



Steel Members Brochure

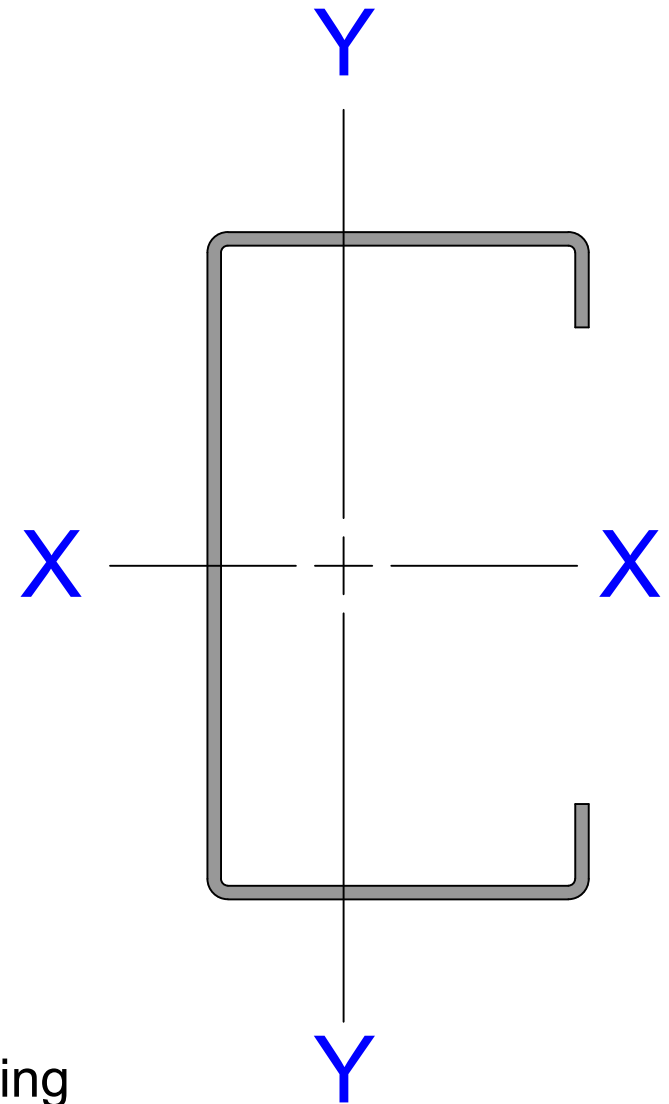
Quick Reference

Gross Properties

I_x	Moment of inertia of cross section about X
S_x	Section modulus about X
R_x	Radius of gyration of cross section about X
I_y	Moment of inertia of cross section about Y
R_y	Radius of gyration of cross section about Y

Effective Properties

I_x	Effective moment of inertia about X
M_d	Allowable moment based on local buckling
M_{da}	Allowable moment based on distortional buckling *assuming $K\phi = 0$



Information

Members

The members represented in this publication are typically produced in G60, grade 50 cold formed steel. G90 is available upon request but may require longer lead times.

Documentation

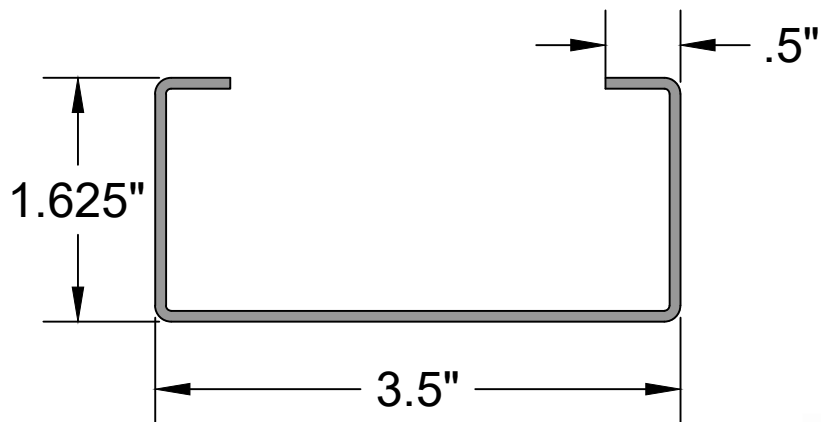
This document is subject to change without notice. Please contact B&M Metals to make sure that you have the latest edition of this document.

Service Holes

Service holes in studs can be punched upon request. In the event that spacing for the service holes is not specified, they will be punched on 3 foot centers. Please contact B&M Metals for custom hole spacing or more details.

Steel Members Documentation

3 1/2" x 1 5/8" Stud

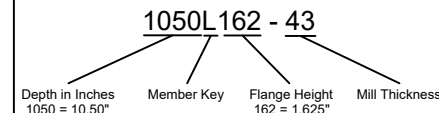


6195 Hwy 52 East
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Office: (706) 864-6068
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Member specs and limits

Name:	350S162
Depth:	3.5"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S = Stud (C Shaped)
- L = Lintel (L Shaped)
- T = Track (U Shaped)
- I = I-Beam (I Shaped)
- A = Angle (2 Legs, 1 Angle)
- H = Hat (Top Hat Shaped)
- B = Box (Rectangle Shaped)
- F = Strap/Flat (Flat Shaped)
- Z = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil Flat Width
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	
362S162-25	24	50	.14126	.6367	.3710	.21203	1.4113	.0721	.9364	.35057	417.68	367.54	7.5139"
362S162-30	22	50	.26109	.7628	.4188	.23936	1.4071	.0812	.6189	.41889	548.34	472.48	7.4758"
362S162-33	20	50	.25780	.8826	.5084	.29051	1.4043	.0982	.6171	.50840	638.56	573.59	7.4507"
362S162-43	18	50	.33413	1.137	.6546	.37405	1.3997	.1254	.6126	.65459	841.36	816.45	7.4086"
362S162-54	16	50	.41484	1.412	.8047	.45982	1.3927	.1525	.6063	.80468	1215.7	1167.3	7.3923"
362S162-68	14	50	.51479	1.752	.9851	.56293	1.3834	.1840	.5978	.98513	1574.6	1571.3	7.2201"
362S162-97	12	50	.71130	2.421	1.322	.75558	1.3634	.2392	.5799	1.3223	2230.3	2230.3	6.9941"
											Nominal	7.45"	

*All calculations based on unpunched stud

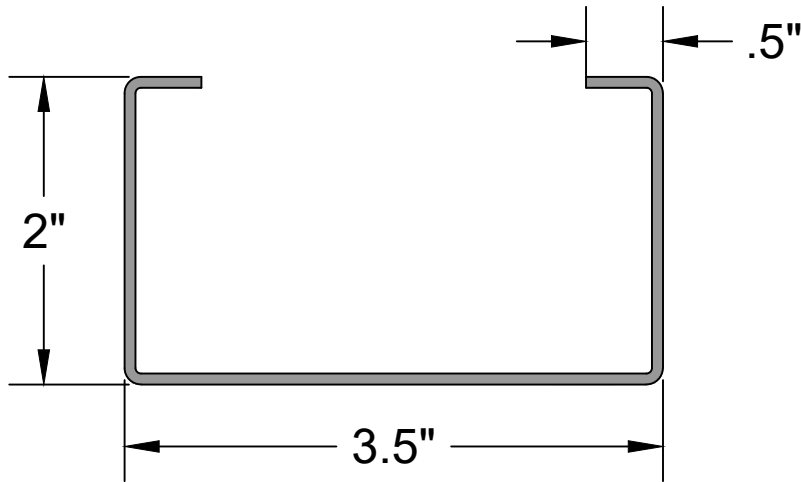
** Full Sectional properties available upon request

350S162

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

3 1/2" x 2" Stud

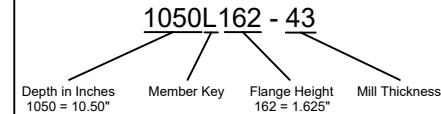


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Member specs and limits

Name:	350S200
Depth:	3.5"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
350S200-25	24	50	.2058	.639	.4277	.2443	1.4414	.1179	.7432	.3881	434.4	347.2	8.233"
350S200-30	22	50	.2465	.838	.5107	.2918	1.4393	.1404	.7548	.4792	568.2	493.9	8.225"
350S200-33	20	50	.2924	.995	.5984	.3420	1.4306	.1746	.7529	.5717	705.3	650.9	8.200"
350S200-43	18	50	.3792	1.29	.7713	.4407	1.4261	.2238	.7683	.7713	975.9	927.4	8.158"
350S200-54	16	50	.4714	1.60	.9500	.5430	1.4197	.2737	.7620	.9502	1233	1238	8.079"
350S200-68	14	50	.5861	1.99	1.166	.6668	1.4110	.3328	.7535	1.166	1779	1767	7.970"
350S200-97	12	50	.8130	2.77	1.576	.9008	1.3925	.4398	.7355	1.576	2589	2589	7.744"
											Nominal	8.2"	

*All calculations based on unpunched stud

** Full Sectional properties available upon request

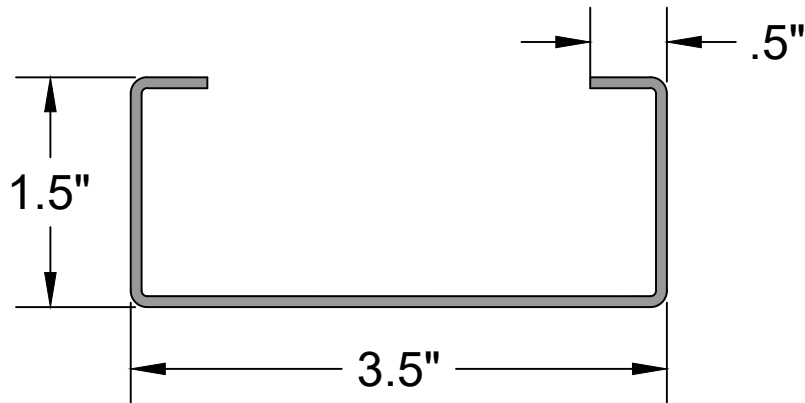
350S200

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

3 1/2" x 1 1/2" Stud

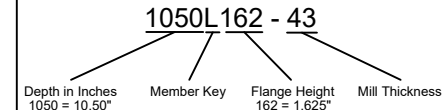


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Member specs and limits

Name:	350S150
Depth:	3.5"
Flange:	1.5"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
350S150-25	24	50	.1808	.6150	.3370	.1647	1.3950	.0678	.5749	.3370	410.97	360.39	7.2639"
350S150-30	22	50	.2165	.7368	.4204	.2402	1.3934	.0711	.5728	.4133	533.92	463.44	7.2258"
350S150-33	20	50	.2730	.9290	.5272	.3013	1.3897	.0885	.5693	.5272	687.69	636.46	7.2007"
350S150-43	18	50	.3429	1.167	.6580	.3760	1.3852	.1094	.5649	.6580	918.11	864.38	7.1586"
350S150-54	16	50	.4034	1.373	.7674	.4385	1.3792	.1264	.5597	.7674	1094.0	1067.8	7.0793"
350S150-68	14	50	.5016	1.707	.9403	.5373	1.3692	.1522	.5508	.9403	1340.7	1340.7	6.9701"
350S150-97	12	50	.6597	2.244	1.208	.6904	1.3533	.1899	.5366	1.2082	1722.5	1722.5	6.7441"
											Nominal	7.45"	

*All calculations based on unpunched stud

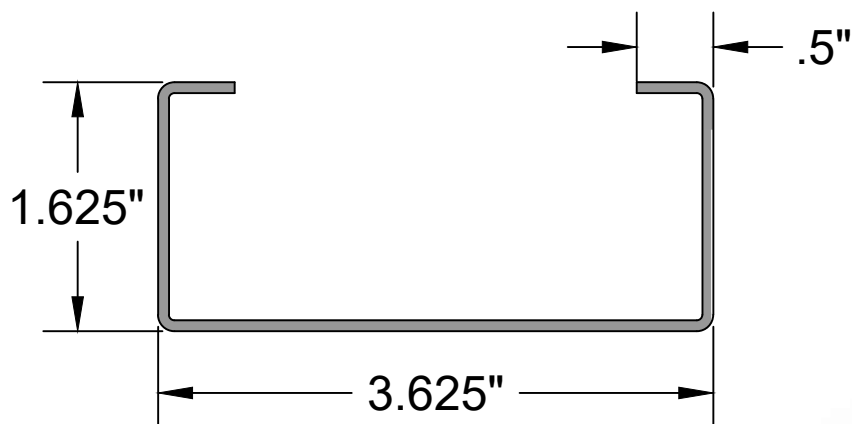
** Full Sectional properties available upon request

350S150

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

3 5/8" x 1 5/8" Stud

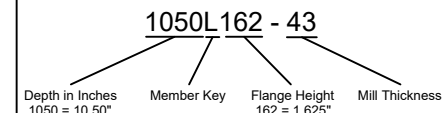


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Member specs and limits

Name:	362S162
Depth:	3.625"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
362S162-25	24	50	.1902	.6473	.1902	.2219	1.4541	.0730	.6195	.3807	432.60	381.67	7.6389"
362S162-30	22	50	.2278	.7751	.4803	.2650	1.4521	.0868	.6175	.4668	574.84	490.91	7.6008"
362S162-33	20	50	.2873	.9774	.6026	.3325	1.4484	.1083	.6139	.6026	735.73	676.10	7.5757"
362S162-43	18	50	.3609	1.228	.7525	.4152	1.4439	.1341	.6095	.7525	959.36	921.54	7.5336"
362S162-54	16	50	.4248	1.445	.8784	.4846	1.4380	.1551	.6042	.8784	1175.7	1142.9	7.4543"
362S162-68	14	50	.5286	1.799	1.078	.5948	1.4282	.1873	.5953	1.078	1484.1	1484.1	7.3451"
362S162-97	12	50	.7095	2.414	1.413	.7799	1.4115	.2387	.5800	1.413	1945.8	1945.8	7.1191"
											Nominal	7.45"	

