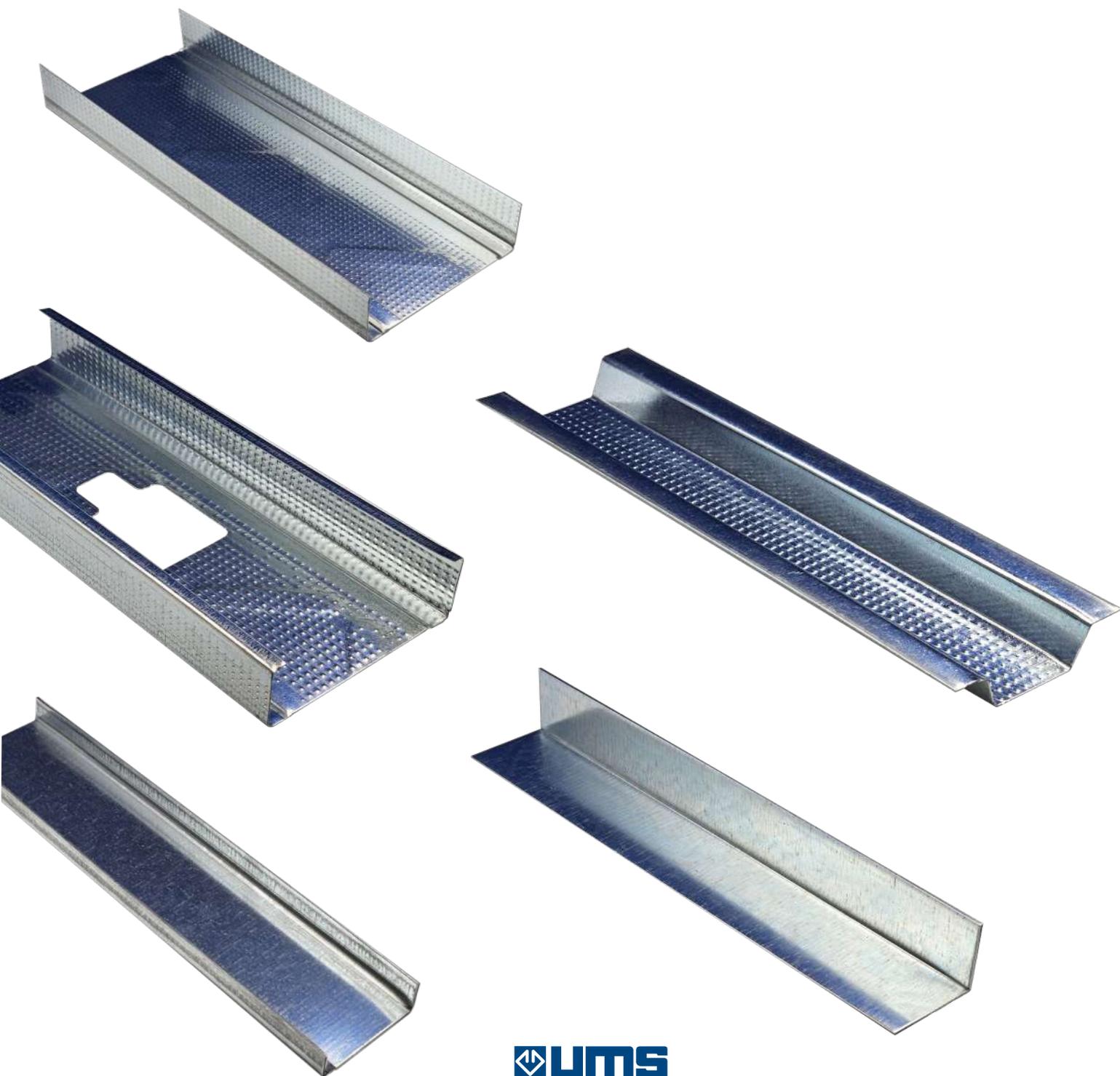


Cold-Formed Non-Structural Steel Members





ABOUT US

UMS is a trusted manufacturer of **structural cold-formed steel (CFS) framing** and **non-structural drywall systems** built for speed, precision, and durability. Our advanced roll-forming lines produce high-quality studs, tracks, and ceiling components for both commercial and residential applications.

We partner with general contractors, drywall installers, and framing crews to keep projects on schedule and within budget – without compromising on quality. Whether you are building load-bearing steel structures or interior partitions, UMS delivers framing you can rely on.

Certified, Precise, On time.
That's the UMS promise.





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GENERAL PRODUCT TYPE INFORMATION

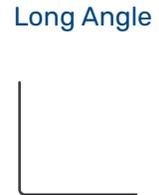
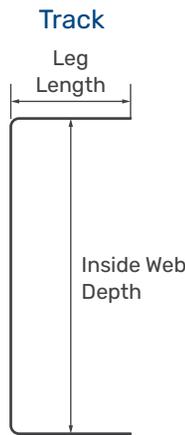
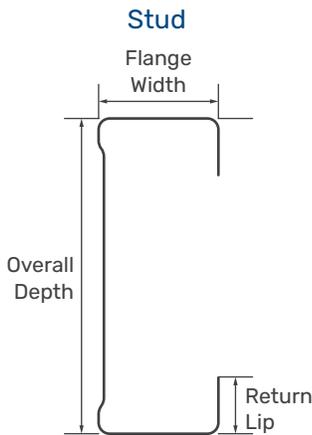
The section designator defines the cold-formed steel framing member dimensions.

