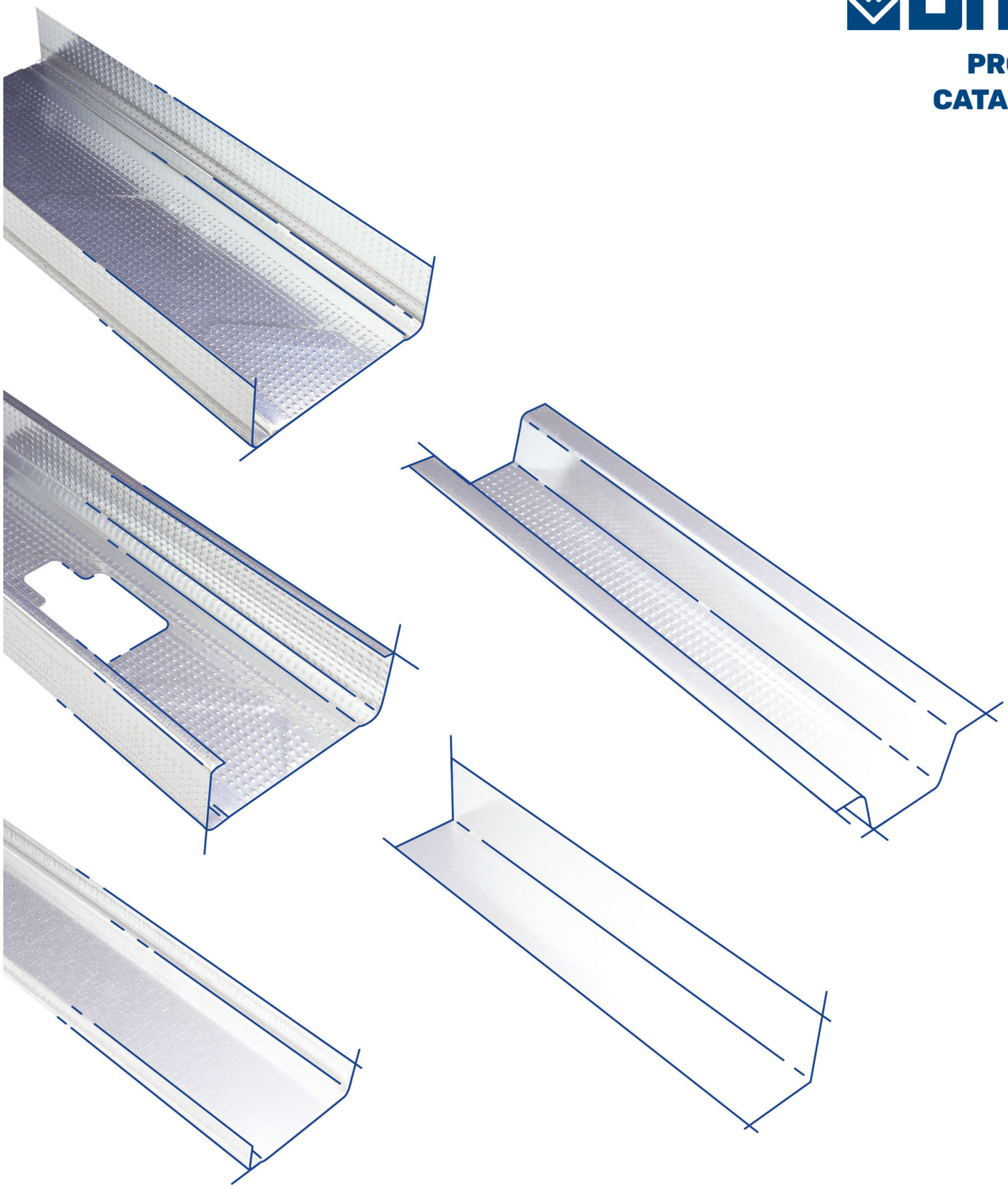