*All calculations based on unpunched stud

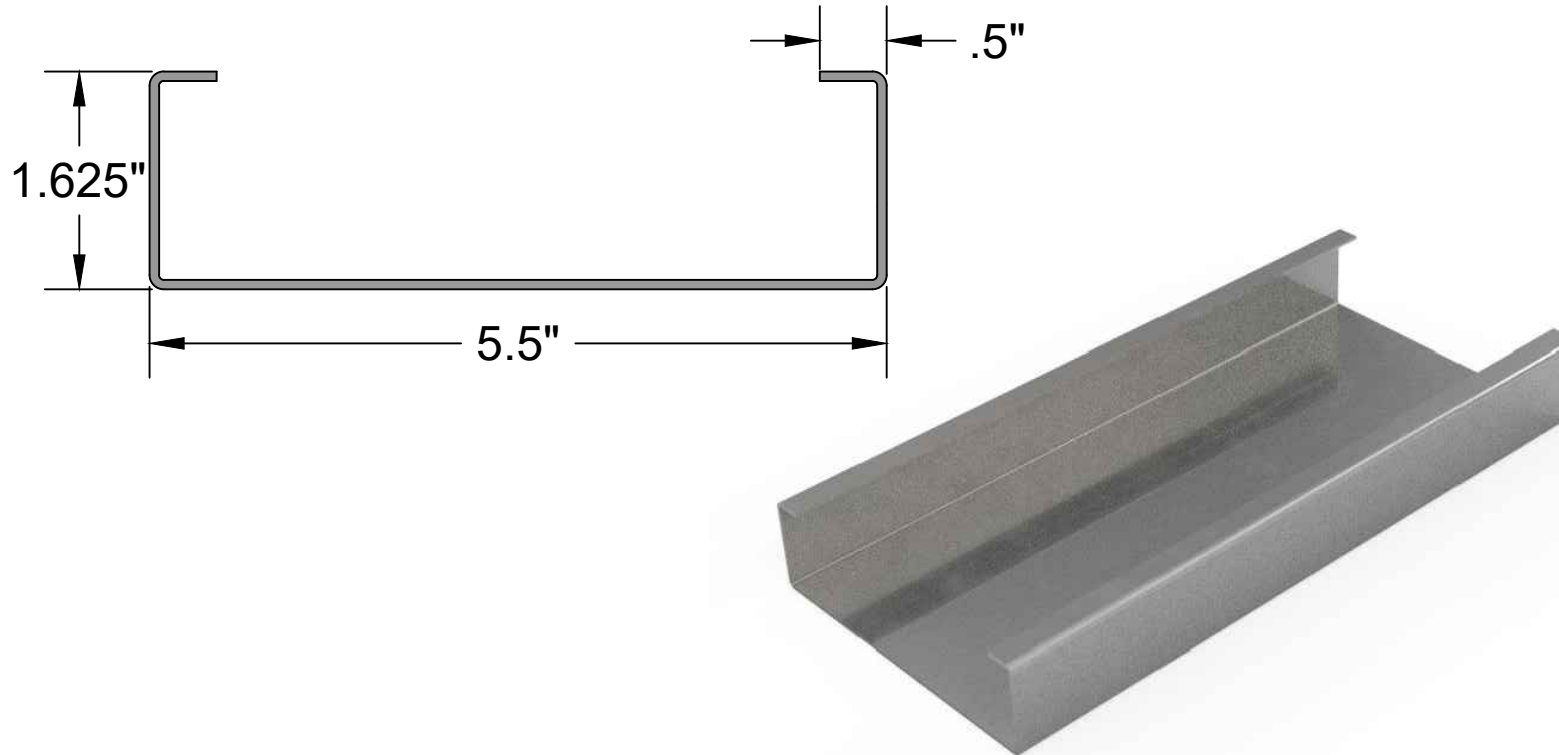
** Full Sectional properties available upon request

362S162

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

5 1/2" x 1 5/8" Stud

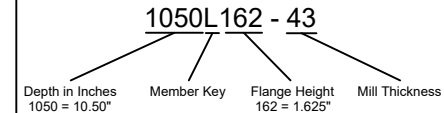


6195 Hwy 52 East
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Member specs and limits

Name:	550S162
Depth:	5.5"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
550S162-25	24	50	.2371	.8068	1.0620	.3862	2.1164	.0833	.5928	1.0182	656.29	591.74	9.5139"
550S162-30	22	50	.2840	.9665	1.2695	.4616	2.1142	.0991	.5908	1.2502	898.96	766.36	9.4758"
550S162-33	20	50	.3585	1.2199	1.5961	.5804	2.1100	.1236	.5871	1.5961	1235.6	1067.0	9.4507"
550S162-43	18	50	.4509	1.534	1.9980	.7265	2.1049	.1531	.5826	1.9980	1689.5	1473.2	9.4086"
550S162-54	16	50	.5317	1.809	2.3397	.8508	2.0978	.1771	.5772	2.3397	2065.1	1849.6	9.3293"
550S162-68	14	50	.6636	2.2581	2.8871	1.049	2.0858	.2141	.5680	2.8871	2619.4	2496.4	9.2201"
550S162-97	12	50	.8951	3.046	3.8204	1.389	2.0659	.2731	.5523	3.8204	3466.2	3466.2	8.9941"
											Nominal	9.5"	

*All calculations based on unpunched stud

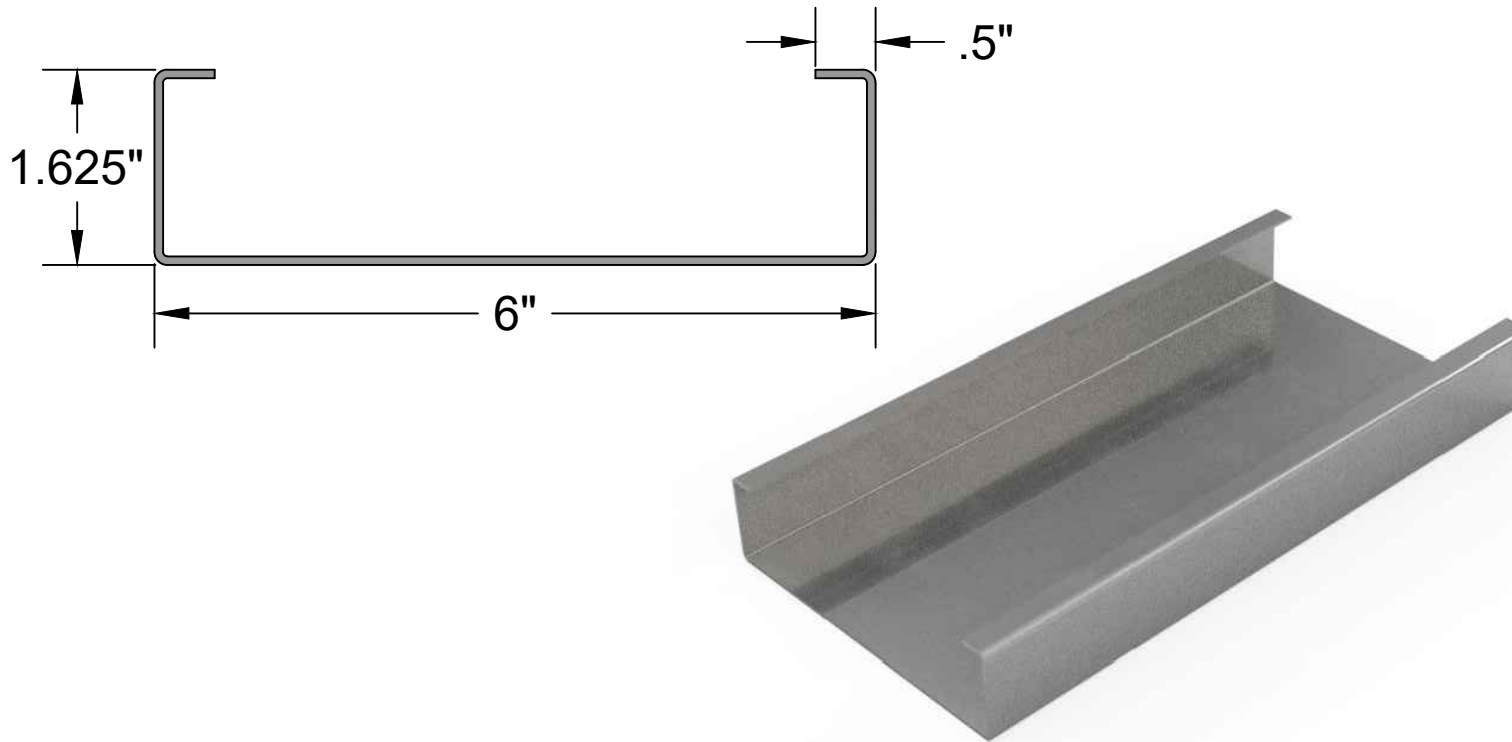
** Full Sectional properties available upon request

550S162

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

6" x 1 5/8" Stud

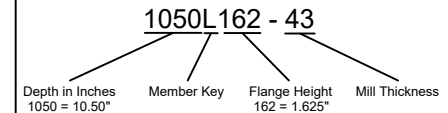


6195 Hwy 52 East
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Office: (706) 864-6068
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Member specs and limits

Name:	600S162
Depth:	6"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
600S162-25	24	50	.2496	.84930	1.3049	.4350	2.2865	.0854	.5850	1.2231	716.14	645.540	10.014"
600S162-30	22	50	.2990	1.0175	1.5602	.5201	2.2842	.1016	.5829	1.5413	978.96	837.420	9.9750"
600S162-33	20	50	.3775	1.2845	1.9622	.6541	2.2799	.1267	.5793	1.9622	1372.2	1168.90	9.9507"
600S162-43	18	50	.4749	1.6161	2.4574	.8191	2.2747	.1569	.5748	2.4574	1908.4	1618.96	9.9086"
600S162-54	16	50	.5602	1.9061	2.8793	.9598	2.2672	.1816	.5693	2.8794	2330.8	2038.42	9.8293"
600S162-68	14	50	.6996	2.3806	3.5567	1.185	2.2548	.2195	.5601	3.5567	2958.0	2764.00	9.7201"
600S162-97	12	50	.9446	3.2143	4.7145	1.571	2.2340	.2799	.5444	4.7145	3920.9	3920.90	9.4901"
										Nominal		10"	

*All calculations based on unpunched stud

** Full Sectional properties available upon request

600S162

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

6" x 2" Stud

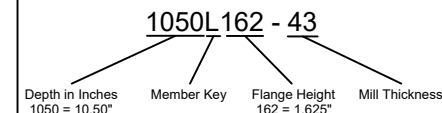


6195 Hwy 52 East
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Member specs and limits

Name:	600S200
Depth:	6"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
600S200-30	22	50	.3215	1.094	1.7607	.5869	2.340	.1674	.7216	1.6953	989.27	869.52	10.726"
600S200-33	20	50	.4060	1.381	2.2155	.7385	2.336	.2093	.7180	2.1517	1394.7	1216.4	10.701"
600S200-43	18	50	.5109	1.738	2.7763	.9254	2.331	.2601	.7134	2.7415	1980.3	1689.7	10.659"
600S200-54	16	50	.6029	2.051	3.2569	1.085	2.324	.3021	.7078	3.2507	2401.6	2135.3	10.579"
600S200-68	14	50	.7536	2.564	4.0311	1.343	2.312	.3676	.6984	4.0311	3192.2	2915.6	10.470"
600S200-97	12	50	10.18	3.467	5.3609	1.787	2.293	.4745	.6824	5.3609	4417.5	4391.5	10.244"
												Nominal	10.75"

Mill - Gauge Bend Radius

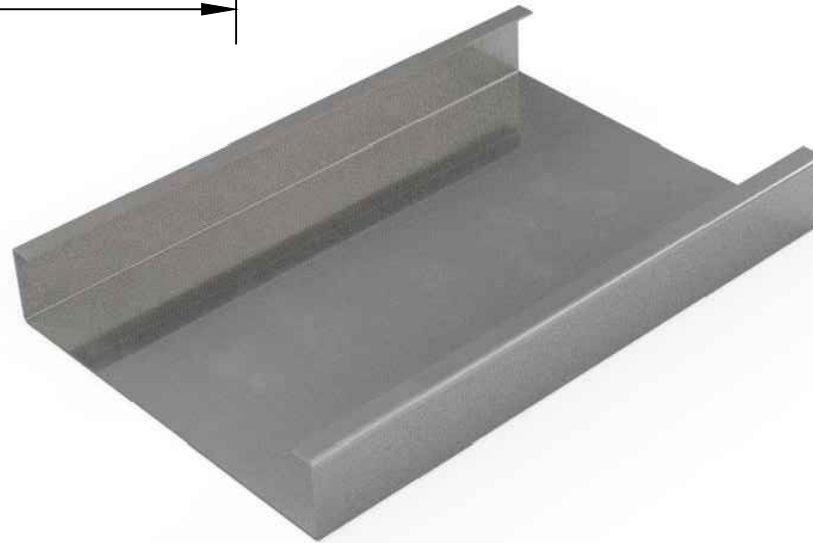
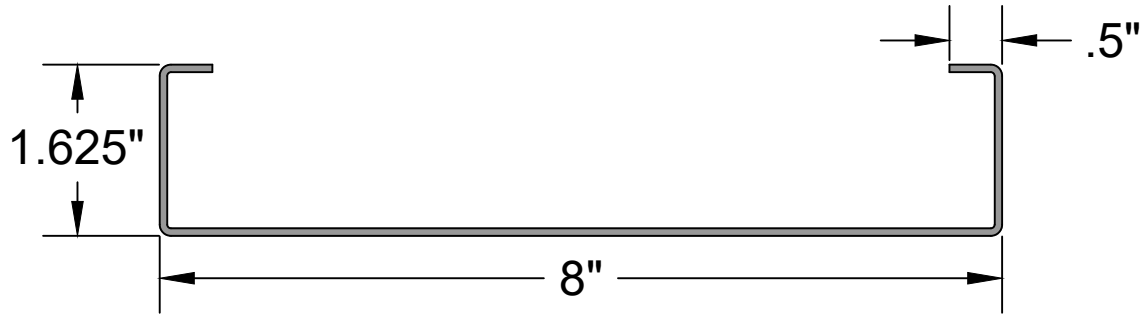
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