362	S	125	18
Web Depth	Product Style	Flange Width	Material Thickness
362=3.625"	S: Stud	125=1.25"	18 Mils
	T: Track		
	F: Furring		
	L: Long Angle		
	U: U Channel		

Minimum base steel thickness is 95 % of Design Thickness.

UMS Metal nonstructural framing products have a G40 coating or a minimum standard coating that complies with the requirements of IBC 2021 and ASTM A1003/ A1003M. G60 and G90 coatings are available upon request.

General Product Information





CODE REFERENCES

The analysis performed and tables included satisfy the methods and requirements of the following:

- **AISI S100-2016** *North American Specification for Design of Cold Formed Steel Structural Members*
- **ASTM C645-18** *Standard Specification for Nonstructural Steel Framing Members.*
- **AISI S220-20** *North American Standard for Cold-Formed Steel Framing- Nonstructural Members*

UMS Metal nonstructural framing building products are manufactured to meet or exceed all applicable standards including:

- **ASTM A1003** *Standard Specification for Steel Sheet, Carbon, Metallic and Nonmetallic Coated for Cold Formed Framing Members.*
- **ASTM A653** *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.*
- **ASTM C754** *Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.*

Section Properties Tables - General Notes

1. Calculated properties are based on AISI S100-16, North American Specification for Design of Cold-Formed Steel Structural Members
2. The centerline bend radius is based on the inside corner radius shown in the thickness chart.
3. For deflection calculation use of the effective Moment of Inertia shall be used.
4. Allowable moments include cold work of forming per Section A7.2 of AISI S100-16.
5. Example: 162S125-18
162 designates the member web depth in 100ths of an inch, 162 = 1.61 in.
S designates the type of member. Types include:
 1. S: Stud
 2. T: Track
 3. F: Furring Channel
 4. U: U Channel
 5. L: Angle
6. 125 designates the member flange width in 100ths of an inch. For studs, 125 = 1.25 in.
7. 18 designates the steel thickness in mils (1/1000 inch.). 0.018 in. = 18 mil.
8. Minimum thickness represent 95% of the design thickness. This is the minimum acceptable thickness delivered to the jobsite based on section A2.4 of the AISI S100-16.
9. Allowable moment is taken as the lowest value based on local or distortional buckling. For distortional buckling, $K_{\phi} = 0$ and $\beta = 1.0$
10. Where noted, member height-to-thickness exceeds 200, web stiffeners required at supports.



UMS METAL FURRING CHANNEL



furring
channel

Section Designation	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties		Effective Properties	
					Area (in ²)	I _{xc} (in ⁴)	Moment (in-k)	
087F125-18	0.0188	0.0179	33	0.252	0.074	0.006	0.375	
087F125-30	0.0312	0.0296	33	0.416	0.119	0.014	0.630	
087F125-33	0.0346	0.0329	33	0.463	0.133	0.017	0.776	
087F125-43	0.0452	0.0429	33	0.603	0.172	0.022	1.008	
087F125-54	0.0566	0.0538	33	0.756	0.215	0.025	1.202	

UMS METAL U CHANNEL



U channel

Section Designation	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties		Effective Properties	
					Area (in ²)	I _{xc} (in ⁴)	Moment (in-k)	
075U075-54	0.0566	0.0538	33	0.285	0.089	0.0070	0.4615	
150U150-54	0.0566	0.0538	33	0.422	0.132	0.040	1.222	
200U200-54	0.0566	0.0538	33	0.516	0.160	0.082	1.511	



UMS METAL LONG ANGLE

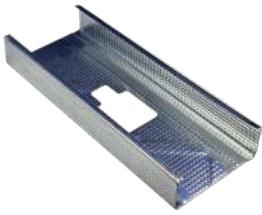


long
angle

Section Designation	Equal Leg Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties		Effective Properties	
						Area (in ²)	I _{xx} (in ⁴)	Moment (in-k)	
075L075-18	0.75	0.0188	0.0179	33	0,089	0.028	0.00002	0.026	
075L075-30	0.75	0.0312	0.0296	33	0,145	0.045	0.0002	0.079	
075L075-33	0.75	0.0346	0.0329	33	0,160	0.05	0.0003	0.098	
075L075-43	0.75	0.0452	0.0429	33	0,205	0.065	0.0009	0.131	
075L075-54	0.75	0.0566	0.0538	33	0,254	0.08	0.0020	0.161	
100L100-18	1.00	0.0188	0.0179	33	0,118	0.037	0.00004	0.030	
100L100-30	1.00	0.0312	0.0296	33	0,192	0.061	0.0004	0.100	
100L100-33	1.00	0.0346	0.0329	33	0,213	0.067	0.0006	0.128	
100L100-43	1.00	0.0452	0.0429	33	0,274	0.087	0.0020	0.223	
100L100-54	1.00	0.0566	0.0538	33	0,341	0.108	0.0050	0.293	
150L150-18	1.50	0.0188	0.0179	33	0,180	0.056	0.0001	0.028	
150L150-30	1.50	0.0312	0.0296	33	0,295	0.092	0.0012	0.126	
150L150-33	1.50	0.0346	0.0329	33	0,328	0.102	0.0020	0.166	
150L150-43	1.50	0.0452	0.0429	33	0,423	0.132	0.0066	0.316	
150L150-54	1.50	0.0566	0.0538	33	0,528	0.164	0.0163	0.523	
200L200-18	2.00	0.0188	0.0179	33	0,242	0.075	0.0003	0.031	
200L200-30	2.00	0.0312	0.0296	33	0,399	0.123	0.0029	0.119	
200L200-33	2.00	0.0346	0.0329	33	0,442	0.137	0.0047	0.189	
200L200-43	2.00	0.0452	0.0429	33	0,572	0.178	0.0155	0.374	
200L200-54	2.00	0.0566	0.0538	33	0,716	0.222	0.0365	0.646	