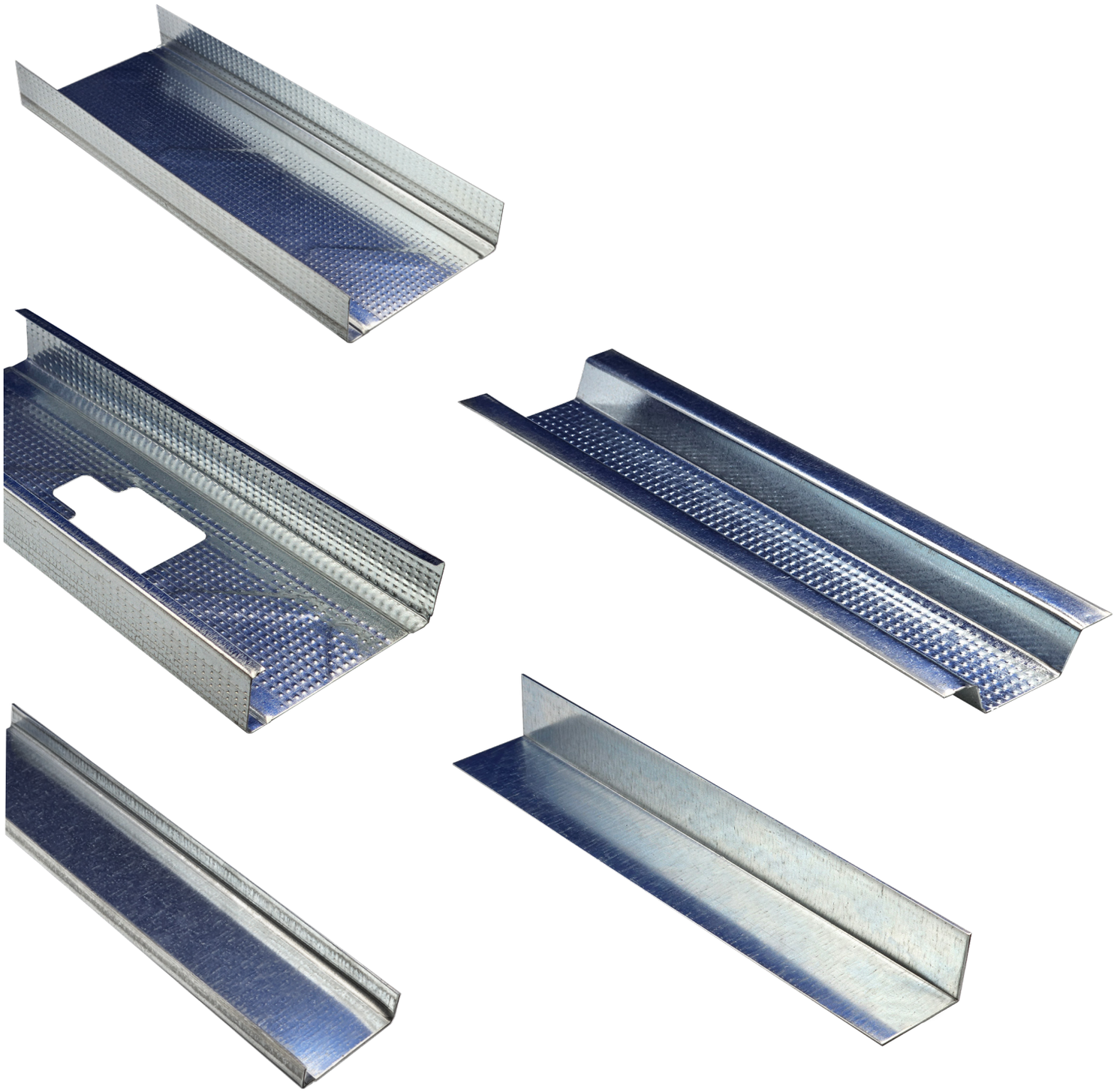
PRODUCT CATALOGUE