600S200

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

8" x 1 5/8" Stud

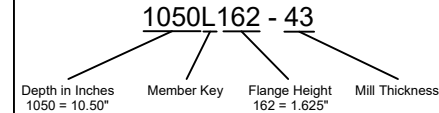


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	800S162
Depth:	8"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
800S162-43	18	50	.5709	1.943	4.919	1.2297	2.9352	.1691	.5442	4.7269	2395.0	2169.9	11.909"
800S162-54	16	50	.6742	2.294	5.774	1.4436	2.9266	.1956	.5387	5.6412	3059.2	2761.7	11.829"
800S162-68	14	50	.8436	2.870	7.154	1.7887	2.9122	.2365	.5294	7.1405	4197.7	3810.4	11.720"
800S162-97	12	50	1.142	3.888	9.533	2.3834	2.8885	.3015	.5137	9.5336	5946.6	5821.3	11.494"
											Nominal	11.10"	

Mill - Gauge | Bend Radius

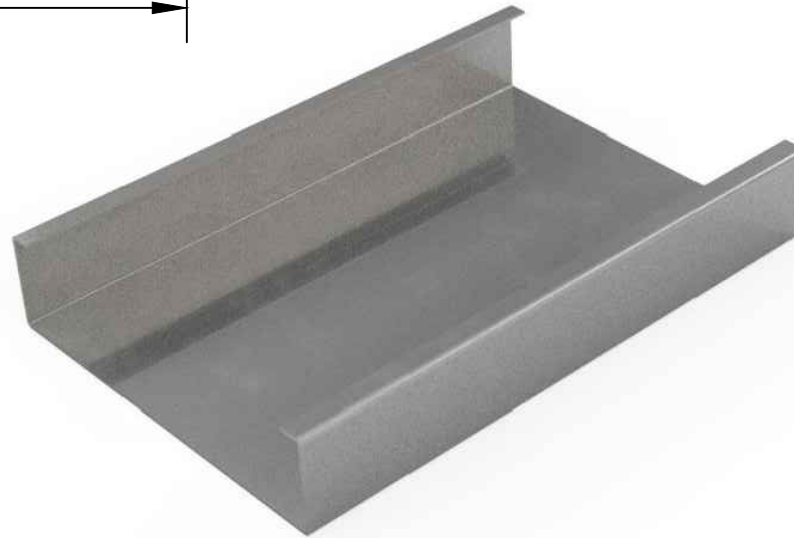
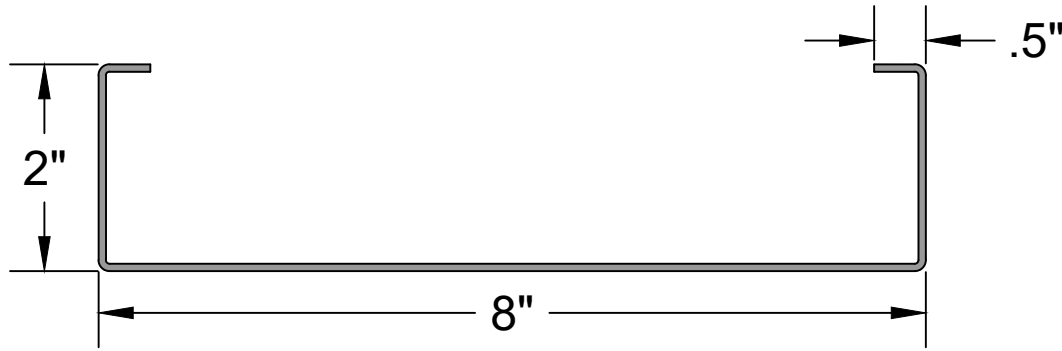
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

800S162

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

8" x 2" Stud

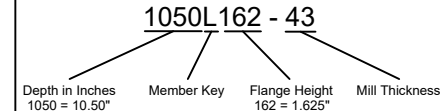


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	800S200
Depth:	8"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
800S200-43	18	50	.6069	2.0653	5.4881	1.3720	3.007	.2817	.6813	5.4838	2632.7	2279.2	12.659"
800S200-54	16	50	.7169	2.4395	6.4485	1.6121	2.999	.3272	.6756	6.4448	3530.9	2904.4	12.579"
800S200-68	14	50	.8976	3.0543	8.0032	2.0008	2.986	.3982	.6661	8.0032	4771.4	4019.0	12.470"
800S200-97	12	50	1.216	4.1407	10.692	2.6731	2.964	.5141	.6500	10.692	6612.0	6189.7	12.244"
											Nominal	12.66"	

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

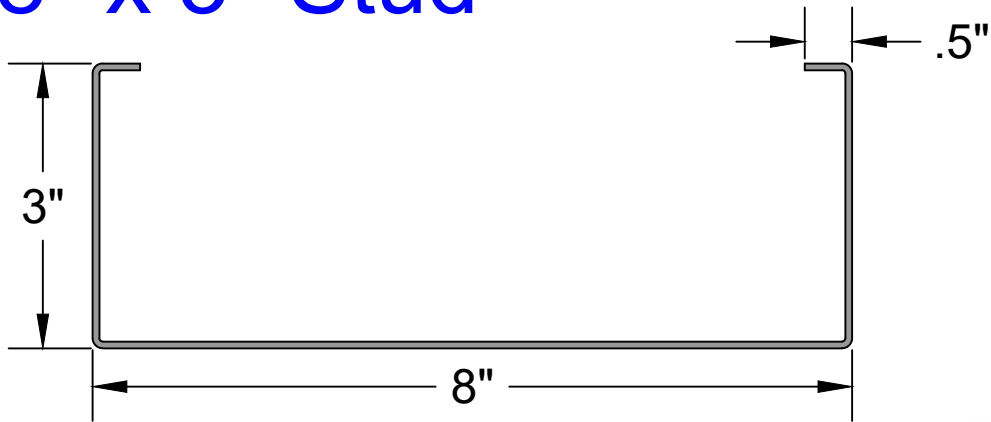
800S200

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

8" x 3" Stud

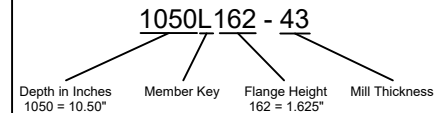


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	800S300
Depth:	8"
Flange:	3"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
800S300-43	18	50	.7029	2.3919	7.0057	1.7514	3.1570	.7695	1.0463	6.367	2670.4	2410.1	14.659"
800S300-54	16	50	.8309	2.8274	8.2466	2.0617	3.1504	.8993	1.0404	7.5483	3578.3	3083.3	14.579"
800S300-68	14	50	1.014	3.5443	10.266	2.5670	3.1394	1.106	1.0305	9.7046	5135.1	4299.4	14.470"
800S300-97	12	50	1.414	4.8145	13.783	3.4456	3.1211	1.454	1.0137	13.497	7540.6	6735.5	14.244"
											Nominal	16.66"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

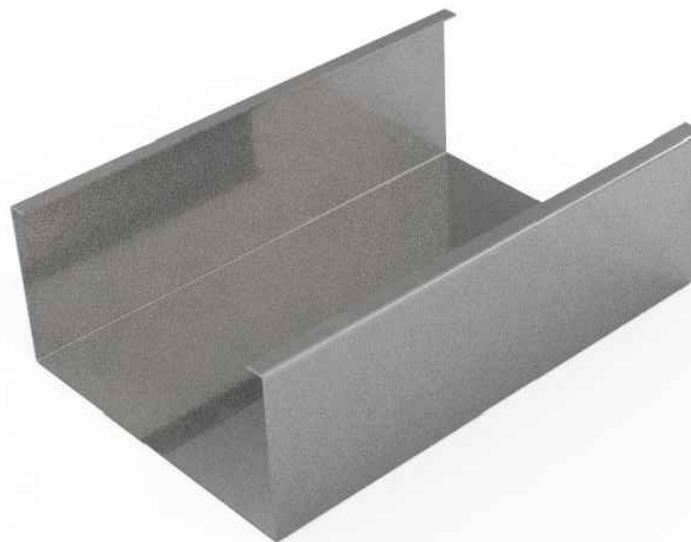
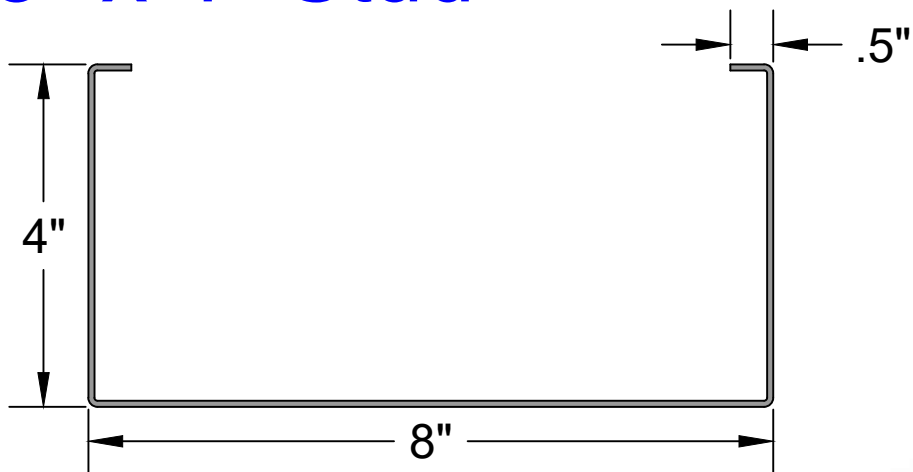
800S300

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

8" x 4" Stud

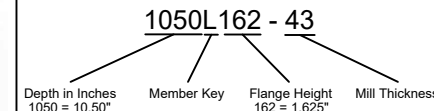


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	800S400
Depth:	8"
Flange:	4"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _a (ft-lb)	M _{da} (ft-lb)	Flat Width
800S400-43	18	50	.75131	2.733	8.023	2.0057	3.2678	1.489	1.4077	5.4058	2156	2035	16.659"
800S400-54	16	50	.93839	3.246	9.977	2.4943	3.2607	1.840	1.4004	8.4447	3519	3413	16.579"
800S400-68	14	50	1.1884	4.043	12.57	3.1434	3.2550	2.303	1.3923	10.829	5349	4423	16.470"
800S400-97	12	50	1.6129	5.488	16.87	4.2181	3.2344	3.040	1.3730	15.463	7923	6980	16.244"
											Nominal	16.66"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

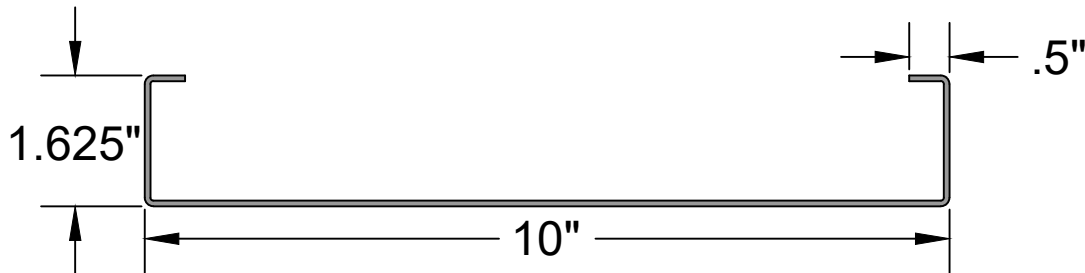
800S400

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

10" x 1 5/8" Stud

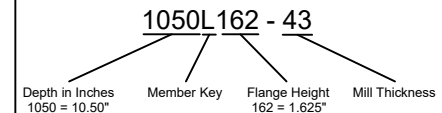


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1000S162
Depth:	10"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1000S162-43	18	50	.6669	2.2694	8.5224	1.7045	3.5747	.1777	.5162	7.8802	3045.1	2644.3	13.909"
1000S162-54	16	50	.7882	2.6819	10.174	2.0035	3.5651	.2056	.5107	9.4625	3960.8	3399.2	13.829"
1000S162-68	14	50	.9876	3.3606	12.439	2.4880	3.5491	.2485	.5016	12.103	5439.8	4763.5	13.720"
1000S162-97	12	50	1.340	4.5618	16.637	3.3276	3.5229	.3167	.4861	16.637	7933.6	7467.1	13.494"
Nominal												13.9"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

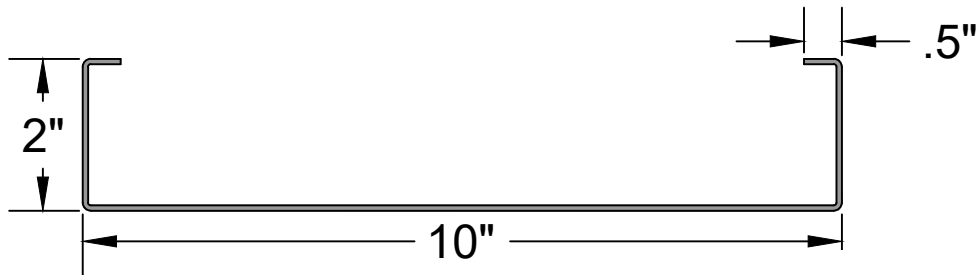
1000S162

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

10" x 2" Stud

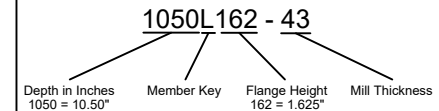


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1000S200
Depth:	10"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1000S200-43	18	50	.6237	2.110	8.0364	1.6073	3.6612	.1827	.6521	8.0364	NA	NA	14.659"
1000S200-54	16	50	.8309	2.827	11.074	2.2148	3.6507	.3455	.6448	10.597	4009.8	3616	14.579"
1000S200-68	14	50	1.041	3.544	13.770	2.7510	3.6360	.4202	.6353	13.476	5769.3	5062	14.470"
1000S200-97	12	50	1.414	4.814	18.457	3.6915	3.6119	.5426	.6193	18.457	8753.4	7956	14.244"
											Nominal	14.7"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

