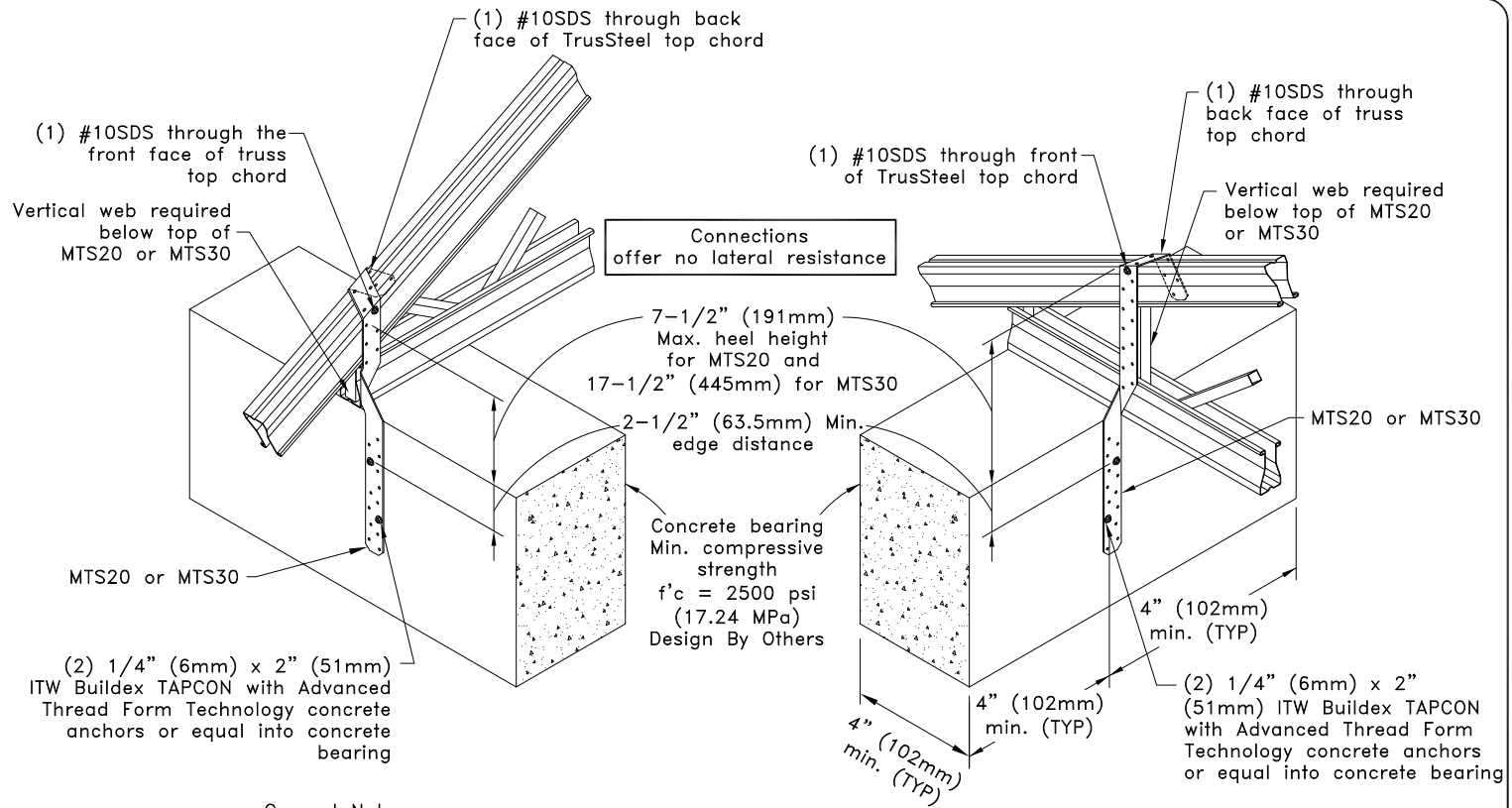
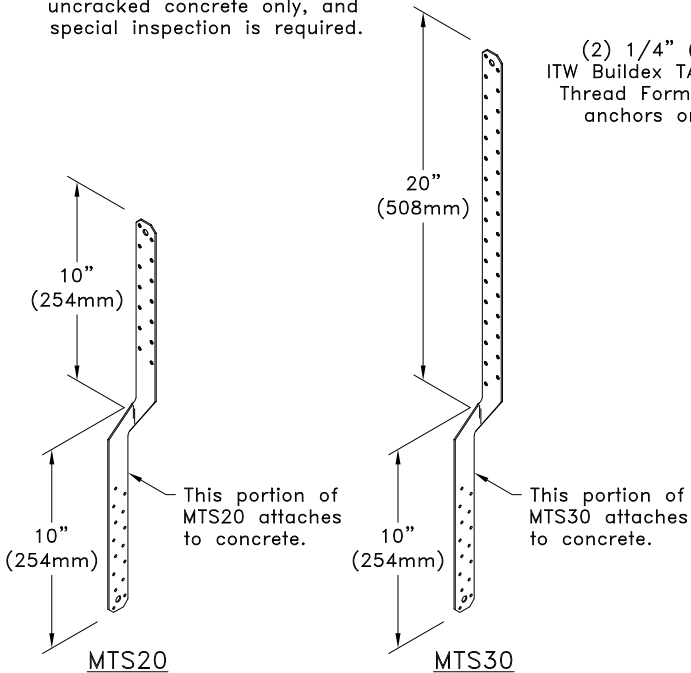