UMS METAL BUILDING SYSTEMS USA LLC

www.umsmetal.com

Cold-Formed Non-Structural Steel Members



ABOUT US

UMS Metal, founded in 1999, quickly established itself as a prominent player in the sheet trading industry. With a strong focus on quality and principled business practices, UMS Metal became well-known for its high sales volume. In 2005, UMS Metal made a strategic investment by establishing a modern steel service center, positioning itself as a leader in its field.

The steel service center, equipped with advanced machinery including cut-to-length, trapezoid, and slitting lines, enables UMS Metal to efficiently meet the specific demands for galvanized sheets. UMS Metal takes pride in its commitment to quality, evident by obtaining the quality management certificate.

Driven by determination and an unwavering commitment, UMS Metal continues its production activities with modern and efficient equipment. With an impressive annual production capacity of 120 thousand tonnes, UMS Metal specializes in galvanized steels and non-alloy structural steels suitable for cold forming.

Through continuous growth and investment, UMS Metal has become a leading producer in the industry. Their production lines, introduced in 2013, have significantly expanded their capacity to manufacture plaster profiles, gypsum board profiles, external wall profiles, and accessories. UMS Metal takes pride in being recognized as a company with the fastest production and the highest production volume in their field.

UMS Metal is dedicated to customer satisfaction, providing exceptional after-sales services, and maintaining a reputation for reliability. The company's commitment to innovation, technology, and continuous development sets them apart in the industry, enabling them to deliver a diverse range of products globally.

As a global manufacturer, UMS Metal strives to meet the evolving needs of customers worldwide and remains committed to delivering high-quality products on a global scale.

INDEX

GENERAL PRODUCT TYPE INFORMATION

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

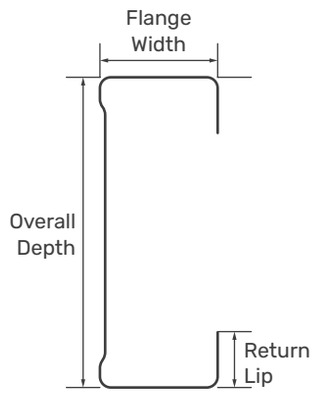
362	S	125	18
Web Depth	**Product Style**	**Flange Width**	**Material Thickness**
362=3.625"	**S:** Stud	**125**=1.25"	18 Mils
	T: Track		
	F: Furring		
	L: Long Angle		
	U: U Channel		

Minimum base steel thickness is 95 % of Design Thickness.

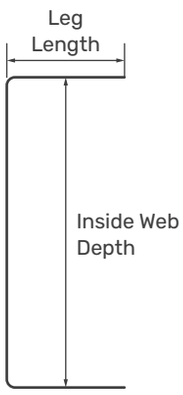
UMS Metal nonstructural framing products have a G40 coating or a minimum standard coating that complies with the requirements of IBC 2021 and ASTM A1003/ A1003M. G60 and G90 coatings are available upon request.

General Product Information

Stud



Track



Furring Channel

U Channel

Long Angle

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:

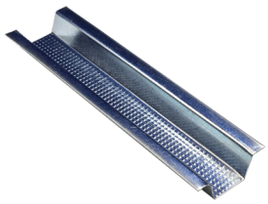
- **ASTM A1003** *Standard Specification for Steel Sheet, Carbon, Metallic and Nonmetallic Coated for Cold Formed Framing Members.*
- **ASTM A653** *Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.*
- **ASTM C754** *Standard 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 locak or distortional buckling. For distortional buckling, K_{ϕ} = 0 and ß = 1.0
10. Where noted, member height-to-thickness exceeds 200, web stiffeners required at supports.