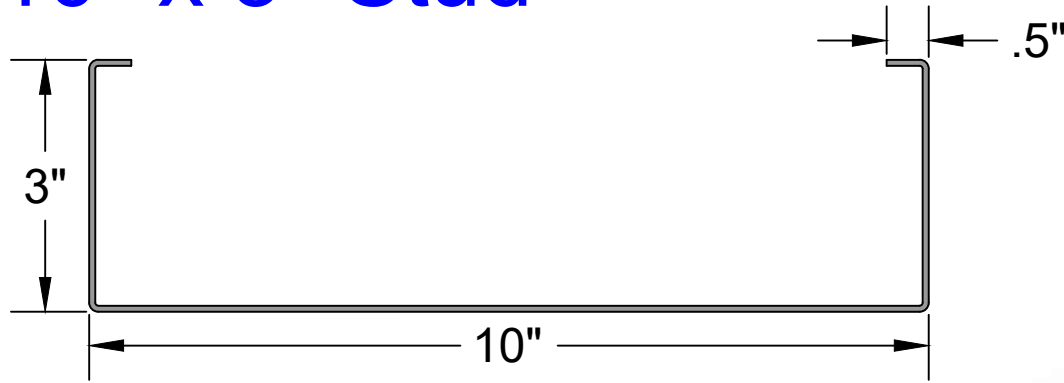
1000S200

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

10" x 3" Stud

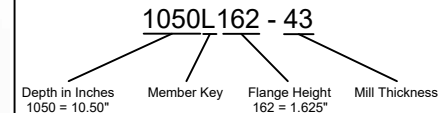


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1000S300
Depth:	10"
Flange:	3"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1000S300-43	18	50	.7989	2.7186	11.79	2.358	3.8416	.8197	1.012	10.920	3329	3023.1	16.659"
1000S300-54	16	50	.9449	3.2153	13.95	2.778	3.8343	.9580	1.006	12.949	4436	3886.6	16.579"
1000S300-68	14	50	1.185	4.0343	17.31	3.463	3.8220	1.178	.9969	16.554	6691	5461.3	16.470"
1000S300-97	12	50	1.612	5.4882	23.31	4.662	3.8017	1.549	.9800	22.843	1032	8662.7	16.244"
											Nominal	16.66"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

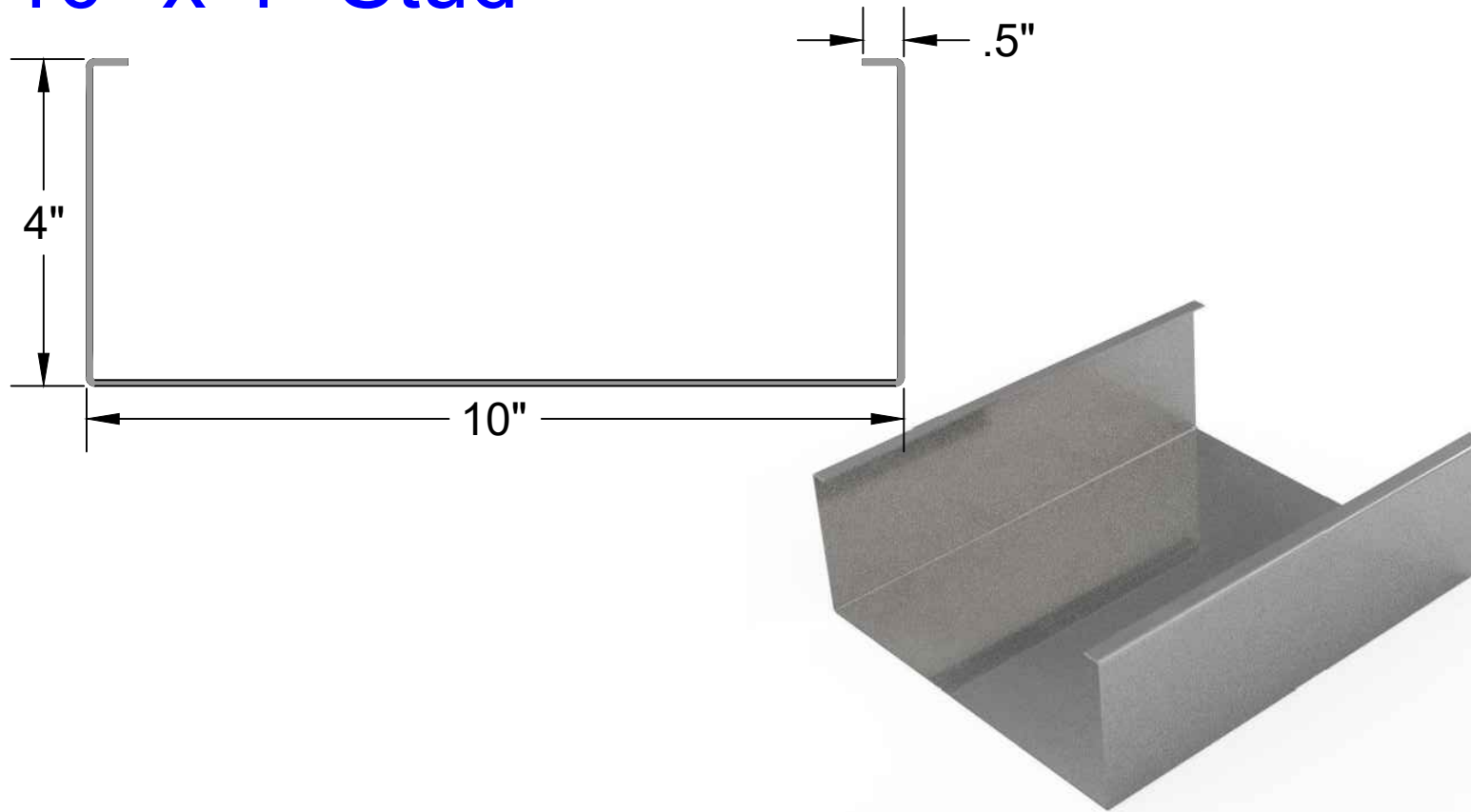
1000S300

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

10" x 4" Stud

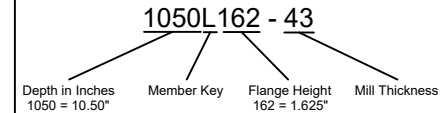


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1000S400
Depth:	10"
Flange:	4"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1000S400-43	18	50	.84151	2.030	13.333	2.6670	3.9805	1.595	1.3766	13.333	NA	NA	18.659"
1000S400-54	16	50	1.0516	3.235	16.596	3.3193	3.9727	1.972	1.3692	16.596	NA	NA	18.579"
1000S400-68	14	50	1.3296	4.524	20.867	4.1734	3.9616	2.454	1.3586	18.388	6672	5590.7	18.470"
1000S400-97	12	50	1.8109	6.162	28.162	5.6325	3.9435	3.258	1.3414	25.877	1084	8936.8	18.244"
Nominal												18.66"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

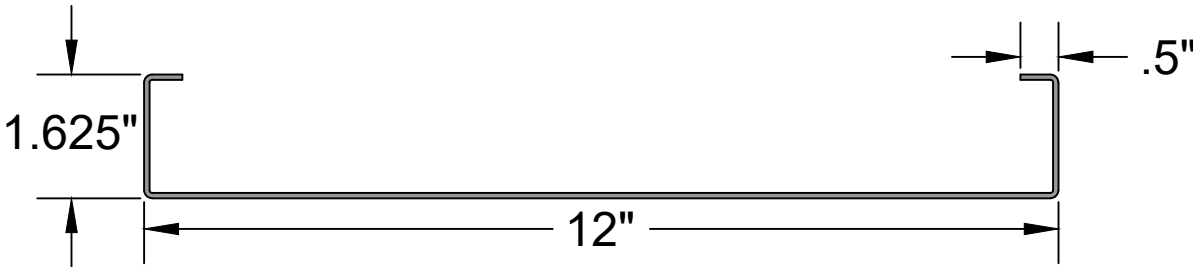
1000S400

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

12" x 1 5/8" Stud

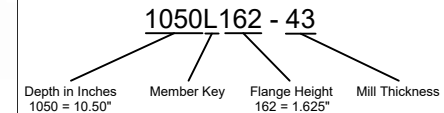


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1200S162
Depth:	12"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1200S162-54	16	50	.90220	3.069	15.836	2.6395	4.1898	.2131	.486	14.410	4824	3938.5	15.82"
1200S162-68	14	50	1.1316	3.850	19.700	3.2833	4.1724	.2574	.477	18.590	6680	5593.8	15.72"
1200S162-97	12	50	1.5386	5.235	26.423	4.4039	4.1441	.3280	.461	26.099	9903	8957.5	15.49"
											Nominal	15.83"	

Mill - Gauge Bend Radius

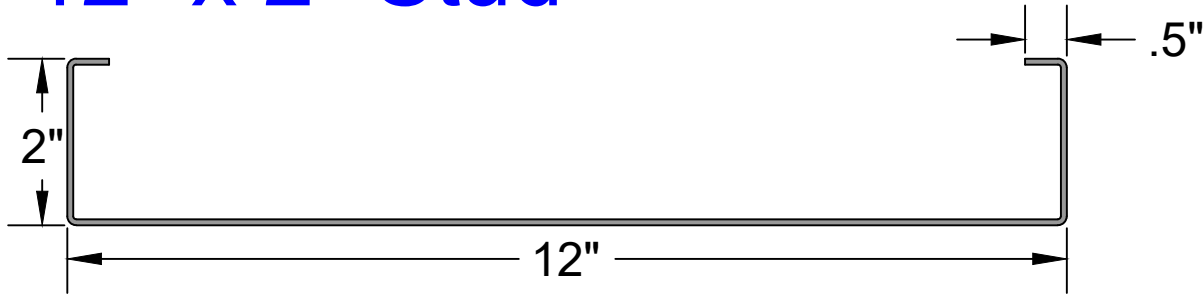
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

1200S162

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

12" x 2" Stud

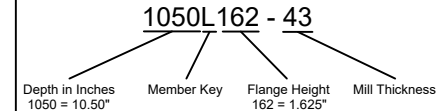


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1200S200
Depth:	12"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1200S200-54	16	50	.94490	3.2153	17.361	2.8935	4.2864	.3593	.6167	16.088	4874	4236	16.579"
1200S200-68	14	50	1.1856	4.0343	21.620	3.6035	4.2704	.4372	.6073	20.601	7061	6002	16.470"
1200S200-97	12	50	1.6129	5.4882	29.052	4.8420	4.2440	.5641	.5914	28.734	1087	9605	16.244"
										Nominal		16.6"	

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

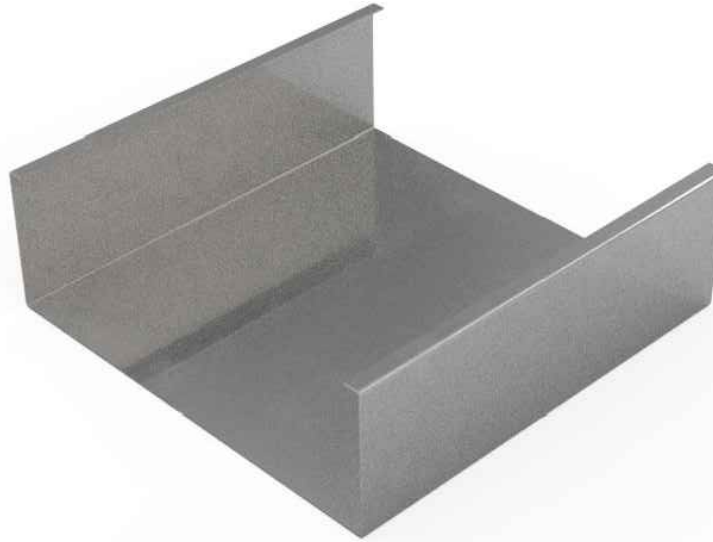
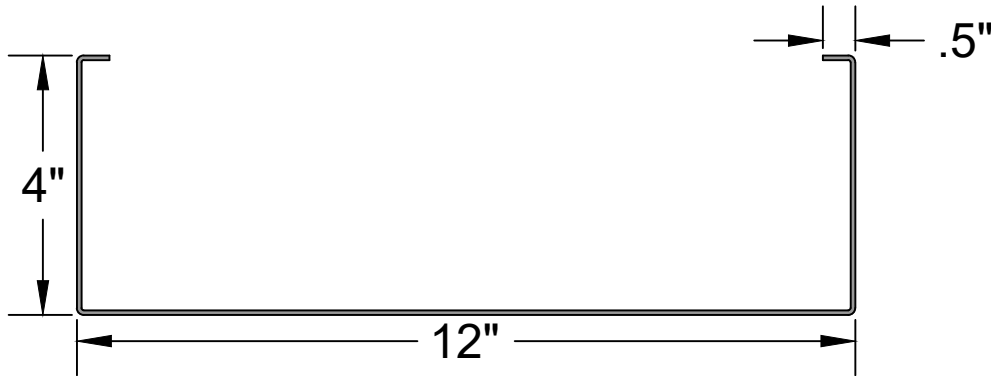
1200S200

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

12" x 4" Stud

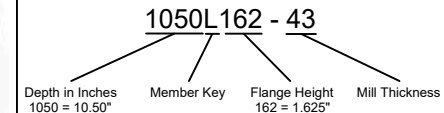


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1200S400
Depth:	12"
Flange:	4"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1200S400-54	16	50	1.1648	3.3590	25.318	4.219	4.6622	2.077	1.3354	25.318	NA	NA	20.58"
1200S400-68	14	50	1.4736	5.0143	31.864	5.310	4.6501	2.585	1.3247	28.607	7969	6776	20.47"
1200S400-97	12	50	2.0089	6.8357	43.074	7.179	4.6306	3.433	1.3074	39.694	1410	1092	20.25"
											Nominal		20.6"

