

SMART BUILDING

THE NUTRUSS®

ROOF & FLOOR

TRUSS SYSTEM

by NUCONSTEEL

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ROOF & FLOOR

TRUSS SYSTEM

NUTRUSS® from Nuconsteel is a cost effective Cold-Formed Steel (CFS) proprietary roof and floor truss system. Combined with state-of-the art design, layout and engineering software, Nutruss is second to none in the industry, bringing superior strength, design flexibility and wider spans. Nutruss is factory built using a streamlined automated process with strict quality control compliance. Nutruss integrates easily with all CFS applications along with other building construction methods such as cast-in-place concrete, pre-cast concrete, masonry and structural steel framing. All construction methods are supported with engineered truss attachment clips and details.

MATERIAL AND FINISHES

Nutruss chord and web material complies with the following:

- Steel shall conform to ASTM A653 Grade 55 or ASTM A1003 Structural Grade.
- Chord and web material minimum yield is 50,000 psi for all locations except the west coast where the minimum material yield is 33,000 psi for material thickness 43 mil and lighter.
- Steel shall be galvanized in accordance with ASTM A924 with a G60 standard galvanized coating. For coastal areas and highly corrosive environments a G90 galvanized coating is available.
- Chord and web structural material thicknesses range from 27 mil to 54 mil.

CODES AND CERTIFICATIONS

- Nutruss is designed in accordance with 2001 AISI-NASPEC, with 2004 supplement and applicable building codes.
- Nutruss meets ICC technical building product and code compliance and is certified under ICC report ESR-1542.

UL FIRE RATINGS

Building Codes frequently require roof framing assemblies to have a fire-resistance rating that is based on fire tests conducted in accordance with a recognized standard test. Fire rating of an assembly is a measurement that indicates how long the assembly will contain the spread of fire, smoke and temperature while maintaining structural integrity. Nutruss has the following Underwriters Laboratories (UL) Fire Resistance Ratings:

NUTRUSS ROOF TRUSS

UL Listing	Rating
UL P537	1 and 1 ½ hour
UL P536	1, 1 ½ and 2 hour
UL P540	1 hour

NUTRUSS FLOOR TRUSS

UL Listing	Rating
UL G546	1 and 2 hour
UL L565	1 hour
UL L560	1 hour

NUTRUSS ADVANTAGES

- Virtually unlimited truss design – extremely versatile
- Long span capabilities
- Lightweight and easy to handle on the jobsite
- Strong weak axis performance – helps prevent damage in handling, reduces bracing requirements and provides solid footing for installers and other trades
- High strength-to-weight ratio
- Mechanically fastened – no welding
- Truss chords and webs are in one plane
- Environmentally friendly – made from recycled content and fully recyclable

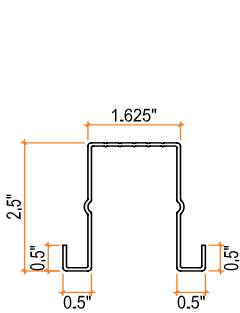


Environmental Data

Nutruss uses recycled steel products from Nucor, America's largest recycler, and is 100% recyclable.