UMS METAL DRYWALL STUD

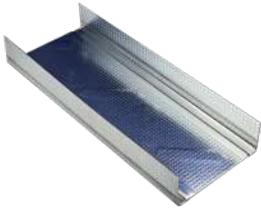


drywall
stud

Section Designation	Stud Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties		Effective Properties	
						Area (in ²)	I _{xe} (in ⁴)	Moment (in-k)	
162S125-18	1.625	0.0188	0.0179	33	0.267	0.081	0.034	0.67	
162S125-30	1.625	0.0312	0.0296	33	0.432	0.132	0.060	1.19	
162S125-33	1.625	0.0346	0.0329	33	0.477	0.145	0.066	1.37	
250S125-18	2.500	0.0188	0.0179	33	0.322	0.097	0.091	1.03	
250S125-30	2.500	0.0312	0.0296	33	0.524	0.159	0.159	2.09	
250S125-33	2.500	0.0346	0.0329	33	0.578	0.176	0.175	2.4	
350S125-18	3.500	0.0188	0.0179	33	0.382	0.115	0.203	1.42	
350S125-30	3.500	0.0312	0.0296	33	0.623	0.190	0.346	2.96	
350S125-33	3.500	0.0346	0.0329	33	0.689	0.210	0.382	3.45	
362S125-18	3.625	0.0188	0.0179	33	0.389	0.118	0.221	1.48	
362S125-30	3.625	0.0312	0.0296	33	0.635	0.194	0.376	3.08	
362S125-33	3.625	0.0346	0.0329	33	0.702	0.215	0.415	3.59	
400S125-18	4.000	0.0188	0.0179	33	0.413	0.125	0.281	1.64	
400S125-30	4.000	0.0312	0.0296	33	0.674	0.206	0.474	3.44	
400S125-33	4.000	0.0346	0.0329	33	0.746	0.228	0.524	4.01	
600S125-30	6.000	0.0312	0.0296	33	0.873	0.268	1.223	5.39	
600S125-33	6.000	0.0346	0.0329	33	0.966	0.297	1.378	6.32	



UMS METAL DRYWALL TRACK



drywall
track

Section Designation	Track Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties		Effective Properties	
						Area (in ²)	I _{xx} (in ⁴)	Moment (in-k)	
162T125-18	1.625	0.0188	0.0179	33	0.252	0.078	0.019	0.37	
162T125-30	1.625	0.0312	0.0296	33	0.415	0.128	0.044	0.93	
162T125-33	1.625	0.0346	0.0329	33	0.460	0.142	0.054	1.08	
250T125-18	2.500	0.0188	0.0179	33	0.307	0.094	0.060	0.70	
250T125-30	2.500	0.0312	0.0296	33	0.506	0.155	0.133	1.68	
250T125-33	2.500	0.0346	0.0329	33	0.561	0.172	0.156	1.96	
350T125-18	3.500	0.0188	0.0179	33	0.367	0.113	0.148	1.07	
350T125-30	3.500	0.0312	0.0296	33	0.605	0.186	0.311	2.75	
350T125-33	3.500	0.0346	0.0329	33	0.671	0.207	0.396	3.33	
362T125-18	3.625	0.0188	0.0179	33	0.374	0.116	0.162	1.12	
362T125-30	3.625	0.0312	0.0296	33	0.617	0.19	0.340	2.89	
362T125-33	3.625	0.0346	0.0329	33	0.684	0.211	0.396	3.33	
400T125-18	4.000	0.0188	0.0179	33	0.398	0.123	0.220	1.51	
400T125-30	4.000	0.0312	0.0296	33	0.656	0.201	0.438	3.30	
400T125-33	4.000	0.0346	0.0329	33	0.728	0.224	0.507	3.86	
600T125-30	6.000	0.0312	0.0296	33	0.855	0.263	1.236	5.45	
600T125-33	6.000	0.0346	0.0329	33	0.948	0.294	1.402	6.45	



UMS POWER STUD 20 EQ



power
stud
20EQ

Non Structural (20 EQ) Stud Section Properties - 18 Mil (0.0190)