UMS METAL FURRING CHANNEL

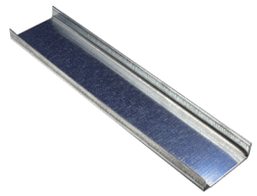
furring channel



					Gross Properties	Effective Properties	
Section Designation	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Area (in^2)	I_{xe} (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

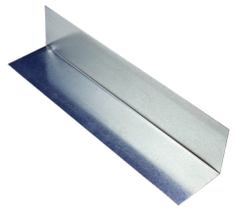
UMS METAL U CHANNEL

U channel



					Gross Properties	Effective Properties	
	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Area (in^2)	I_{xe} (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

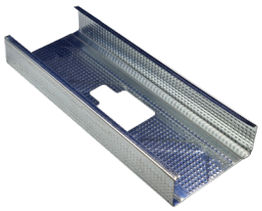


long angle

						Gross Properties	Effective Properties	
Section Designation	Equal Leg Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Area (in^2)	I_{xe} (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

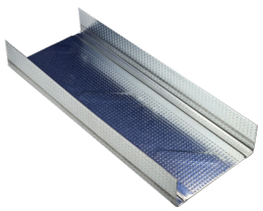
UMS METAL DRYWALL STUD

drywall stud



						Gross Properties	Effective Properties	
Section Designation	Stud Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	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

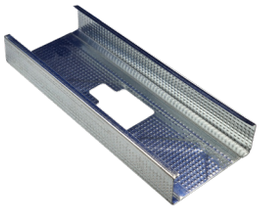


drywall track

Section Designation	Track Depth (in)	Design Thickness (in)	Minimum Base Steel Thickness (in)	Fy (ksi)	Weight (lb/ft)	Gross Properties Area (in²)	Effective Properties I_{xe} (in⁴)	Effective Properties 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

power stud 20EQ

UMS POWER STUD 20 EQ



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

			Gross Properties							Effective Properties					Torsional Properties						
Member	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	I_x (in4)	S_x (in^3)	Rx (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_x1000 (in^4)	C_w (in6)	X_0 (in)	m (in)	R_0 (in)	ß	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

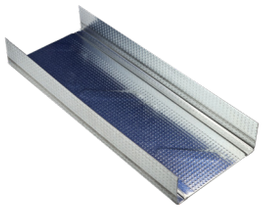
Wind Load			5									7.5									10								
Stud Member	Spacing (in) o.c.	F_y (ksi)	L/120	Height (Feet-inch)		L/240	Height (Feet-inch)		L/360	Height (Feet-inch)		L/120	Height (Feet-inch)		L/240	Height (Feet-inch)		L/360	Height (Feet-inch)		L/120	Height (Feet-inch)		L/240	Height (Feet-inch)		L/360	Height (Feet-inch)	
162 S	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
125-18	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
(20EQ)	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	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
125-18	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
(20EQ)	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	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
125-18	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"	S	122.40	10' 2"	D	106.92	8' 10"	D
(20EQ)	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	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
125-18	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
(20EQ)	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	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
125-18	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
(20EQ)	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	12	70	326.73	27' 2"	D	259.32	21' 7"	D	226.54	18' 10"	D	285.42	23' 9"	D	225.54	18' 10"	D	197.90	16' 5"	D	225.65	18' 9"	S	205.82	17' 1"	D	179.80	14' 11"	D
125-18	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
(20EQ)	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	122.83	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_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	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
125-18	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
(20EQ)	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"	D	44.58	3' 8"	S	44.58	3' 8"	S	44.58	3' 8"	S
250 S	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
125-18	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
(20EQ)	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	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
125-18	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
(20EQ)	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	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
125-18	16	70	199.61	16' 7"	S	158.55	13' 2"	D	138.50	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
(20EQ)	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"	D	105.61	8' 9"	D	87.03	7' 3"	S	87.03	7' 3"	S	87.01	7' 3"	S
400 S	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
125-18	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
(20EQ)	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	91.07	7' 7"	S
600 S	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
125-18	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
(20EQ)	24	70	214.80	18' 0"	S	205.82	17' 1"	D	179.80	14' 11"	D	144.53	12' 0"	S	144.43	12' 6"	S	144.53	12' 0"	S	108.40	9' 0"	S	108.40	9' 0"	S	108.40	9' 4"	S