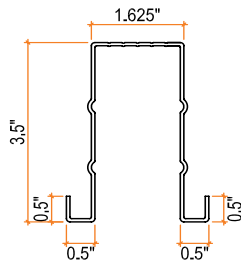
NUTRUSS PROPERTIES AND SPECIFICATIONS

Sections	t (in.)	Area (in.2)	Weight lb/ft	Ix (in.4)	Sx (in.3)	Rx (in.)	Iy (in.4)	Sy (in.3)	Ry (in.)	Jx1000 (in.4)	Cw (in.)	RO (in.)	XO (in.)	YO (in.)	yy (in.)
15C22	0.0283	0.1336	0.4390	0.0373	0.0411	0.5286	0.0477	0.0655	0.5976	0.0357	0.0215	1.5285	0.0581	-1.3025	1.4475
15C20	0.0346	0.1619	0.5367	0.0447	0.0494	0.5257	0.0566	0.0782	0.5913	0.0646	0.0252	1.5214	0.0577	-1.2981	1.4410
15C18	0.0451	0.2079	0.6995	0.0564	0.0623	0.5210	0.0701	0.0979	0.5808	0.1409	0.0306	1.5094	0.0571	-1.2909	1.4302
15C16	0.0566	0.2566	0.8779	0.0683	0.0756	0.5158	0.0832	0.1174	0.5693	0.2740	0.0355	1.4964	0.0564	-1.2829	1.4183
15D22	0.0283	0.2671	0.8779	0.0790	0.1013	0.5438	0.0957	0.1321	0.5985	0.0713	0.0430	0.8086	0.0000	0.0000	0.0000
15D20	0.0346	0.3237	1.0733	0.0944	0.1206	0.5401	0.1136	0.1571	0.5924	0.1292	0.0504	0.8016	0.0000	0.0000	0.0000
15D18	0.0451	0.4157	1.3991	0.1185	0.1504	0.5340	0.1409	0.1955	0.5822	0.2819	0.0612	0.7900	0.0000	0.0000	0.0000
15D16	0.0566	0.5131	1.7558	0.1427	0.1798	0.5273	0.1674	0.2331	0.5712	0.5479	0.0709	0.7774	0.0000	0.0000	0.0000
2D22	0.0283	0.5343	1.7558	0.4711	0.3049	0.9390	0.1914	0.2643	0.5985	0.1426	0.0860	1.1135	0.0000	0.0000	0.0000
2D20	0.0346	0.6475	2.1467	0.5682	0.3670	0.9368	0.2272	0.3143	0.5924	0.2584	0.1008	1.1084	0.0000	0.0000	0.0000
2D18	0.0451	0.8314	2.7981	0.7243	0.4662	0.9333	0.2819	0.3911	0.5822	0.5637	0.1224	1.1000	0.0000	0.0000	0.0000
2D16	0.0566	1.0263	3.5116	0.8868	0.5687	0.9296	0.3349	0.4662	0.5712	1.0959	0.1418	1.0910	0.0000	0.0000	0.0000
25TC22	0.0283	0.2345	0.7697	0.2012	0.1603	0.9263	0.1673	0.1303	0.8446	0.0626	0.0821	2.5301	0.0000	2.1977	-2.3179
25TC20	0.0346	0.2851	0.9410	0.2429	0.1939	0.9231	0.2010	0.1573	0.8397	0.1137	0.0976	2.5254	0.0000	2.1955	-2.3150
35TC22	0.0283	0.2911	0.9621	0.4610	0.2612	1.2586	0.2033	0.1583	0.8359	0.0777	0.1948	3.5257	0.0000	3.1856	-3.2433
35TC20	0.0346	0.3543	1.1763	0.5580	0.3166	1.2551	0.2447	0.1915	0.8312	0.1414	0.2325	3.5220	0.0000	3.1841	-3.2418
25TC18	0.0451	0.3681	1.2266	0.3101	0.2480	0.9178	0.2545	0.2008	0.8314	0.2496	0.1213	2.5175	0.0000	2.1918	-2.3101
45TC20	0.0346	0.4235	1.4115	1.0502	0.4628	1.5748	0.2885	0.2258	0.8254	0.1690	0.4560	4.5386	0.0000	4.1759	-4.2031
25TC16	0.0566	0.4572	1.5393	0.3803	0.3033	0.9120	0.3093	0.2463	0.8225	0.4883	0.1446	2.5086	0.0000	2.1875	-2.3046
35TC18	0.0451	0.4583	1.5332	0.7152	0.4066	1.2492	0.3108	0.2452	0.8235	0.3107	0.2913	3.5157	0.0000	3.1815	-3.2391
55TC20	0.0346	0.4927	1.6468	1.7540	0.6323	1.8869	0.3320	0.2600	0.8213	0.1966	0.7900	5.5642	0.0000	5.1697	-5.1801
45TC18	0.0451	0.5485	1.8399	1.3490	0.5958	1.5685	0.3670	0.2896	0.8181	0.3719	0.5739	4.5335	0.0000	4.1741	-4.2020
35TC16	0.0566	0.5704	1.9242	0.8810	0.5021	1.2428	0.3789	0.3017	0.815	0.6091	0.3500	3.5087	0.0000	3.1784	-3.2361
55TC18	0.0451	0.6387	2.1465	2.2580	0.8153	1.8802	0.4230	0.3340	0.8142	0.4330	0.9973	5.5599	0.0000	5.1686	-5.1800
45TC16	0.0566	0.6836	2.3090	1.6670	0.7374	1.5615	0.4490	0.3572	0.8100	0.7300	0.6930	4.5276	0.0000	4.1719	-4.2006
55TC16	0.0566	0.7968	2.6938	2.7950	1.0109	1.8727	0.5180	0.4126	0.8064	0.8509	1.2086	5.5549	0.0000	5.1671	-5.1796
35TC16C16	0.0566	0.8270	2.8021	1.0610	0.7035 ^(a) 0.5327 ^(b)	1.1327	0.4622	0.3663 ^(a) 0.3697 ^(a)	0.7475	0.8831	0.3855	2.6465	-0.0003	2.2720	-2.5720
45TC16C16	0.0566	0.9402	3.1869	2.0520	1.0774 ^(a) 0.7907 ^(b)	1.4774	0.532	0.4218 ^(a) 0.4251 ^(a)	0.7521	1.0040	0.7285	3.5747	-0.0020	3.1670	-3.5458
55TC16C16	0.0566	1.0534	3.5717	3.4950	1.1007 ^(a) 1.1007 ^(b)	1.8214	0.601	0.4772 ^(a) 0.4806 ^(a)	0.7556	1.1249	1.2441	4.5363	-0.0027	4.0852	-4.5124