Member	Design Thickness (in)	Gross Properties							Effective Properties							Torsional Properties						
		F _y (ksi)	Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	M _{ad} (in-k)	V _{a,g} (lb)	V _{a,net} (lb)	J _x 1000 (in ⁴)	C _w (in ⁶)	X ₀ (in)	m (in)	R ₀ (in)	β	L _u (in)
162 S 125-18 (20EQ)	0.0190	70	0.082	0.276	0.038	0.053	0.686	0.016	0.443	0.034	0.039	0.864	0.69	264	150	0.0098	0.008	1.0900	0.628	1.40	0.393	24.8
250 S 125-18 (20EQ)	0.0190	70	0.098	0.336	0.101	0.081	1.01	0.018	0.432	0.100	0.079	1.89	1.690	290	286	0.0120	0.022	0.8686	0.578	1.40	0.615	24.5
350 S 125-18 (20EQ)	0.0190	70	0.117	0.396	0.219	0.125	1.37	0.020	0.416	0.219	0.125	2.80	2.54	373	373	0.0140	0.047	0.7614	0.507	1.62	0.779	24.6
362 S 125-18 (20EQ)	0.0190	70	0.120	0.408	0.238	0.131	1.41	0.020	0.413	0.238	0.131	2.92	2.63	418	418	0.0140	0.050	0.7500	0.500	1.65	0.793	24.3
400 S 125-18 (20EQ)	0.0190	70	0.127	0.432	0.300	0.150	1.54	0.021	0.407	0.300	0.150	3.27	2.88	402	402	0.0154	0.063	0.7190	0.483	1.96	0.865	24.2
600 S 125-18 (20EQ)	0.0190	70	0.164	0.552	0.783	0.261	2.18	0.021	0.369	0.783	0.262	4.42	4.08	409	409	0.0200	0.189	0.6084	0.417	2.36	0.934	23.6



Interior Non-Structural Non-Composite Limiting Heights - Fully Braced

Wind Load			5									7.5									10								
Stud Member	Spacing (in) o.c.	F _v (ksi)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)									
162 S 125-18 (20EQ)	12	70	114.84	9' 6" D	91.15	7' 7" D	79.62	6' 7" D	100.32	8' 4" D	79.62	6' 7" D	69.56	5' 9" D	91.15	7' 7" D	91.15	6' 0" D	63.20	5' 3" D									
	16	70	104.35	8' 8" D	82.88	6' 10" D	72.40	6' 0" D	91.16	7' 7" S	72.40	6' 0" D	63.25	5' 3" D	74.82	6' 2" S	74.82	5' 5" D	57.47	4' 9" D									
	24	70	91.15	7' 7" S	72.34	6' 0" D	63.20	5' 3" D	66.51	5' 6" S	63.20	5' 3" D	48.23	4' 0" S	49.88	4' 1" S	49.88	4' 1" S	49.88	4' 1" S									
250 S 125-18 (20EQ)	12	70	164.32	13' 8" D	130.42	10' 10" D	113.93	9' 5" D	143.54	11' 11" D	113.93	9' 5" D	99.53	8' 3" D	130.42	10' 10" D	103.51	8' 7" D	90.43	7' 6" D									
	16	70	149.30	12' 5" D	118.59	9' 10" D	103.60	8' 7" D	130.41	10' 10" D	103.60	8' 7" D	90.50	7' 6" D	110.67	9' 2" S	94.13	7' 10" D	82.23	6' 10" D									
	24	70	130.42	10' 10" D	103.51	8' 7" D	90.43	7' 6" D	98.37	8' 2" S	90.43	7' 6" D	69.01	5' 9" S	73.78	6' 1" S	73.78	6' 1" S	71.77	5' 11" D									
350 S 125-18 (20EQ)	12	70	213.67	17' 9" D	169.59	14' 1" D	148.15	12' 4" D	186.66	15' 6" D	148.15	12' 4" D	129.42	10' 9" D	169.59	14' 1" D	134.60	11' 2" D	117.59	9' 9" D									
	16	70	194.15	16' 2" D	154.21	12' 10" D	134.72	11' 2" D	169.60	14' 1" D	134.72	11' 2" D	117.69	9' 9" D	134.70	11' 2" D	122.40	10' 2" D	106.92	8' 10" D									
	24	70	169.59	14' 1" D	134.60	11' 2" S	117.59	9' 9" D	119.73	9' 11" S	117.59	9' 9" D	89.74	7' 5" S	89.80	7' 5" S	89.80	7' 5" S	89.80	7' 5" S									
362 S 125-18 (20EQ)	12	70	219.68	18' 3" D	174.36	14' 6" D	152.32	12' 8" D	191.91	15' 11" D	152.32	12' 8" D	133.06	11' 1" D	174.36	14' 6" D	138.39	11' 6" D	120.89	10' 0" D									
	16	70	199.61	16' 7" S	158.55	13' 2" D	128.50	11' 6" D	174.37	14' 6" S	138.50	11' 6" D	120.99	10' 0" D	137.56	11' 5" S	109.93	10' 5" D	109.93	9' 1" D									
	24	70	174.36	14' 6" D	138.39	11' 6" D	120.89	10' 0" D	122.27	10' 2" S	120.89	10' 0" D	92.26	7' 8" S	91.70	7' 7" S	91.70	7' 7" S	91.70	7' 7" S									
400 S 125-18 (20EQ)	12	70	237.30	19' 9" D	188.35	15' 8" D	164.54	13' 8" D	207.30	15' 11" D	164.54	13' 8" D	143.74	11' 11" D	188.35	15' 8" D	149.49	12' 5" D	130.59	10' 10" D									
	16	70	215.62	17' 11" S	171.27	14' 3" D	149.62	12' 5" D	188.36	11' 11" S	149.62	12' 5" D	130.70	10' 10" D	145.57	12' 1" S	135.94	11' 3" D	118.75	9' 10" D									
	24	70	188.35	15' 8" D	149.49	12' 5" D	130.59	10' 10" D	129.39	7' 11" S	129.39	10' 9" S	99.66	8' 3" S	97.04	8' 1" S	97.04	8' 1" S	97.04	8' 1" S									
600 S 125-18 (20EQ)	12	70	326.73	27' 2" D	259.32	21' 7" D	226.54	18' 10" D	285.42	23' 9" D	226.54	18' 10" D	197.90	16' 5" D	226.54	18' 9" S	205.82	17' 1" D	179.80	14' 11" D									
	16	70	296.87	24' 8" S	235.81	19' 7" D	206.00	17' 1" D	225.65	18' 9" S	206.00	17' 1" D	179.95	14' 11" D	169.24	14' 1" S	169.24	14' 1" S	163.50	13' 7" D									
	24	70	225.65	18' 9" S	205.82	17' 1" D	179.80	14' 11" D	150.43	12' 6" S	150.43	12' 6" S	137.22	11' 5" S	112.83	9' 4" S	112.83	9' 4" S	112.83	9' 4" S									

