

NUPANEL from Nucorsteel is a fully panelized load bearing Cold-Formed Steel (CFS) wall system. NUPANEL is supported by state-of-the-art design software and is factory built using an automated manufacturing process with strict quality control compliance. With other building construction methods like cast-in-place concrete, pre-cast concrete, masonry and structural steel framing, NUPANEL integrates easily in either load bearing or curtain wall applications. Stud and track members are available in 3 5/8" and 6" standard widths. Other widths are also available to meet architectural requirements. Standard thicknesses for structural material are available from 33 mil to 97 mil.



MATERIAL AND FINISHES

NUPANEL wall stud and track material complies with the following:

- Steel shall conform to ASTM A653 Grade SS or ASTM A1003 Structural Grade.
- Steel material minimum yield is 33,000 psi for 43 mil material thickness and lighter and 50,000 psi for 54 mil material thickness and greater.
- 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. Material used for non-load bearing interior framing has a G40 galvanized coating.

UL FIRE RATINGS

Building Codes frequently require wall 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. Underwriters Laboratories (UL), Gypsum Association and Factory Mutual all have fire rated assemblies for load bearing and non-load bearing steel framed walls.

For NUPANEL fire ratings visit: www.nuconsteel.com

SOUND RATINGS

Building Codes set minimums for Sound Transmission Classifications (STC) and Impact Insulation Classification (IIC) for wall and floor framing assemblies.

For NUPANEL sound ratings visit: www.nuconsteel.com



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

NUPANEL ADVANTAGES

- Economical** – lower cost than masonry, structural steel, pre-cast and formed concrete
- Superior** – improved panelized construction lowers risk and insurance costs
- Faster** – panelization alone speeds construction schedules by up to 30%
- Better, safer living conditions**
- Inorganic** – will not rot, warp, split or crack
- Termite and mold resistant**
- Fireproof** – reduces risks and insurance costs
- Dimensionally stable** – no expansion or contraction with moisture content
- Stronger** – higher strength-to-weight ratio than other building materials
- Lighter** – easier to handle and reduces foundation costs
- Consistent material quality** – straight walls, square corners, less maintenance and fewer callbacks