Contact a TrusSteel engineer if the approved truss drawing has been analyzed with a bearing under the bottom chord. Resisting uplift at the top chord of the truss changes the truss analysis.

Allowable Uplift lbs (kN) ^A		
Top Chord	MTS on one face	MTS on both faces
28TSC2.75	400 (1.78)	800 (3.56)
33TSC2.75	510 (2.27)	1020 (4.54)
43TSC2.75	550 (2.45)	1520 (6.76)
28TSC3.00 or 28TSC4.00	400 (1.78)	800 (3.56)
33TSC3.00 or 33TSC4.00	510 (2.27)	1020 (4.54)
43TSC3.00 or 43TSC4.00	760 (3.38)	1520 (6.76)
54TSC3.00 or 54TSC4.00	850 (3.78)	1700 (7.56)
68TSC4.00		
97TSC4.00		

A. Per ICC ESR-2202 (October, 2021), the design values given above are for uncracked concrete only, and special inspection is required.



General Notes:

- 2-Ply trusses require a strap on each face. For connection to 3-Ply trusses contact a TrusSteel engineer.
- SDS = self-drilling tapping screw. #10SDS end distance, edge distance and spacing is 9/16" (14mm) minimum.
- TAPCON shear values into concrete are per ICC ESR-2202 (October, 2021). Refer to ICC ESR-2202 regarding proper installation of anchor and requirements of special inspection.
- TAPCON concrete minimum anchor spacing is 4" (102mm). Minimum edge distance is 2-1/2" (63.5mm).
- TAPCON concrete anchor shall not be installed until concrete has reached the specified design strength.
- If a MTS is required on both faces, attach the second MTS to the opposite face of the chord as detailed and apply them to the same face of the wall.
- Truss shall be designed with at least one vertical web over the bearing.
- It is permissible to substitute an equal alternative for the Simpson Strong-Tie hardware specified on this detail.
- Cold-Formed Steel calculations are per the 2020 supplement to AISI 1616 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16/S2-20).



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**Simpson MTS20 & MTS30 (or equal)
Uplift Attachment Over Top Of
Truss Into Face Of Concrete Bearing**

Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by Alpine, a division of ITW Building Components Group, Inc.

Standard Detail:
TS058

Date:
06/01/22

TrusSteel Detail Category:
Truss-To-Bearing: Concrete