Interior Non-Structural Non-Composite Limiting Heights - Braced at 48" o.c.

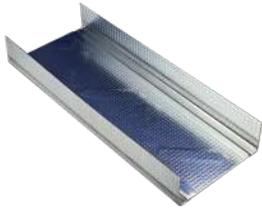
Wind Load			5									7.5									10								
Stud Member	Spacing (in) o.c.	F _v (ksi)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)									
162 S 125-18 (20EQ)	12	70	114.84	9' 6" D	91.15	7' 7" D	79.62	6' 7" D	100.32	8' 4" D	79.62	6' 7" D	69.56	5' 9" D	89.16	7' 5" S	72.34	6' 0" D	63.20	5' 3" D									
	16	70	104.35	8' 8" D	82.88	6' 10" D	72.40	6' 0" D	89.16	7' 5" S	72.40	6' 0" D	63.25	5' 3" S	66.87	5' 6" S	65.78	5' 5" D	57.47	4' 9" D									
	24	70	89.16	7' 5" S	72.34	6' 0" D	63.20	5' 3" D	59.44	4' 11" S	59.44	4' 11" S	55.21	4' 7" S	44.58	3' 8" S	44.58	3' 8" S	44.58	3' 8" S									
250 S 125-18 (20EQ)	12	70	164.32	13' 8" D	130.42	10' 10" D	113.93	9' 5" D	143.54	11' 11" D	113.93	9' 5" D	99.53	8' 3" D	130.42	10' 10" D	103.51	8' 7" D	90.43	7' 6" D									
	16	70	149.30	12' 5" D	118.59	9' 10" D	103.60	8' 7" D	130.43	10' 10" D	103.60	8' 7" D	90.50	7' 6" D	104.65	8' 8" S	94.13	7' 10" D	82.23	6' 10" D									
	24	70	130.42	10' 10" D	103.51	8' 7" D	90.43	7' 6" D	93.02	7' 9" S	90.43	7' 6" D	79.00	6' 6" D	69.77	5' 9" S	69.77	5' 9" S	69.77	5' 9" S									
350 S 125-18 (20EQ)	12	70	213.67	17' 9" D	169.59	14' 1" D	148.15	12' 4" D	186.66	15' 6" D	148.15	12' 4" D	129.42	10' 9" D	169.59	14' 1" D	134.60	11' 2" D	117.59	9' 9" D									
	16	70	194.15	16' 2" D	154.21	12' 10" D	134.72	11' 2" D	169.60	14' 1" D	134.72	11' 2" D	117.69	9' 9" D	128.29	10' 8" S	122.40	10' 2" D	106.92	8' 10" D									
	24	70	169.59	14' 1" D	134.60	11' 2" S	117.59	9' 9" D	114.04	9' 6" S	114.04	9' 6" S	102.72	8' 6" D	85.53	7' 1" S	85.53	7' 1" S	85.53	7' 1" S									
362 S 125-18 (20EQ)	12	70	219.68	18' 3" D	174.36	14' 6" D	152.32	12' 8" D	191.91	15' 11" D	152.32	12' 8" D	133.06	11' 1" D	174.06	14' 6" S	138.39	11' 6" D	120.89	10' 0" D									
	16	70	199.61	16' 7" S	158.55	13' 2" D	128.50	11' 6" D	174.06	14' 6" S	138.50	11' 6" D	120.99	10' 0" D	130.55	10' 10" S	125.84	10' 5" D	109.93	9' 1" D									
	24	70	174.06	14' 6" S	138.39	11' 6" D	120.89	10' 0" D	116.04	9' 8" S	116.04	9' 8" S	105.61	8' 9" D	87.03	7' 3" S	87.03	7' 3" S	87.03	7' 3" S									
400 S 125-18 (20EQ)	12	70	237.30	19' 9" D	188.35	15' 8" D	164.54	13' 8" D	207.30	17' 13" D	164.54	13' 8" D	143.74	11' 11" D	182.15	15' 2" S	149.49	12' 5" D	130.59	10' 10" D									
	16	70	215.62	17' 11" S	171.27	14' 3" D	149.62	12' 5" D	182.15	15' 2" S	149.62	12' 5" D	130.70	10' 10" D	136.61	11' 4" S	135.94	11' 3" D	118.75	9' 10" D									
	24	70	182.35	15' 2" S	149.49	12' 5" D	130.59	10' 10" D	121.43	10' 1" S	121.43	10' 1" S	114.08	9' 6" D	91.07	7' 7" S	97.07	7' 7" S	97.07	7' 7" S									
600 S 125-18 (20EQ)	12	70	326.73	27' 2" D	259.32	21' 7" D	226.54	18' 10" D	285.42	23' 9" D	226.54	18' 10" D	197.90	16' 5" D	216.80	18' 0" S	205.82	17' 1" D	179.80	14' 11" D									
	16	70	296.87	24' 8" S	235.81	19' 7" D	206.00	17' 1" D	216.80	18' 0" S	206.00	17' 1" D	179.95	14' 11" D	162.60	13' 6" S	162.60	13' 6" S	163.50	13' 7" D									
	24	70	214.80	18' 0" S	205.82	17' 1" D	179.80	14' 11" D	144.53	12' 0" S	144.53	12' 0" S	144.53	12' 0" S	108.40	9' 0" S	108.40	9' 0" S	108.40	9' 4" S									