THE NUPANEL®

PANELIZED

WALL SYSTEM

by NUCONSTEEL

NUPANEL STANDARD WALL STUD AND TRACK SECTION PROPERTIES

Member	Design Thickness (in.)	Area (in.2)	Weight lb/ft	Gross Properties					Effective Properties (33KSI)				Effective Properties (50KSI)				Torsional Properties				
				I _x (in.4)	S _x (in.3)	R _x (in.)	I _y (in.4)	R _y (in.)	I _x (in.4)	S _x (in.3)	M _a (in.-k)	V _a (lb)	I _x (in.4)	S _x (in.3)	M _a (in.-k)	V _a (lb)	J _x 1000 (in.4)	C _w (in.6)	X _o (in.)	R _o (in.)	B
362S162-33	0.0346	0.262	0.89	0.551	0.304	1.450	0.099	0.616	0.551	0.268	5.29	1024	0.551	0.235	7.04	1083	0.105	0.293	-1.335	2.065	0.582
362S162-43	0.0451	0.34	1.16	0.710	0.392	1.445	0.127	0.611	0.710	0.372	7.34	1739	0.710	0.321	9.62	2141	0.230	0.371	-1.323	2.052	0.585
362S162-54	0.0566	0.422	1.44	0.873	0.481	1.438	0.154	0.604	0.873	0.466	9.22	2341	0.873	0.444	13.28	3372	0.451	0.449	-1.314	2.040	0.585
362S162-68	0.0713	0.524	1.78	1.069	0.590	1.429	0.186	0.596	1.069	0.579	11.43	2884	1.069	0.574	17.18	4370	0.887	0.540	-1.305	2.024	0.585
362S162-97	0.1017	0.724	2.46	1.435	0.792	1.408	0.241	0.577	1.435	0.776	15.33	3922	1.435	0.776	23.23	5943	2.496	0.699	-1.286	1.992	0.583
600S162-33	0.0346	0.344	1.17	1.793	0.598	2.282	0.116	0.581	1.793	0.577	11.41	638	1.793	0.481	14.40	638	0.137	0.851	-1.091	2.595	0.823
600S162-43	0.0451	0.447	1.52	2.316	0.772	2.276	0.148	0.576	2.316	0.767	16.68	1416	2.316	0.706	21.12	1416	0.303	1.082	-1.081	2.585	0.825
600S162-54	0.0566	0.556	1.89	2.860	0.953	2.267	0.180	0.570	2.860	0.953	21.17	2739	2.860	0.916	30.33	2823	0.594	1.318	-1.072	2.572	0.826
600S162-68	0.0713	0.693	2.36	3.525	1.175	2.255	0.218	0.560	3.525	1.175	26.79	4347	3.525	1.164	39.47	5350	1.174	1.596	-1.061	2.554	0.828
600S162-97	0.1017	0.966	3.29	4.797	1.599	2.229	0.283	0.541	4.797	1.599	38.37	6911	4.797	1.599	56.73	10472	3.329	2.093	-1.039	2.518	0.830
362T125-33	0.0346	0.212	0.72	0.438	0.232	1.438	0.030	0.377	0.384	0.174	3.44	1024	0.368	0.164	4.92	1039	0.085	0.075	-0.667	1.630	0.832
362T125-43	0.0451	0.276	0.94	0.571	0.302	1.439	0.039	0.375	0.531	0.245	4.84	1739	0.508	0.230	6.89	2141	0.187	0.097	-0.663	1.628	0.834
362T125-54	0.0566	0.346	1.18	0.723	0.378	1.445	0.048	0.373	0.705	0.332	6.57	2480	0.678	0.312	9.34	3372	0.369	0.122	-0.659	1.632	0.837
362T125-68	0.0713	0.436	1.48	0.921	0.475	1.454	0.060	0.370	0.921	0.453	8.95	3104	0.907	0.427	12.78	4703	0.738	0.155	-0.655	1.637	0.840
362T125-97	0.1017	0.621	2.11	1.343	0.675	1.471	0.082	0.363	1.343	0.675	15.24	4370	1.343	0.675	20.20	6622	2.140	0.223	-0.646	1.647	0.846
600T125-33	0.0346	0.294	1.00	1.428	0.465	2.204	0.034	0.339	1.258	0.297	5.87	622	1.169	0.256	7.66	622	0.117	0.237	-0.523	2.291	0.948
600T125-43	0.0451	0.383	1.30	1.861	0.604	2.205	0.044	0.337	1.768	0.461	9.11	1377	1.670	0.402	12.05	1377	0.260	0.306	-0.519	2.290	0.949
600T125-54	0.0566	0.480	1.63	2.344	0.756	2.209	0.054	0.335	2.299	0.666	13.15	2728	2.241	0.592	17.73	2728	0.513	0.383	-0.516	2.293	0.949
600T125-68	0.0713	0.605	2.06	2.969	0.950	2.215	0.067	0.332	2.969	0.916	18.09	4347	2.934	0.858	25.69	5350	1.025	0.481	-0.512	2.298	0.950
600T125-97	0.1017	0.862	2.93	4.281	1.347	2.228	0.092	0.326	4.281	1.347	30.43	7359	4.281	1.347	40.33	10885	2.973	0.681	-0.504	2.308	0.952

Notes:

- Section properties are calculated in accordance with the AISI "North American Specifications for the Design of Cold-Formed Steel Members" 2001 Edition, with 2004 Supplement.
- The minimum bare steel thickness is 95% of the design thickness.
- Steel shall conform to ASTM A653 Grade SS or ASTM A1003 Structural Grade having a minimum yield of 33,000 psi or 50,000 psi, respectively.
- Steel shall be galvanized in accordance with ASTM A924 Coating Class G60.
- Effective properties are based on fully braced sections.