Mill - Gauge | Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

1200S400

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Custom Studs and Track



6195 Hwy 52 East
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Fax: (706) 864-2147

Member specs and limits

Name:	350S162
Depth:	3.5"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

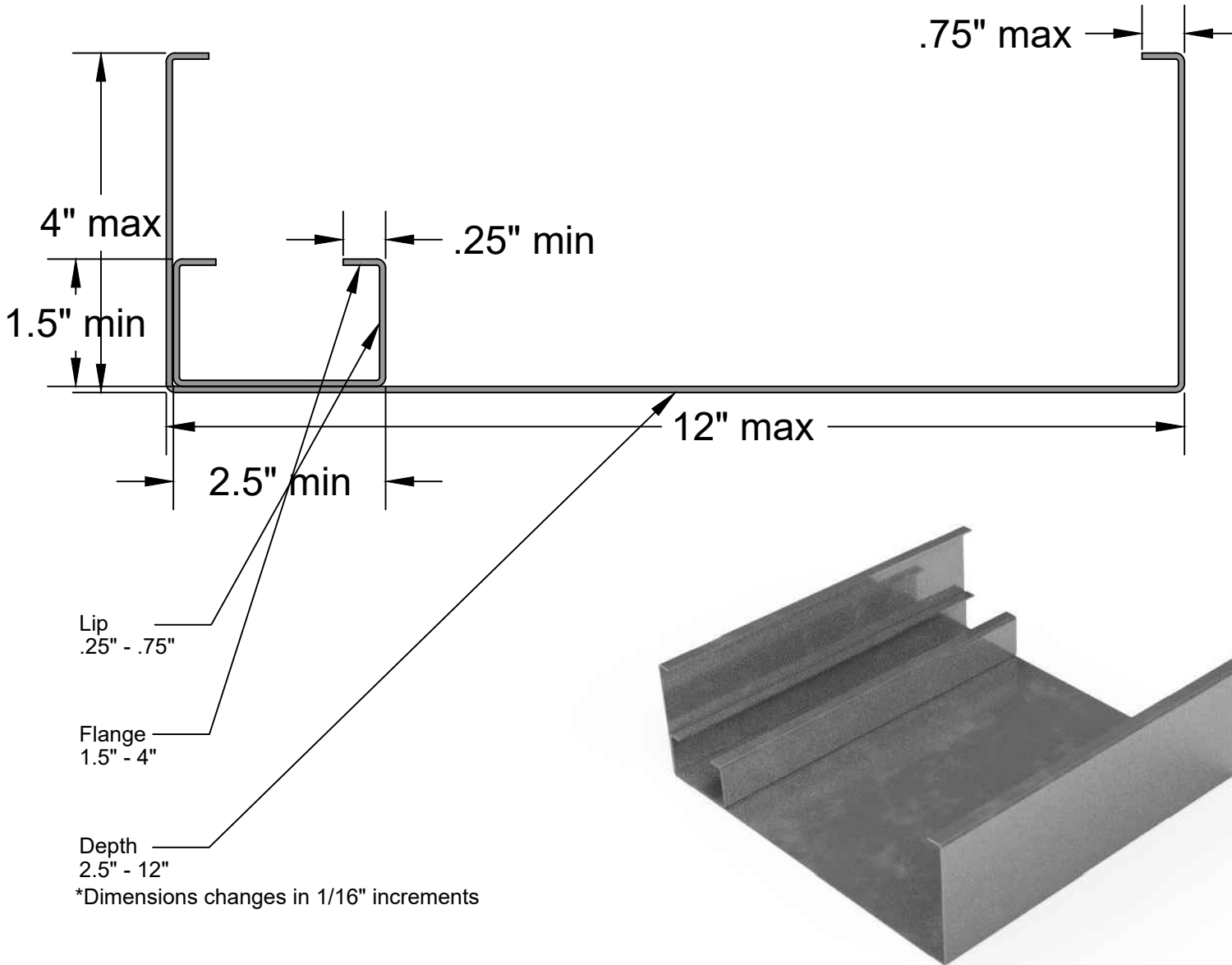
Name Breakdown

1050L162 - 43			
Depth in Inches 1050 = 10.50"	Member Key	Flange Height 162 = 1.625"	Mill Thickness

Member Key

- S = Stud (C Shaped)
- L = Lintel (L Shaped)
- T = Track (U Shaped)
- I = I-Beam (I Shaped)
- A = Angle (2 Legs, 1 Angle)
- H = Hat (Top Hat Shaped)
- B = Box (Rectangle Shaped)
- F = Strap/Flat (Flat Shaped)
- Z = Zee (Z Shaped)

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325



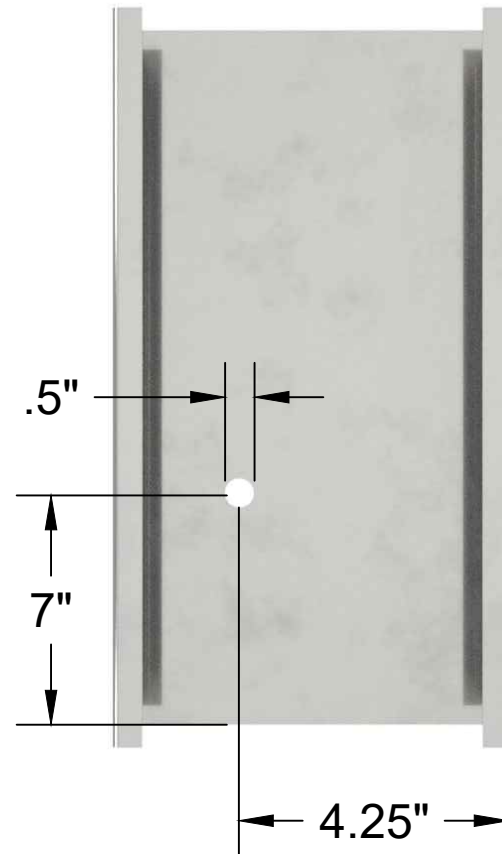
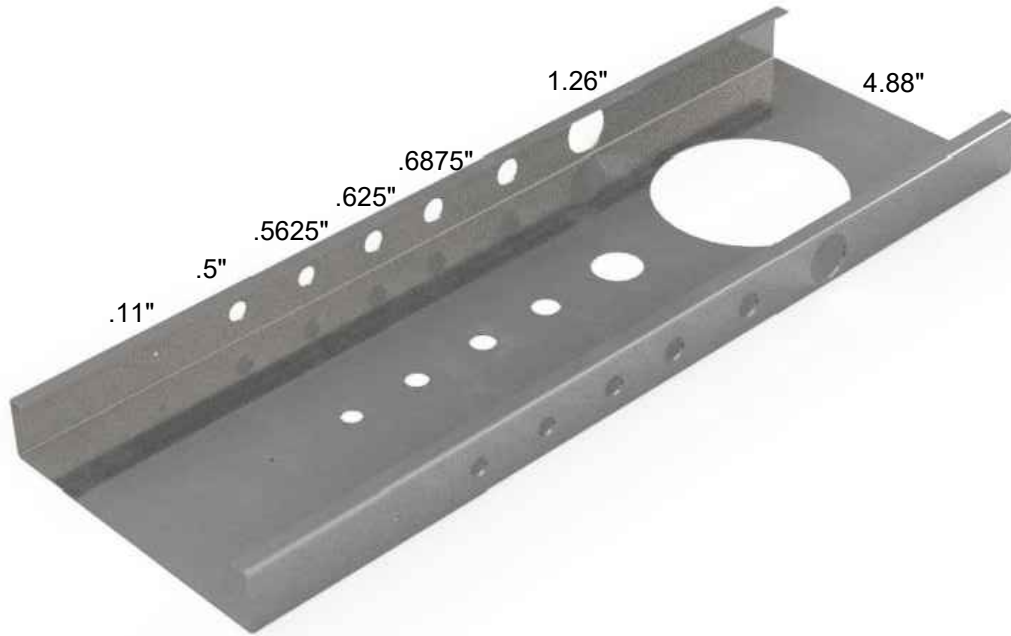
*Dimensions changes in 1/16" increments

* All members shown in 14 gauge to show detail

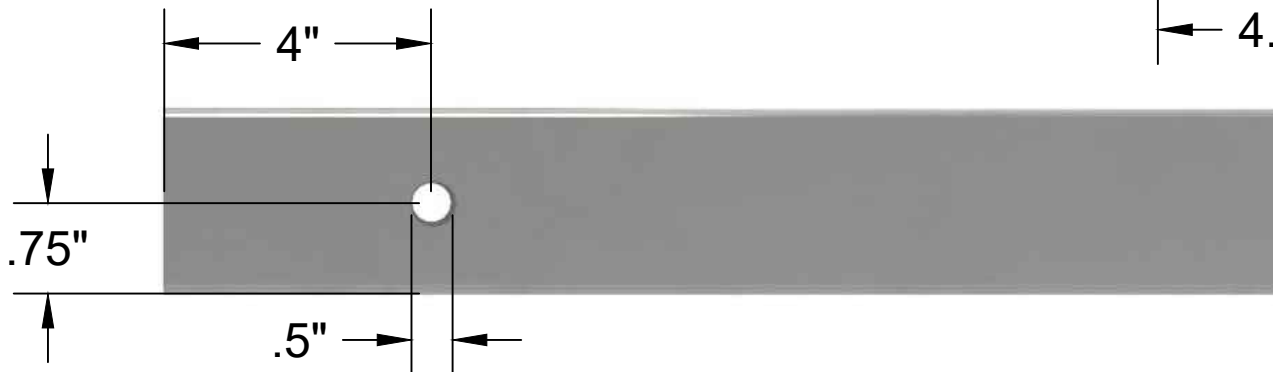
*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

Hole Punching



* All members shown in 14 gauge to show detail

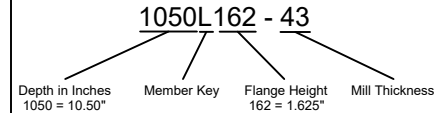


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Fax: (706) 864-2147

Member specs and limits

Name:	350S162
Depth:	3.5"
Flange:	1.625"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



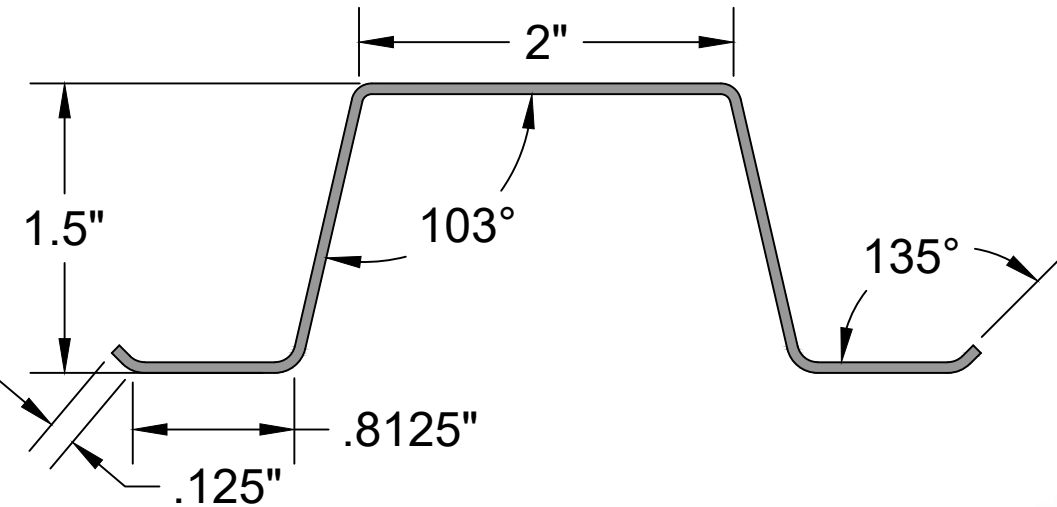
Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

1 1/2" Hat Channel

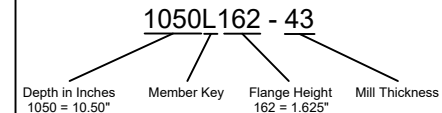


6195 Hwy 52 East
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	200H150
Depth:	2"
Flange:	1.5"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	F _y (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
200H150-18	26	50	.1273	.478	.07697	.07546	.7776	.14977	1.0846	.0176	NA	NA	6.65"
200H150-25	24	50	.1760	.637	.10567	.10385	.7747	.20568	1.0808	.0334	NA	NA	6.59"
200H150-30	22	50	.1990	.765	.11911	.12124	.7735	.23172	1.0789	.0429	NA	NA	6.57"
200H150-33	20	50	.2426	.967	.14420	.14175	.7711	.28050	1.0753	.0676	NA	NA	6.55"
200H150-43	18	50	.3154	1.22	.18500	.18182	.7670	.35970	1.6095	.1286	NA	NA	6.35"
											Nominal	6.75"	

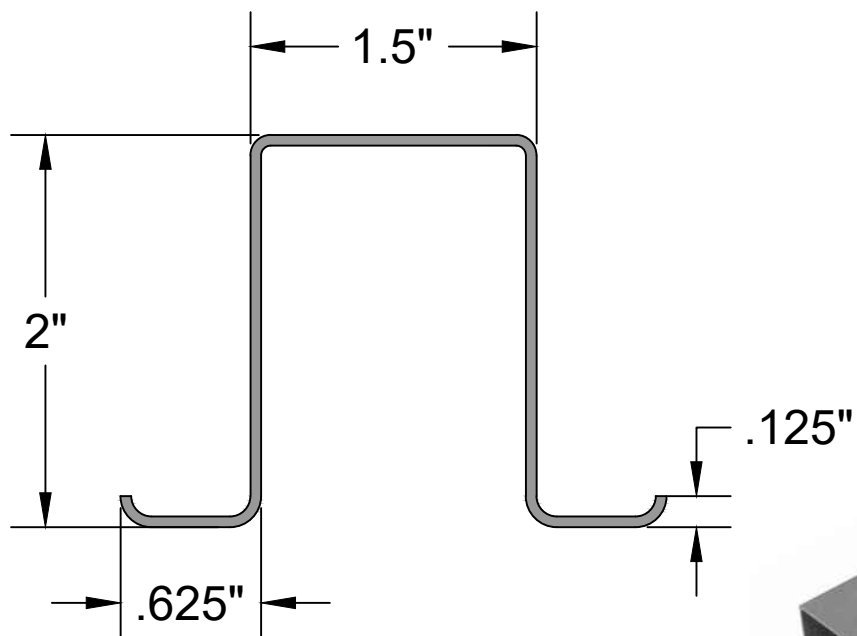
Mill - Gauge	Bend Radius
18 mill = 26 gauge	.0982
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712

