanger, the designer may evaluate the connection and calculate the design loads based on the reduced supported truss fastener schedule.

- When using a reduced amount of fasteners, ensure placement of an equal amount of fasteners in each flange of the GTWS.
- Reducing the amount of wood screws into the supported truss reduces uplift loads.
- The amount of wood screws into the supporting truss *must be equal or greater* than the amount of wood screws into the supported truss in order for calculations to be correct.

Calculate the reduced uplift load for the GTWS with a reduced heel height:

$$\frac{\text{Number of Wood Screws installed}}{\text{Published Number of Wood Screws}} \times \text{Published Allowable Load} = \text{Reduced Allowable Load}$$

Reduced Heel Height Uplift Loads Example Calculation:

A GTWS2T hanger installed with (22) WS3 Wood Screws, into supporting truss, and (4) WS3 Wood Screws, into supported truss.

Fastener Schedule:

Published fastener schedule of GTWS2T:

= (22) WS3 Wood Screws, into supporting truss.

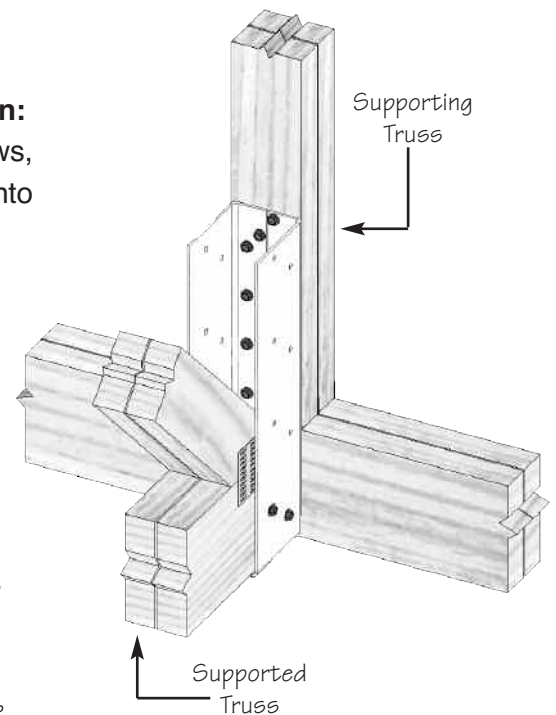
= (16) WS3 Wood Screws, into supported truss.

Uplift Loads:

Published uplift capacity of GTWS2T @ 160% = 7835 lbs.

Reduced GTWS2T Uplift Capacity:

$$\frac{(4) \text{ WS3 Wood Screws installed}}{(16) \text{ WS3 Wood Screws}} \times 7835 \text{ lbs.} = 1958 \text{ lbs. @ 160\%}$$



Truss Heel with Reduced Supported Truss Fastening



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