UMS POWER TRACK 20EQ

power
track
20EQ



Non Structural (20 EQ) Track Section Properties - 18 Mil (0.0190 in)

Member	Design Thickness (in)	F _y (ksi)	Area (in ²)	Weight (lb/ft)	Gross Properties			Effective Properties					Torsional Properties						
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	V _{ag} (lb)	J _x 1000 (in ⁴)	C _w (in ⁶)	X ₀ (in)	m (in)	R ₀ (in)	β
162 T 125-18 (20EQ)	0.0190	50	0.078	0.264	0.040	0.046	0.702	0.010	0.404	0.025	0.023	0.511	674	0.009	0.006	0.8528	0.474	1.20	0.495
250 T 125-18 (20EQ)	0.0190	50	0.095	0.324	0.099	0.078	1.02	0.014	0.390	0.075	0.051	0.885	674	0.011	0.017	0.7351	0.472	1.32	0.690
350 T 125-18 (20EQ)	0.0190	50	0.114	0.387	0.213	0.121	1.37	0.015	0.371	0.178	0.091	1.25	674	0.014	0.036	0.6401	0.425	1.56	0.832
362 T 125-18 (20EQ)	0.0190	50	0.116	0.395	0.232	0.126	1.41	0.016	0.369	0.195	0.097	1.30	674	0.013	0.039	0.6301	0.418	1.59	0.843
400 T 125-18 (20EQ)	0.0190	50	0.123	0.418	0.291	0.144	1.54	0.016	0.362	0.247	0.113	2.36	423	0.014	0.049	0.6021	0.446	1.69	0.873
600 T 125-18 (20EQ)	0.0190	50	0.161	0.547	0.769	0.254	2.19	0.017	0.327	0.723	0.232	2.24	666	0.019	0.122	0.4859	0.336	2.26	0.954



UMS POWER STUD 25EQ



power
stud
25EQ

Non Structural (25) Stud Section Properties - 15 Mil (0.0158)

Member	Design Thickness (in)	Gross Properties					Effective Properties										Torsional Properties					
		F _y (ksi)	Area (in ²)	Weight (lb/ft)	I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{x_e} (in ⁴)	S _{x_e} (in ³)	M _a (in-k)	M _{ad} (in-k)	V _{a,g} (lb)	V _{a,net} (lb)	J _x 1000 (in ⁴)	C _w (in ⁶)	X ₀ (in)	m (in)	R ₀ (in)	β	L _u (in)
162 S 125-15 (25EQ)	0.0158	50	0.068	0.231	0.032	0.039	0.686	0.013	0.443	0.026	0.029	0.683	0.570	170	100	0.0060	0.007	0.9993	0.620	1.29	0.401	24.8
250 S 125-15 (25EQ)	0.0158	50	0.082	0.276	0.084	0.067	1.01	0.015	0.432	0.077	0.059	1.03	0.983	250	175	0.0068	0.018	0.9304	0.574	1.50	0.615	24.5
350 S 125-15 (25EQ)	0.0158	50	0.098	0.324	0.184	0.104	1.37	0.017	0.416	0.179	0.101	1.53	0.773	240	240	0.0081	0.039	0.7616	0.502	1.62	0.779	24.6
362 S 125-15 (25EQ)	0.0158	50	0.100	0.336	0.198	0.109	1.41	0.017	0.413	0.195	0.107	1.59	0.773	245	245	0.0082	0.042	0.7502	0.500	1.65	0.793	24.3
400 S 125-15 (25EQ)	0.0158	50	0.105	0.360	0.249	0.125	1.54	0.017	0.407	0.247	0.127	1.79	1.79	284	284	0.0090	0.052	0.7190	0.484	1.75	0.831	24.2



