



NU-STEEL

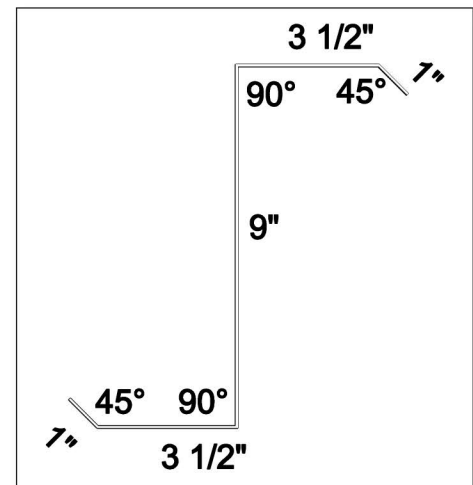
A DIVISION OF CONVEY-ALL INC

Z - PURLINS

12, 14, & 16 Gauge



All the light gauge components come galvanized coated.



TECHNICAL SPECIFICATIONS

Allowable Uniform Load in Pounds per Linear Foot

Span (ft)		Simple Span			2-Spans			3-Spans		
		12 Ga.	14 Ga.	16 Ga.	12 Ga.	14 Ga.	16 Ga.	12 Ga.	14 Ga.	16 Ga.
10	Strength	1323	927	720	1323	927	720	1590	925*	470*
	L/180	2020	1485	1182	5058	3668	2959	3812	2764	2230
12	Strength	919	643	500	919	643	500	1148	771*	392*
	L/180	1169	848	684	2927	2123	1712	2206	1600	1290
14	Strength	675	473	367	675	473	367	843	591	336*
	L/180	736	534	431	1843	1337	1078	1389	1007	813
16	Strength	517	362	281	517	362	281	646	453	294*
	L/180	493	358	288	1235	896	772	931	675	544
18	Strength	408	286	222	408	286	222	510	357	261*
	L/180	345	251	203	867	629	507	654	474	362
20	Strength	331	232	180	331	232	180	414	290	225
	L/180	252	183	148	632	459	370	476	346	279
22	Strength	273	192	149	273	192	149	342	239	186
	L/180	190	138	111	475	345	278	358	260	209
24	Strength	230	161	125	230	161	125	287	201	156
	L/180	146	106	85	366	255	214	276	200	161
26	Strength	195	137	107	195	137	107	245	171	133
	L/180	114	83	67	288	209	168	217	157	127
28	Strength	169	118	92	169	118	92	211	148	114
	L/180	92	67	54	230	167	135	174	126	102
30	Strength	147	103	80	147	103	80	184	129	100
	L/180	75	54	44	187	135	110	141	102	83

Section Properties (9" Depth x 3.5" Flange Width x 1" Lip)

Gauge	Thickness (in)	Fy (Ksi)	Area (in ²)	Ix (in ⁴)	Sx (in ³)	rx (in)	Iy (in ⁴)	Sy (in ³)	ry (in)	Ixe (in ⁴)	Sxe (in ³)	Mom. Cap. (ft-kip)	Shear Cap. (kips)	End Bear. (kips)	Int. Bear. (kips)
12	0.1046	50	1.84	23.11	5.15	3.54	6.1	1.46	1.82	21.03	4.41	16.54	14.74	12	17.5
14	0.0747	50	1.32	16.76	3.73	3.56	4.39	1.05	1.82	14.89	3.09	11.59	5.55	7.94	11.6
16	0.0598	50	1.06	13.52	3.01	3.57	3.55	0.85	1.83	10.26	2.4	9	2.82	6.1	8.86

Notes:

- Internal bend radius, R=2t.
- Ix and Sx are for full section.
- Ixe and Sxe are for reduced section.
- Ixe is for deflection determination.
- Section properties are computed in accordance with CSA S136-01 - Limit state design.
- Factored web crippling were determined used a bearing width of three inches at interior span.
- Loads tables are computed in accordance with the requirements of National Building Code of Canada 2005, CSA Specification S136-01 - North American.
- The capacity of the sections are valid only if the members are fully restrained with respect to lateral instability and with respect to torsional loads not applied through the shear centre.
- Figures in the strength row are checked against factored load. The symbol "*" indicates strength capacity has been reached for shear.
- Figures in the row L/180 are load values based on 1/180th of span. For L/360, multiply values by 0.5. Deflection should be checked against specified load.
- All spans are assumed equal. Loads are assumed to be uniformly distributed.
- Tabulated values for continuous span are based on lap length of 2'-4".
- 1/2" diameter A325 bolts are recommended for all lap bolts.



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