200H150

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

2" Hat Channel

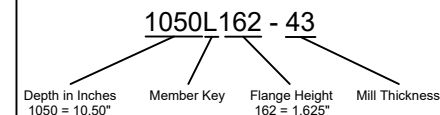


6195 Hwy 52 East
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	150H200
Depth:	1.5"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S = Stud (C Shaped)
- L = Lintel (L Shaped)
- T = Track (U Shaped)
- I = I-Beam (I Shaped)
- A = Angle (2 Legs, 1 Angle)
- H = Hat (Top Hat Shaped)
- B = Box (Rectangle Shaped)
- F = Strap/Flat (Flat Shaped)
- Z = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
150H200-25	24	50	.1130	.552	.04062	.04822	.5994	.10362	.9573	.01011	NA	NA	6.75"
150H200-30	22	50	.1691	.663	.05998	.07120	.5955	.15334	.9522	.02043	NA	NA	6.70"
150H200-33	20	50	.2059	.840	.07239	.08594	.5930	.18535	.9488	.03051	NA	NA	6.65"
150H200-43	18	50	.2664	1.06	.09235	.10964	.5887	.23704	.9431	.05667	NA	NA	6.60"
150H200-54	16	50	.3299	1.26	.11211	.13301	.5829	.28951	.9367	.07509	NA	NA	6.56"
												Nominal	6.75"

Mill - Gauge Bend Radius

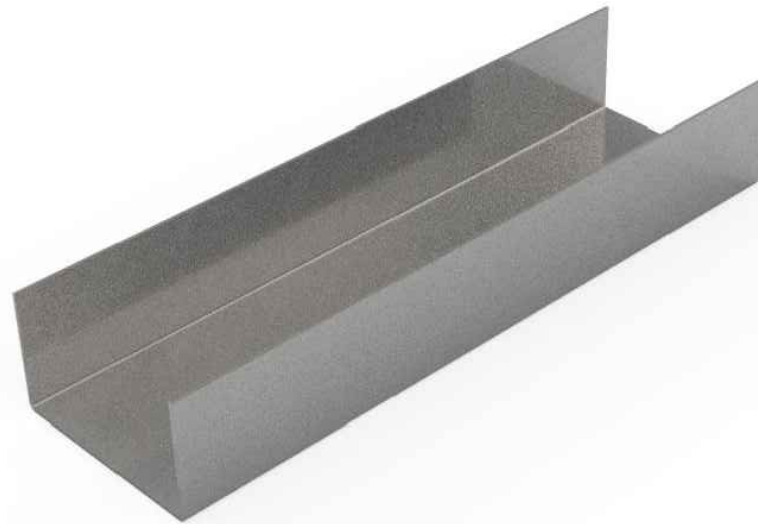
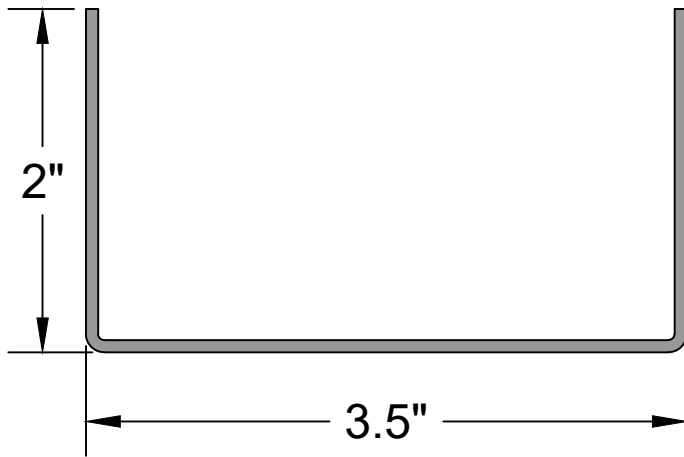
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849

150H200

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

3 1/2" Track

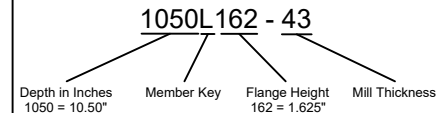


6195 Hwy 52 East
Murrayville GA, 30564
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	350T200
Depth:	3.5"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S = Stud (C Shaped)
- L = Lintel (L Shaped)
- T = Track (U Shaped)
- I = I-Beam (I Shaped)
- A = Angle (2 Legs, 1 Angle)
- H = Hat (Top Hat Shaped)
- B = Box (Rectangle Shaped)
- F = Strap/Flat (Flat Shaped)
- Z = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
350T200-25	24	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45"
350T200-30	22	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.45"
350T200-33	20	50	.2848	.96910	.6309	.3455	1.4884	.1188	.6459	.4578	478.99	NA	7.45"
350T200-43	18	50	.3595	1.2233	.7977	.4351	1.4896	.1491	.6440	.6155	650.62	NA	7.45"
350T200-54	16	50	.4268	1.4523	.9559	.5169	1.4966	.1761	.6423	.9559	828.60	NA	7.45"
350T200-68	14	50	.5389	1.8336	1.225	.6532	1.5077	.2202	.6393	1.067	1158.3	NA	7.45"
350T200-97	12	50	.7402	2.5186	1.717	.8967	1.5232	.2975	.6340	1.632	1829.8	NA	7.45"
											Nominal	7.45"	

*All calculations based on unpunched stud

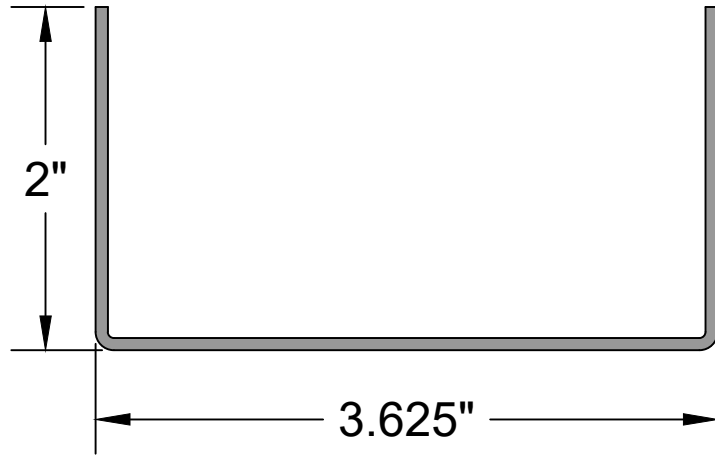
** Full Sectional properties available upon request

350T200

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

3 5/8" Track

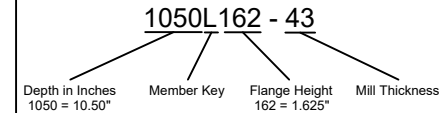


6195 Hwy 52 East
Murrayville GA, 30564
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	362S200
Depth:	3.625"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{oa} (ft-lb)	Flat Width
362S200-25	24	50	.1874	.6540	.4126	.2276	1.4840	.0787	.6484	.1244	NA	NA	7.45"
362S200-30	22	50	.2119	.8775	.4675	.2569	1.4825	.0889	.6479	.3223	NA	NA	7.45"
362S200-33	20	50	.2859	.9852	.6808	.3605	1.5334	.1201	.6440	.4962	.49620	NA	7.45"
362S200-43	18	50	.3655	1.243	.8608	.4540	1.5347	.1507	.6422	.6661	684.09	NA	7.45"
362S200-54	16	50	.4339	1.476	1.031	.5393	1.5415	.1779	.6404	1.031	870.05	NA	7.45"
362S200-68	14	50	.5479	1.864	1.320	.6814	1.5525	.2226	.6374	1.152	1214.0	NA	7.45"
362S200-97	12	50	.7525	2.560	1.849	.9353	1.5678	.3006	.6321	1.758	1913.4	NA	7.45"
											Nominal	7.45"	

*All calculations based on unpunched stud

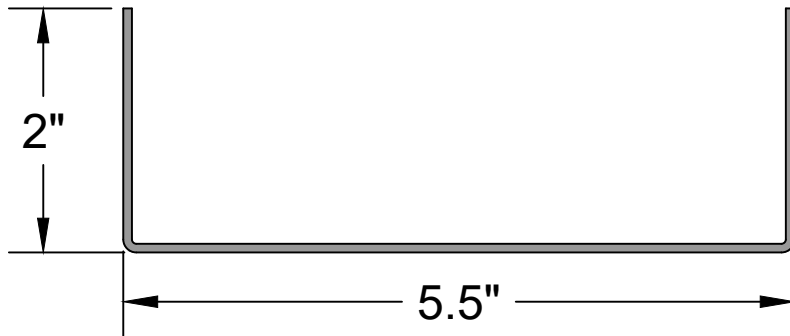
** Full Sectional properties available upon request

362S200

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

5 1/2" Track

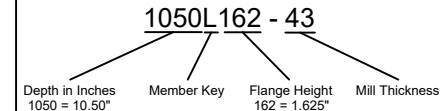


6195 Hwy 52 East
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	550T200
Depth:	5.5"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
550T200-25	24	50	.1763	.7560	.8087	.2940	2.1412	.0674	.6181	.37036	NA	NA	9.5"
550T200-30	22	50	.2649	.9870	1.210	.4401	2.1373	.1007	.6166	.95690	NA	NA	9.5"
550T200-33	20	50	.3608	1.227	1.722	.6093	2.1847	.1353	.6123	1.3509	754.3	NA	9.5"
550T200-43	18	50	.4555	1.549	2.175	.7670	2.1850	.1697	.6104	2.1750	1201.6	NA	9.5"
550T200-54	16	50	.5408	1.840	2.596	.9113	2.1913	.2003	.6086	2.1714	1585.7	NA	9.5"
550T200-68	14	50	.6829	2.323	3.306	1.150	2.2005	.2505	.6056	2.9296	2166.0	NA	9.5"
550T200-97	12	50	.9382	3.192	4.595	1.576	2.2132	.3380	.6003	4.3856	3326.0	NA	9.5"
											Nominal	9.5"	

*All calculations based on unpunched stud

** Full Sectional properties available upon request

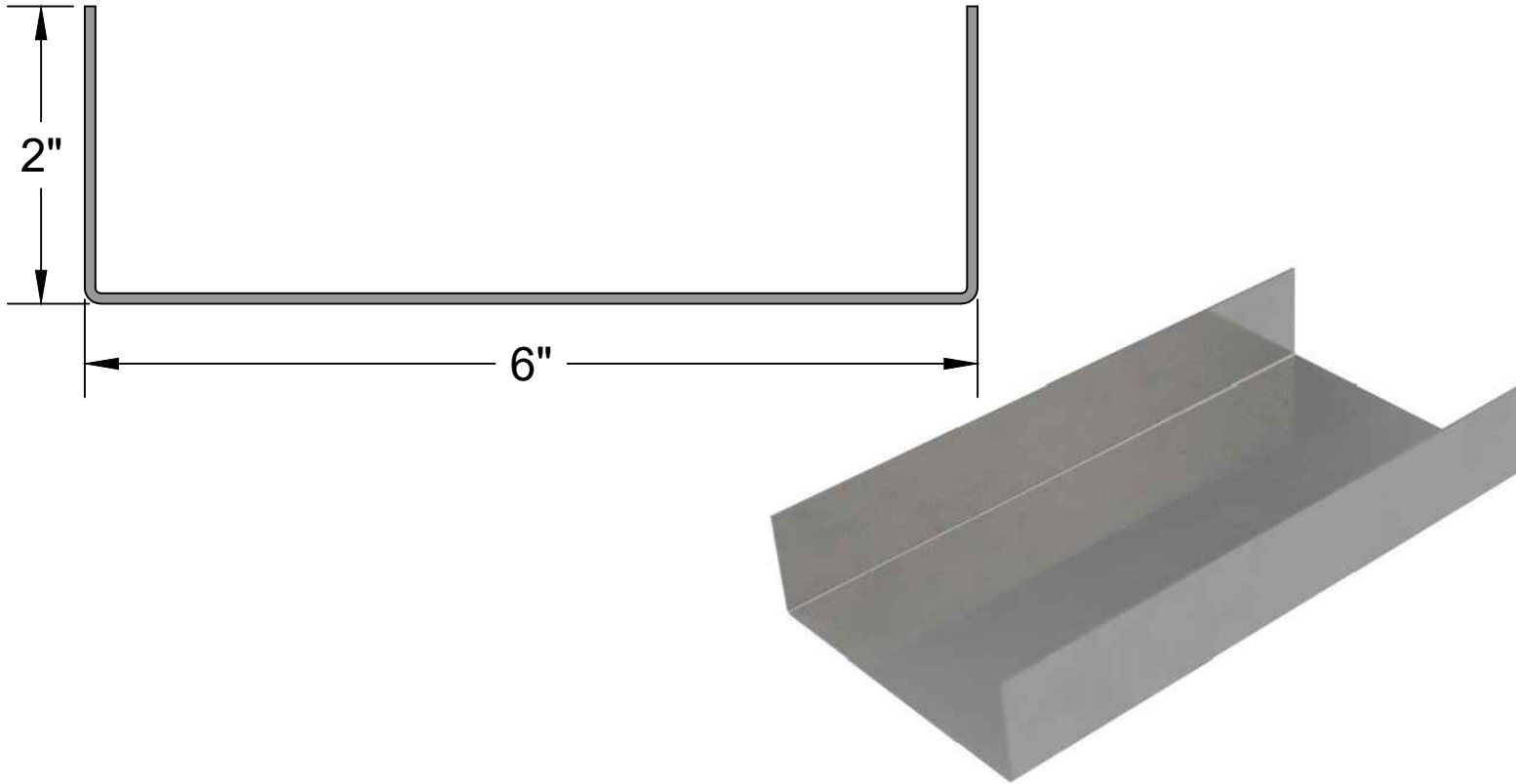
Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

550T200

Steel Members Documentation

6" Track

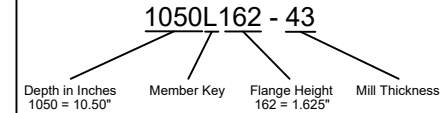


6195 Hwy 52 East
Murrayville GA, 30564
www.BMMetals.com
Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	600T200
Depth:	6"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
600T200-25	24	50	.1857	.7120	.9910	.3303	2.309	.0690	.6093	.4660	NA	NA	10"
600T200-30	22	50	.2791	.9890	1.483	.4946	2.305	.1031	.6078	1.201	NA	NA	10"
600T200-33	20	50	.3798	1.292	2.101	.6832	2.352	.1383	.6035	1.672	821.50	NA	10"
600T200-43	18	50	.4795	1.631	2.655	.8611	2.353	.1736	.6017	2.172	1301.8	NA	10"
600T200-54	16	50	.5693	1.937	3.167	1.021	2.358	.2049	.5999	2.664	1806.0	NA	10"
600T200-68	14	50	.7189	2.446	4.029	1.289	2.367	.2561	.5969	3.582	2457.4	NA	10"
600T200-97	12	50	.9877	3.360	5.592	1.766	2.379	.3456	.5916	5.342	3752.8	NA	10"
											Nominal		10"