Interior Non-Structural Non-Composite Limiting Heights - Fully Braced

Wind Load			5						7.5						10					
Stud Member	Spacing (in) o.c.	F _y (ksi)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)
162 S (25EQ)	12	50	105.02	8' 9" D	83.35	6' 11" D	72.81	6' 0" D	91.74	7' 7" D	72.81	6' 0" D	63.61	5' 3" D	83.35	6' 11" D	66.16	5' 6" D	57.79	4' 9" D
	16	50	95.42	7' 11" D	75.79	6' 3" D	66.21	5' 6" D	83.36	6' 11" D	66.21	5' 6" D	57.84	4' 9" D	66.53	5' 6" S	60.16	5' 0" D	52.55	4' 4" D
	24	50	83.35	6' 11" D	66.16	5' 6" D	57.79	4' 9" D	59.14	4' 11" S	57.79	4' 9" D	44.10	3' 8" S	44.35	3' 8" S	44.35	3' 8" S	44.35	3' 8" S
250 S (25EQ)	12	50	150.81	12' 6" D	119.70	9' 11" D	104.56	8' 8" D	131.74	10' 11" D	104.56	8' 8" D	91.35	7' 7" D	108.93	9' 0" S	95.00	7' 11" D	82.99	6' 10" D
	16	50	137.03	11' 5" D	108.84	9' 0" D	95.08	7' 11" D	108.93	9' 0" S	95.08	7' 11" D	83.06	6' 11" D	82.70	6' 9" S	81.70	6' 9" S	75.47	6' 3" D
	24	50	108.93	9' 0" S	95.00	7' 11" D	82.99	6' 10" D	72.62	6' 0" S	72.62	6' 0" S	63.34	5' 3" S	54.46	4' 6" S	54.46	4' 6" S	54.46	4' 6" S
350 S (25EQ)	12	50	199.78	16' 7" D	158.56	13' 2" D	138.52	11' 6" D	174.52	14' 6" D	138.52	11' 6" D	121.01	10' 1" D	132.76	11' 0" S	125.85	10' 5" D	109.94	9' 1" D
	16	50	181.66	15' 1" S	144.19	12' 0" D	125.96	10' 5" D	132.76	11' 0" S	125.96	10' 5" D	110.03	9' 2" D	99.57	8' 3" S	99.57	8' 3" S	99.57	8' 3" S
	24	50	132.76	11' 0" S	125.85	10' 5" D	109.94	9' 1" D	88.51	7' 4" S	88.51	7' 4" S	83.90	6' 11" S	66.38	5' 6" S	66.38	5' 6" S	66.38	5' 6" S
362 S (25EQ)	12	50	205.56	17' 1" D	163.15	13' 7" D	142.53	11' 10" D	179.57	14' 11" D	142.53	11' 10" D	124.51	10' 4" D	135.34	11' 3" S	129.50	10' 9" D	113.12	9' 5" D
	16	50	186.78	15' 6" S	148.36	12' 4" D	129.60	10' 9" D	135.34	11' 3" S	128.60	10' 9" D	113.22	9' 5" D	101.50	8' 5" S	101.50	8' 5" S	101.50	8' 5" S
	24	50	135.34	11' 3" S	129.50	10' 9" D	113.12	9' 5" D	90.23	7' 6" S	90.23	7' 6" S	86.33	7' 2" S	67.67	5' 7" S	67.67	5' 7" S	67.67	5' 7" S
400 S (25EQ)	12	50	222.41	18' 6" D	176.53	14' 8" D	154.21	12' 10" D	191.47	15' 11" S	154.21	12' 10" D	134.72	11' 2" D	143.60	11' 11" S	140.11	11' 8" D	122.40	10' 2" D
	16	50	202.09	16' 10" S	158.55	13' 2" S	140.23	11' 8" D	143.60	11' 11" S	140.23	11' 8" D	122.50	10' 2" D	107.70	8' 11" S	107.70	8' 11" S	107.70	8' 11" S
	24	50	143.60	11' 11" S	140.11	11' 8" D	122.40	10' 2" D	95.73	7' 11" S	95.73	7' 11" S	93.41	7' 9" S	71.80	5' 11" S	71.80	5' 11" S	71.80	5' 11" S

Interior Non-Structural Non-Composite Limiting Heights - Braced at 48" o.c.