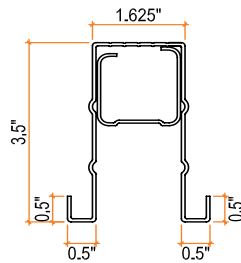
25TC
Chord

Available in 16, 18, 20 & 22 GA.



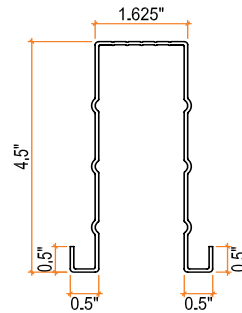
35TC
Chord

Available in 16, 18, 20 & 22 GA.



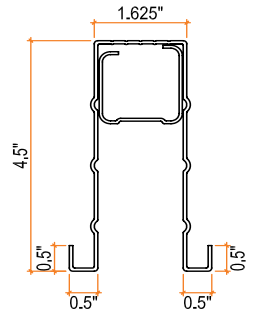
35TC16C16
Chord with Insert

Available in 16 GA. only.



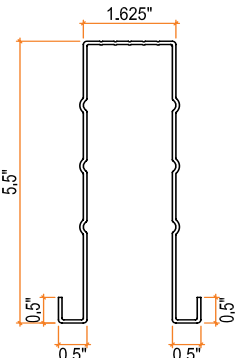
45TC
Chord

Available in 16, 18, 20 GA.



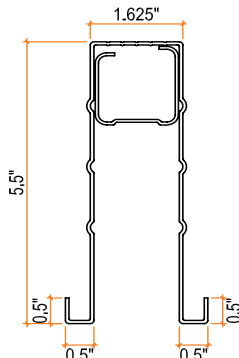
45TC16C16
Chord with Insert

Available in 16 GA. only.



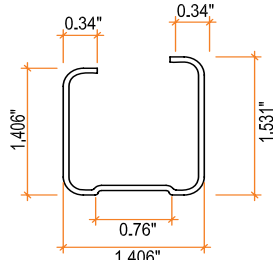
55TC
Chord

Available in 16, 18 & 20 GA.



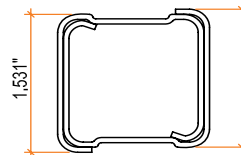
55TC16C16
Chord with Insert

Available in 16 GA. only.



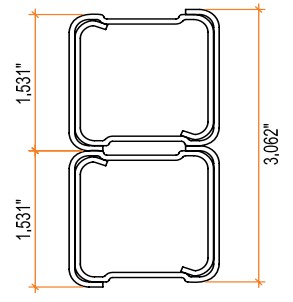
15C
Single Web

Available in 16, 18, 20 & 22 GA.



15D
Nested Webs

Available in 16, 18, 20 & 22 GA.



2D
Double Nested Webs

Available in 16, 18, 20 & 22 GA.



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