*All calculations based on unpunched stud

** Full Sectional properties available upon request

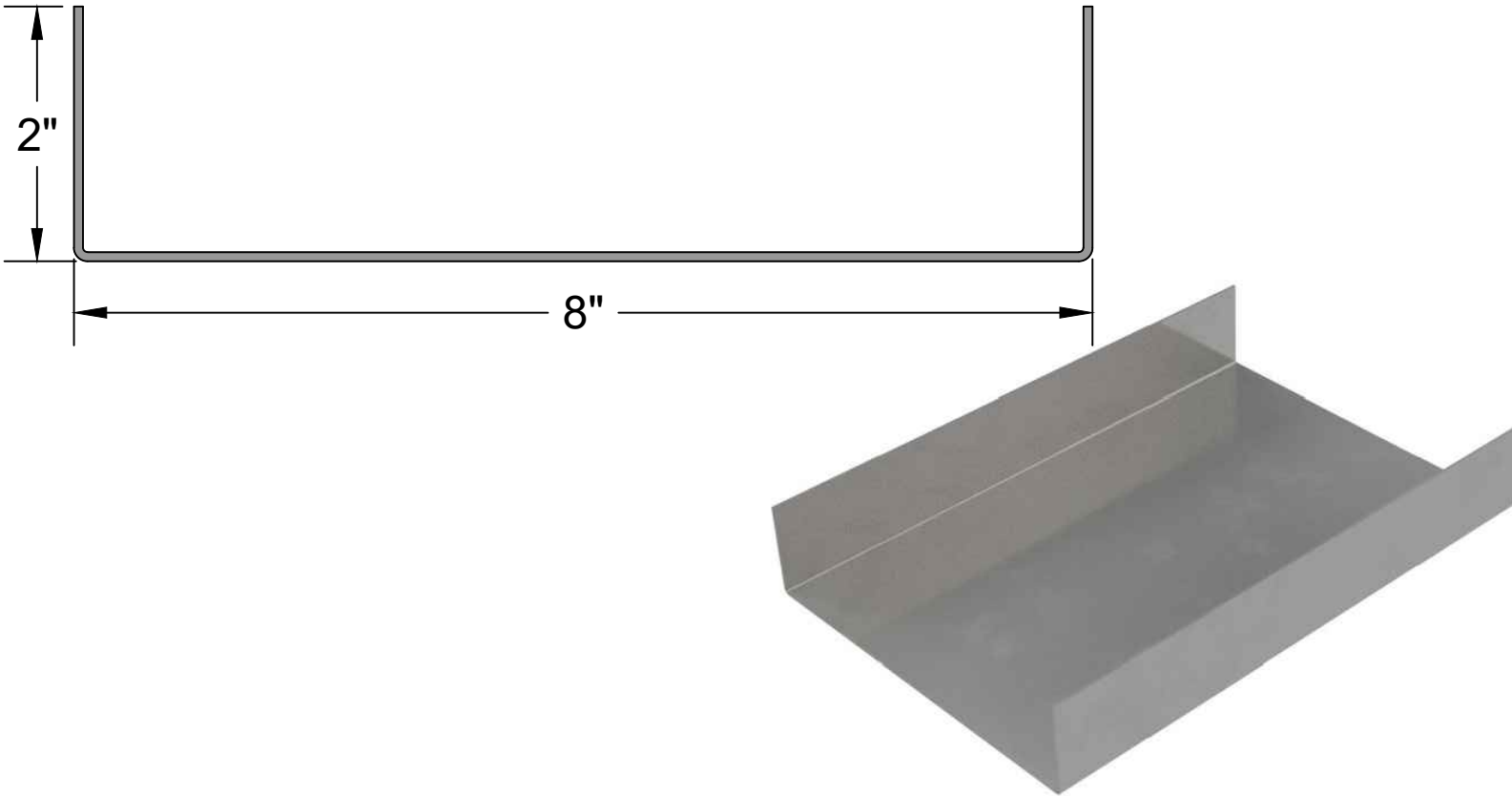
600T200

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

8" Track

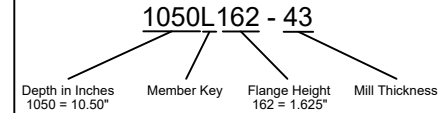


6195 Hwy 52 East
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Fax: (706) 864-2147

Member specs and limits

Name:	800T200
Depth:	8"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
800T200-43	18	50	.5775	1.958	5.202	1.273	3.0065	.1858	.5682	4.073	1609.3	NA	11.1"
800T200-54	16	50	.6833	2.351	6.195	1.511	3.0112	.2193	.5665	5.199	2201.0	NA	11.1"
800T200-68	14	50	.8428	2.936	7.863	1.906	3.0187	.2741	.5636	7.141	3321.1	NA	11.1"
800T200-97	12	50	1.185	4.034	10.87	2.611	3.0280	.3697	.5584	10.44	5585.8	NA	11.1"
											Nominal	11.1"	

Mill - Gauge | Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

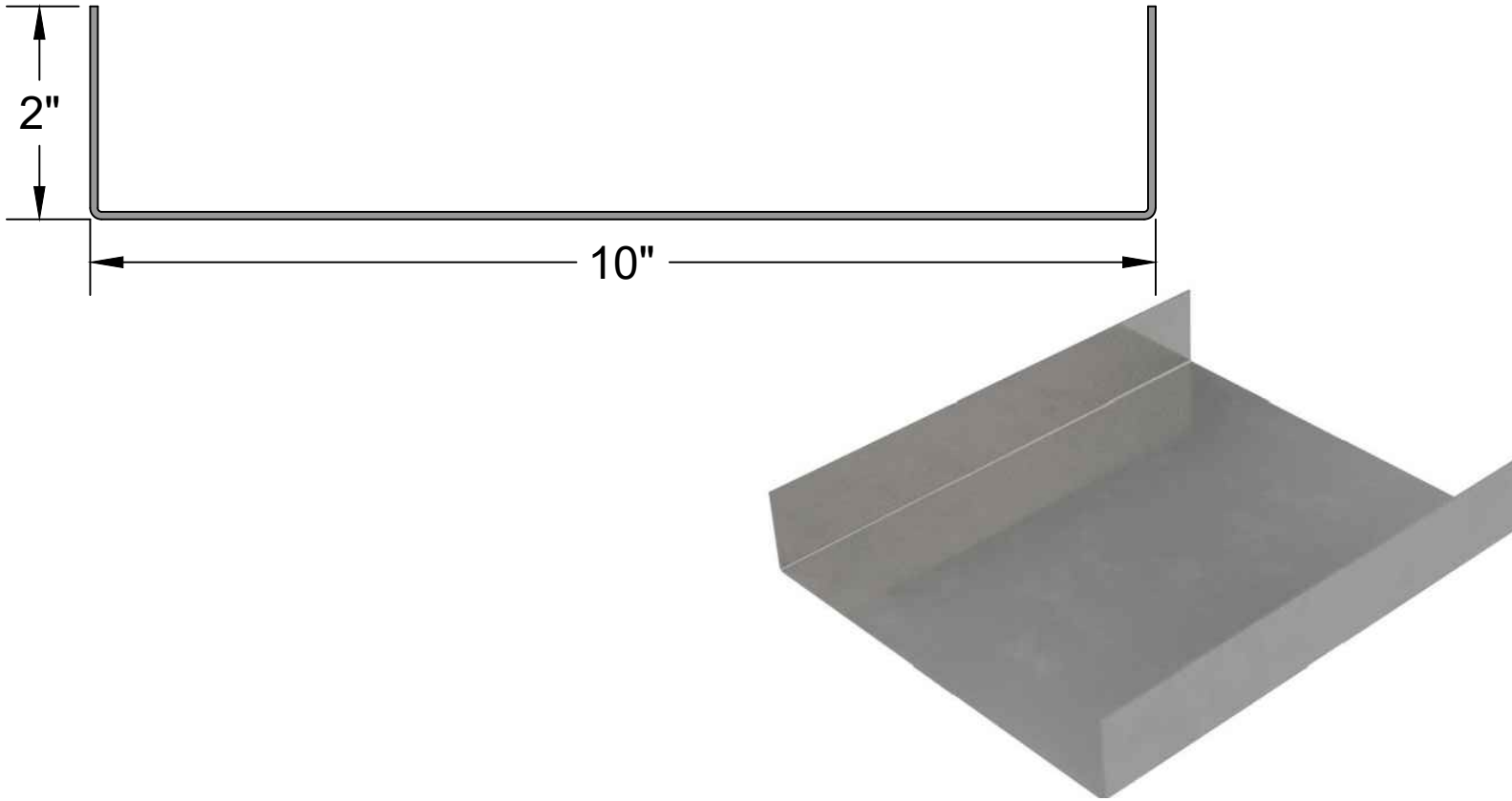
800T200

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

10" Track

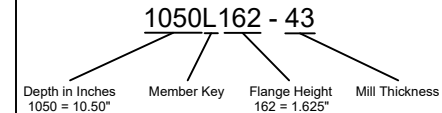


6195 Hwy 52 East
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Office: (706) 864-6068
Fax: (706) 864-2147

Member specs and limits

Name:	1000T200
Depth:	10"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	Flat Width
1000T200-43	18	50	.6715	2.284	8.899	1.75	3.6406	.1827	.5382	6.7323	2042.3	NA	13.9"
1000T200-54	16	50	.7973	2.713	10.59	2.07	3.6440	.2295	.5366	8.6450	2806.2	NA	13.9"
1000T200-68	14	50	1.006	3.426	13.42	2.61	3.6512	.2869	.5338	11.974	4272.5	NA	13.9"
1000T200-97	12	50	1.383	4.708	18.53	3.58	3.6599	.3868	.5287	17.952	7317.0	NA	13.9"
											Nominal	13.9"	

Mill - Gauge | Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

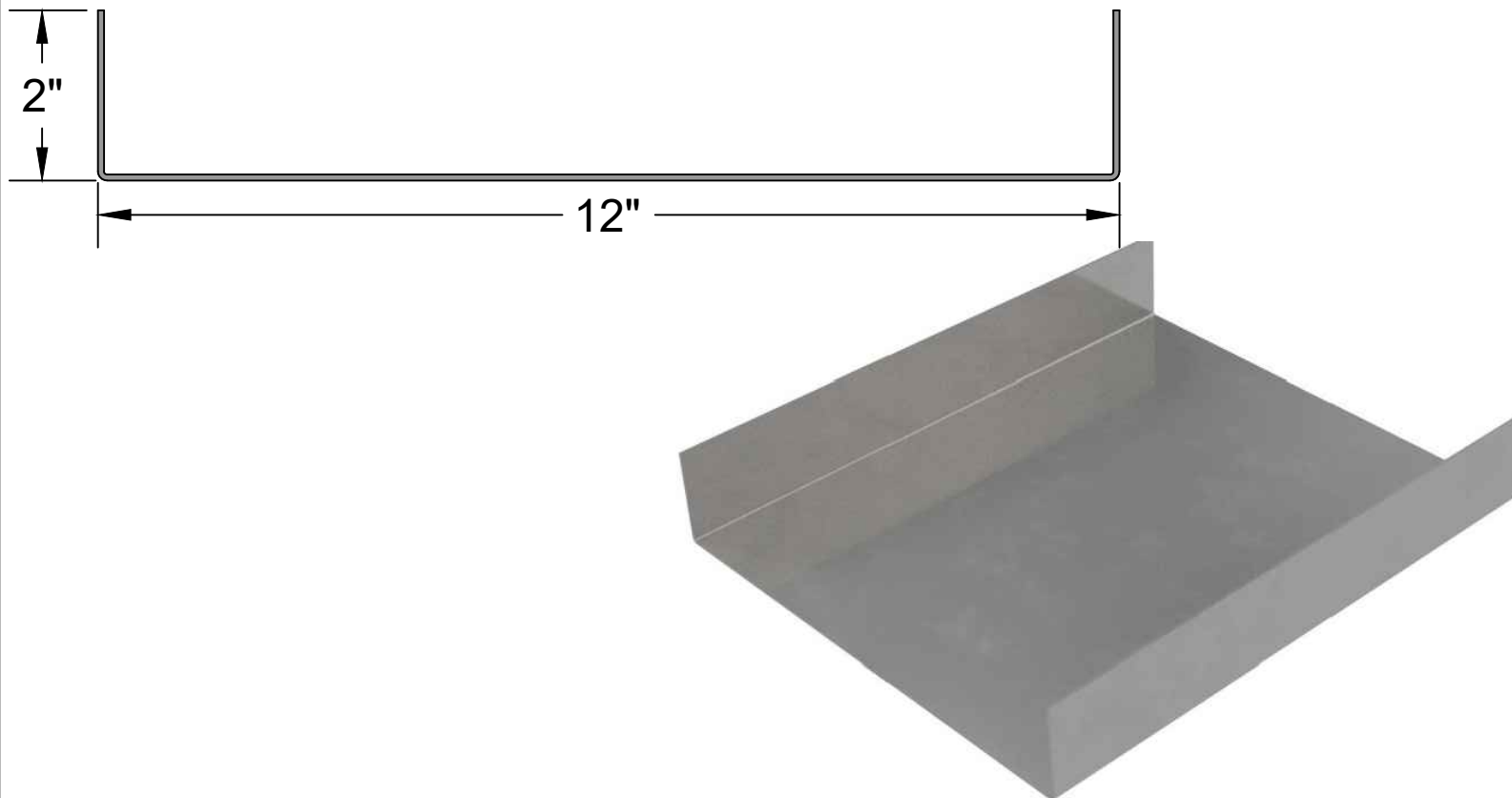
1000T200

*All calculations based on unpunched stud

** Full Sectional properties available upon request

Steel Members Documentation

12" Track

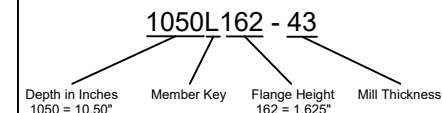


6195 Hwy 52 East
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Fax: (706) 864-2147

Member specs and limits

Name:	1200T200
Depth:	12"
Flange:	2"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Area (in ²)	Weight (lbs/ft)	Gross Properties					Effective Properties			Coil Flat Width
					I _x (in ⁴)	S _x (in ³)	R _x (in)	I _y (in ⁴)	R _y (in)	I _x (in ⁴)	M _d (ft-lb)	M _{da} (ft-lb)	
1200T200-54	16	50	.91130	3.1009	16.580	2.7180	4.265	.2373	.5102	13.093	3410.6	NA	15.83"
1200T200-68	14	50	1.1509	3.9161	20.995	3.4276	4.270	.2965	.5075	18.267	5223.1	NA	15.83"
1200T200-97	12	50	1.5817	5.3820	28.597	4.6960	4.278	.3997	.5027	27.892	9057.5	NA	15.83"
											Nominal	15.83"	