power track 20EQ

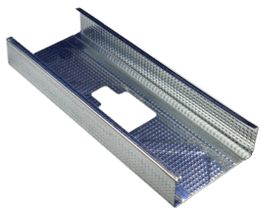
UMS POWER TRACK 20EQ



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

					Gross Properties					Effective Properties				Torsional Properties					
Member	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	I_x (in4)	S_x ($in^{3)}$	Rx (in)	I_y (in^4)	R_y (in)	I_{xe} (in^4)	S_{xe} (in^3)	M_a (in-k)	$V_{a,g}$ (lb)	J_x1000 (in^4)	C_w (in6)	X_o (in)	m (in)	R_o (in)	ß
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 Stuctural (25) Stud Section Properties - 15 Mil (0.0158)

			Gross Properties							Effective Properties						Torsional Properties					
Member	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	I_x (in^4)	S_x (in^3)	Rx (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)	ß	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

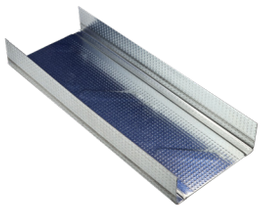
Interior Non-Structural Non-Composite Limiting Heights - Fully Braced

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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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	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
125-15	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
(25EQ)	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

UMS POWER TRACK 25EQ



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

					Gross Properties					Effective Properties				Torsional Properties					
Member	Design Thickness (in)	F_y (ksi)	Area (in^2)	Weight (lb/ft)	I_x (in^4)	S_x (in^3)	Rx (in)	I_y (in^4)	R_y (in)	I_{xe} (in^4)	S_{xe} (in^3)	M_a (in-k)	$V_{a,g}$ (lb)	J_x 1000 (in^4)	C_w (in^6)	X_o (in)	m (in)	R_o (in)	ß
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	0.9993	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

intertek
Total Quality. Assured.

Certificate of Compliance

ETL LISTED US
Intertek

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.

You have been awarded:

Intertek ETL US Mark for Other Products

Standards: ASTM C645-18 (2018)

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
Listing Information: See following page(s)

Certification body: Intertek Testing Services NA, Inc.
Initial registration: August 31, 2023
Date of expiry: December 31, 2024
Issue status: 2

Authorized By: _____
Jean-Philippe Kayl, Director of Certification

Intertek Testing Services NA, Inc.
545 E. Algonquin Road, Ste H., Arlington Heights, IL 60005 USA
Phone: 847-439-5667 Fax: 847-439-7320

The certificate and schedule are held in force by regular annual surveillance visits by Intertek Testing Services NA, Inc. and the reader or user should contact Intertek to validate its status. This certificate remains the property of Intertek Testing Services NA, Inc. and must be returned to them on demand. This Certificate is for the exclusive use of Intertek's Client and is provided pursuant to the Certification agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this certificate. Only the Client is authorized to permit copying or distribution of this certificate and then only in its entirety. Use of Intertek's Certification mark is restricted to the conditions laid out in the agreement. Any further use of the Intertek name for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. Initial Factory Assessments and Follow up Services are for the purpose of assuring appropriate usage of the Certification mark in accordance with the agreement, they are not for the purposes of production quality control and do not relieve the Client of their obligations in this respect.

PRODUCT CATALOGUE

UMS METAL BUILDING SYSTEMS USA LLC

www.umsmetal.com

11417 Irving Park Rd.
Suite Number: B-16,
Franklin Park, IL 60131-3882

630-426-6955

www.umsmetal.us

08/24 UMS METAL - The technical content of this product catalogue is effective 08/15/24