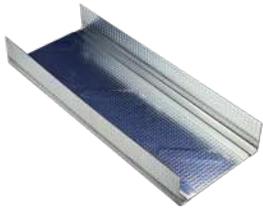
Wind Load			5						7.5						10					
Stud Member	Spacing (in) o.c.	F _y (ksi)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)	L/120	Height (Feet-inch)	L/240	Height (Feet-inch)	L/360	Height (Feet-inch)
162 S (25EQ)	12	50	105.02	8' 9" D	83.35	6' 11" D	72.81	6' 0" D	91.74	7' 7" D	72.81	6' 0" D	63.61	5' 3" D	81.03	6' 9" S	66.16	5' 6" D	57.79	4' 9" D
	16	50	95.42	7' 11" D	75.79	6' 3" D	66.21	5' 6" D	81.03	6' 9" S	66.21	5' 6" D	57.84	4' 9" D	60.77	5' 0" S	60.16	5' 0" D	52.55	4' 4" D
	24	50	81.05	6' 11" S	66.16	5' 6" D	57.79	4' 9" D	54.02	4' 6" S	54.02	4' 9" S	50.49	4' 2" D	40.52	3' 4" S	40.52	3' 4" S	40.52	3' 4" S
250 S (25EQ)	12	50	150.81	12' 6" D	119.70	9' 11" D	104.56	8' 8" D	131.74	10' 11" D	104.56	8' 8" D	91.35	7' 7" D	106.42	8' 10" S	95.00	7' 11" D	82.99	6' 10" D
	16	50	137.03	11' 5" D	108.84	9' 0" D	95.08	7' 11" D	106.42	8' 10" S	95.08	7' 11" D	83.06	6' 11" D	79.81	6' 7" S	79.81	6' 7" S	75.47	6' 3" D
	24	50	106.42	8' 10" S	95.00	7' 11" D	82.99	6' 10" D	70.94	5' 0" S	70.94	5' 10" S	70.94	5' 10" S	53.21	4' 5" S	53.21	4' 5" S	53.21	4' 5" S
350 S (25EQ)	12	50	188.76	15' 8" S	158.56	13' 2" D	138.52	11' 6" D	125.84	10' 5" S	125.84	10' 5" S	121.01	10' 1" D	94.38	7' 10" S	94.38	7' 10" S	94.38	7' 10" S
	16	50	141.57	11' 9" S	141.57	11' 9" S	125.96	10' 5" D	94.38	7' 10" S	94.38	7' 10" S	94.38	7' 10" S	70.78	5' 10" S	70.78	5' 10" S	70.78	5' 10" S
	24	50	94.38	7' 10" S	94.38	7' 10" S	94.38	7' 10" S	62.92	5' 2" S	62.92	5' 2" S	62.92	5' 2" S	47.19	3' 11" S	47.19	3' 11" S	47.19	3' 11" S
362 S (25EQ)	12	50	188.73	15' 8" S	163.15	13' 7" D	142.53	11' 10" D	125.82	10' 5" S	125.82	10' 5" S	124.51	10' 4" D	94.37	7' 10" S	94.37	7' 10" S	94.37	7' 10" S
	16	50	141.55	11' 9" S	141.55	11' 9" S	129.60	10' 9" D	94.37	7' 10" S	94.37	7' 10" S	94.37	7' 10" S	70.77	5' 10" S	70.77	5' 10" S	70.77	5' 10" S
	24	50	94.37	7' 10" S	94.37	7' 10" S	94.37	7' 10" S	62.91	5' 2" S	62.91	5' 2" S	62.91	5' 2" S	47.18	3' 11" S	47.18	3' 11" S	47.18	3' 11" S
400 S (25EQ)	12	50	222.41	18' 6" D	176.53	14' 8" D	154.21	12' 10" D	191.47	15' 11" S	154.21	12' 10" D	134.72	11' 2" D	143.60	11' 11" S	140.11	11' 8" D	122.40	10' 2" D
	16	50	202.09	16' 10" S	158.55	13' 2" S	140.23	11' 8" D	143.60	11' 11" S	140.23	11' 8" D	122.50	10' 2" D	107.70	8' 11" S	107.70	8' 11" S	107.70	8' 11" S
	24	50	143.60	11' 11" S	140.11	11' 8" D	122.40	10' 2" D	95.73	7' 11" S	95.73	7' 11" S	95.73	7' 9" S	71.80	5' 11" S	71.80	5' 11" S	71.80	5' 11" S





power track 25EQ

UMS POWER TRACK 25EQ



Non Structural (25) Track Section Properties - 15 Mil (0.0158)

Member	Design Thickness (in)	F _y (ksi)	Area (in ²)	Weight (lb/ft)	Gross Properties			Effective Properties					Torsional Properties						
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _{xe} (in ⁴)	S _{xe} (in ³)	M _a (in-k)	V _{ag} (lb)	J 1000 (in ⁴)	C _w (in ⁶)	X ₀ (in)	m (in)	R ₀ (in)	β
162 T 125-15 (25EQ)	0.0158	50	0.064	0.22	0.032	0.038	0.702	0.013	0.404	0.017	0.016	0.389	481	0.005	0.005	0.99993	0.8525	1.18	0.478
250 T 125-15 (25EQ)	0.0158	50	0.079	0.268	0.082	0.065	1.02	0.012	0.390	0.057	0.038	0.696	481	0.007	0.014	0.9304	0.7349	1.32	0.690
350 T 125-15 (25EQ)	0.0158	50	0.095	0.324	0.178	0.100	1.37	0.013	0.371	0.137	0.069	0.914	481	0.008	0.030	0.7616	0.6399	1.56	0.832
362 T 125-15 (25EQ)	0.0158	50	0.097	0.328	0.193	0.105	1.41	0.013	0.369	0.151	0.073	0.946	481	0.008	0.033	0.7502	0.6299	1.57	0.839
400 T 125-15 (25EQ)	0.0158	50	0.102	0.348	0.242	0.120	1.54	0.013	0.362	0.194	0.086	1.79	290	0.008	0.041	0.7190	0.6021	1.69	0.873

CERTIFICATE OF COMPLIANCE



This is a certificate of compliance to certify that the bearer has successfully completed the requirements of the above scheme which include the testing of products, the initial assessment, and are subject to continuing annual assessments of their compliance and testing of samples of products taken from production (as applicable to the scheme) and has been registered within the scheme for the products detailed.

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You have been awarded:

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Standards: ASTM C645-18 (2018), AISI S100 (2016), AISI S220 (2020)

Certificate number: WHI23-37729201

Organization: UMS Metal Building Systems USA LLC
11417 Irving Park Rd. Suite Number: B - 16, Franklin Park
Chicago, IL 60131-3882
United States

Product: UMS - Metal Steel Profiles

Spec ID: 73743

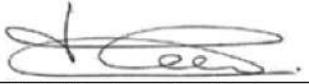
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Certification body: Intertek Testing Services NA, Inc.

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Date of expiry: December 31, 2025

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Authorized By: 
Jean-Philippe Kayl, Director of Certification

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