Mill - Gauge Bend Radius

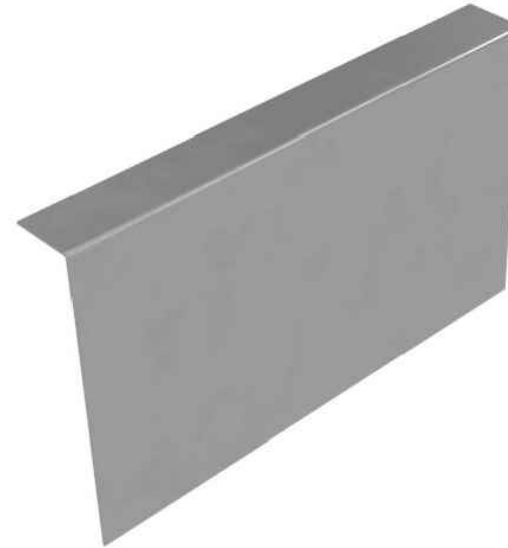
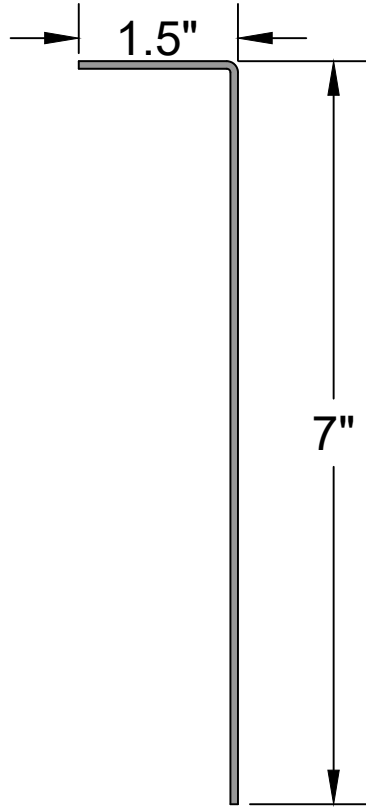
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

1200T200

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

1 1/2" x 7" Lintel



* All members shown in 14 gauge to show detail

Member	Gauge	Fy (ksi)	Weight (lbs/ft)	Coil Flat Width
700A150-25	24	50	.720	9.5"
700A150-30	22	50	.867	9.5"
700A150-33	20	50	1.10	9.5"
700A150-43	18	50	1.39	9.5"
700A150-54	16	50	1.65	9.5"
700A150-68	14	50	2.08	9.5"
700A150-97	12	50	2.86	9.5"
			Nominal	9.5"

*All calculations based on unpunched stud

** Full Sectional properties available upon request

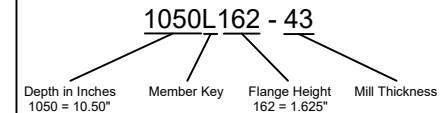


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Member specs and limits

Name:	700A150
Depth:	7"
Flange:	1.5"
Lip:	.5"
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

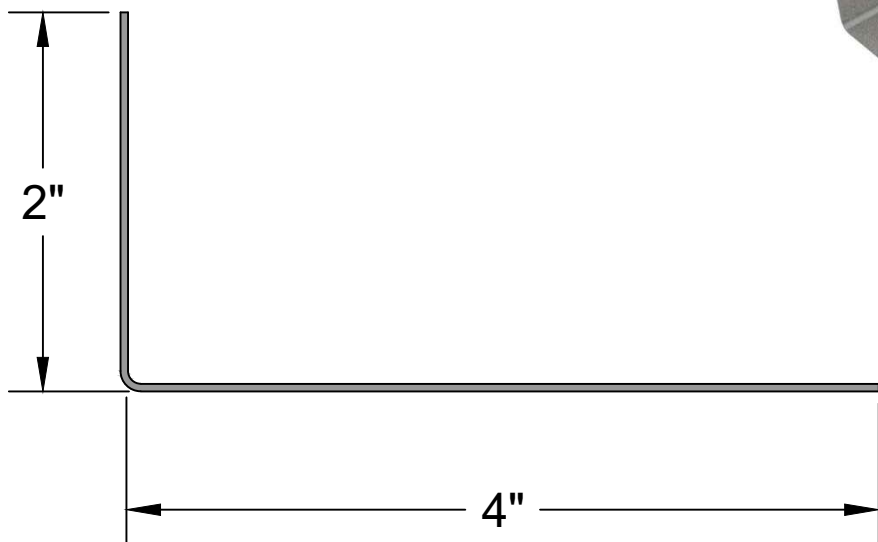
- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

700A150

Steel Members Documentation

2" x 4" Angle

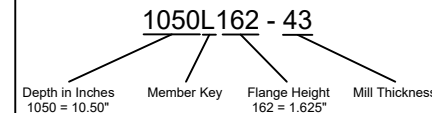


6195 Hwy 52 East
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Member specs and limits

Name:	200A400
Depth:	4"
Flange:	1"
Lip:	0
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Member	Gauge	Fy (ksi)	Weight (lbs/ft)	Coil Flat Width
200A400-25	24	50	.47	6"
200A400-30	22	50	.61	6"
200A400-33	20	50	.78	6"
200A400-43	18	50	.98	6"
200A400-54	16	50	1.16	6"
200A400-68	14	50	1.47	6"
200A400-97	12	50	2.02	6"
				Nominal 6"

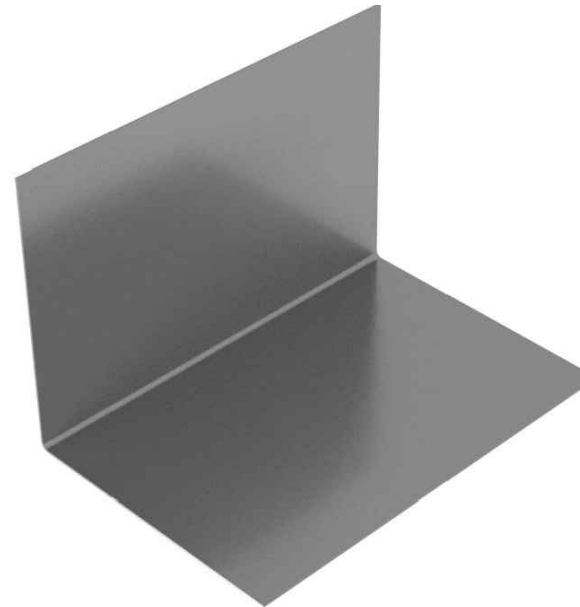
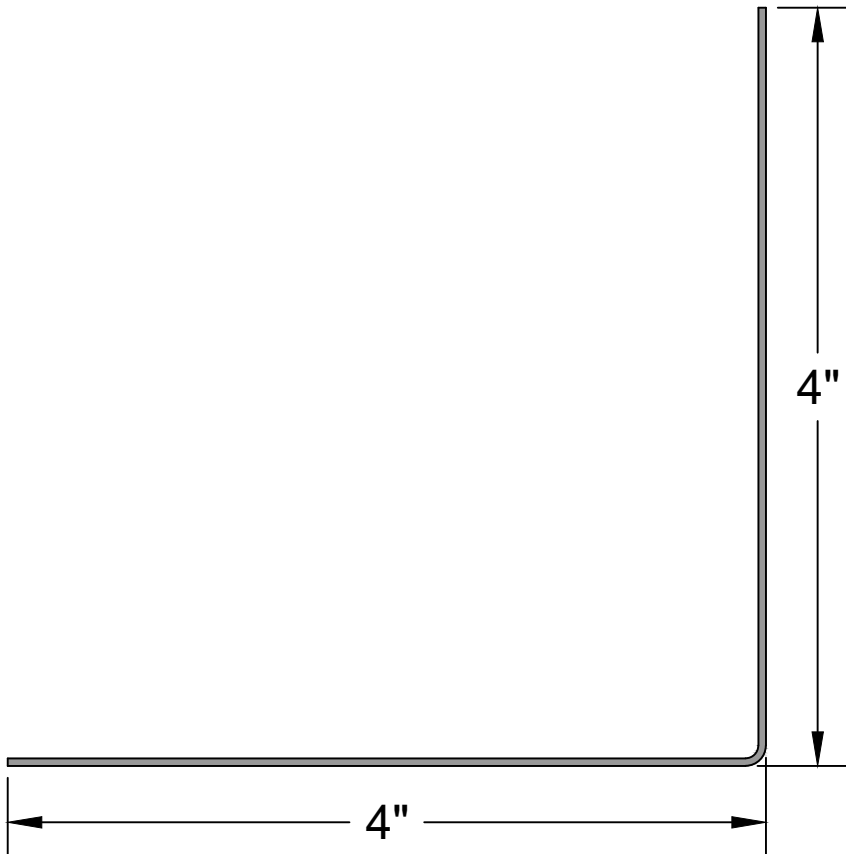
* All members shown in 14 gauge to show detail

200A400

*All calculations based on unpunched stud
** Full Sectional properties available upon request

Steel Members Documentation

4" x 4" Angle



Member	Gauge	Fy (ksi)	Weight (lbs/ft)	Coil Flat Width
400A400-25	24	50	.63	8"
400A400-30	22	50	.82	8"
400A400-33	20	50	1.03	8"
400A400-43	18	50	1.31	8"
400A400-54	16	50	1.55	8"
400A400-68	14	50	1.96	8"
400A400-97	12	50	2.69	8"
			Nominal	8"

* All members shown in 14 gauge to show detail

400A400

*All calculations based on unpunched stud

** Full Sectional properties available upon request

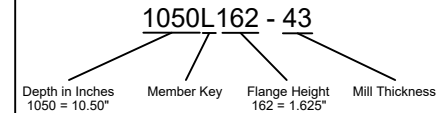


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Member specs and limits

Name:	400A400
Depth:	4"
Flange:	4"
Lip:	0
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



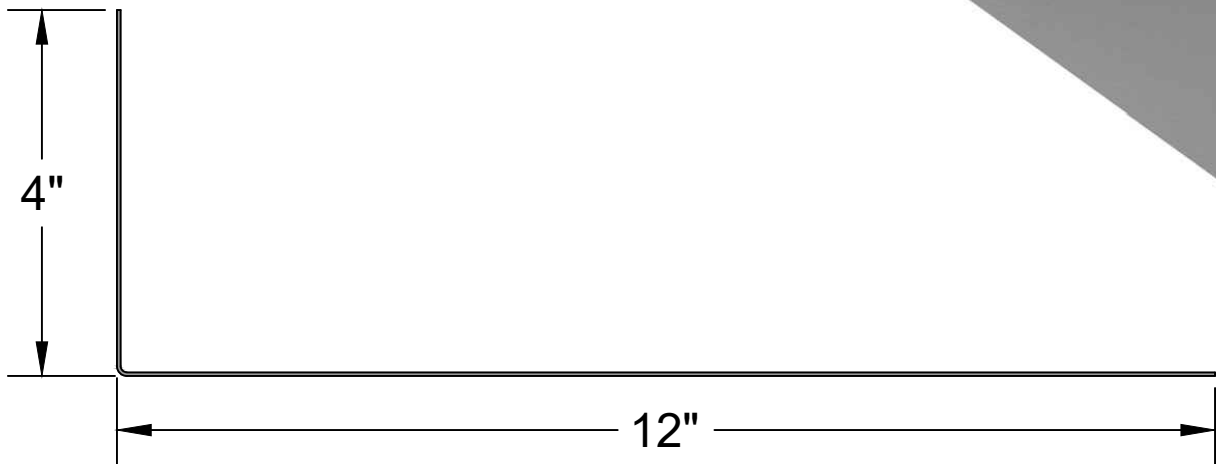
Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Steel Members Documentation

4" x 12" Angle

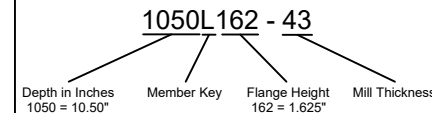


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Member specs and limits

Name:	400A1200
Depth:	12"
Flange:	4"
Lip:	0
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

Name Breakdown



Member Key

- S** = Stud (C Shaped)
- L** = Lintel (L Shaped)
- T** = Track (U Shaped)
- I** = I-Beam (I Shaped)
- A** = Angle (2 Legs, 1 Angle)
- H** = Hat (Top Hat Shaped)
- B** = Box (Rectangle Shaped)
- F** = Strap/Flat (Flat Shaped)
- Z** = Zee (Z Shaped)

Mill - Gauge Bend Radius

25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325

Member	Gauge	Fy (ksi)	Weight (lbs/ft)	Coil Flat Width
400A1200-25	24	50	1.25	16"
400A1200-30	22	50	1.64	16"
400A1200-33	20	50	2.07	16"
400A1200-43	18	50	2.61	16"
400A1200-54	16	50	3.11	16"
400A1200-68	14	50	3.92	16"
400A1200-97	12	50	5.38	16"
Nominal				16"

* All members shown in 14 gauge to show detail

*All calculations based on unpunched stud
** Full Sectional properties available upon request

400A1200

Steel Members Documentation

A x B Custom Angle

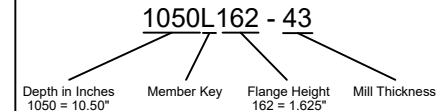


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Member specs and limits

Name:	???A???
Depth:	A
Flange:	B
Lip:	0
Lengths:	6' - 60'
Gauges:	24,22,20,18,16,14,12

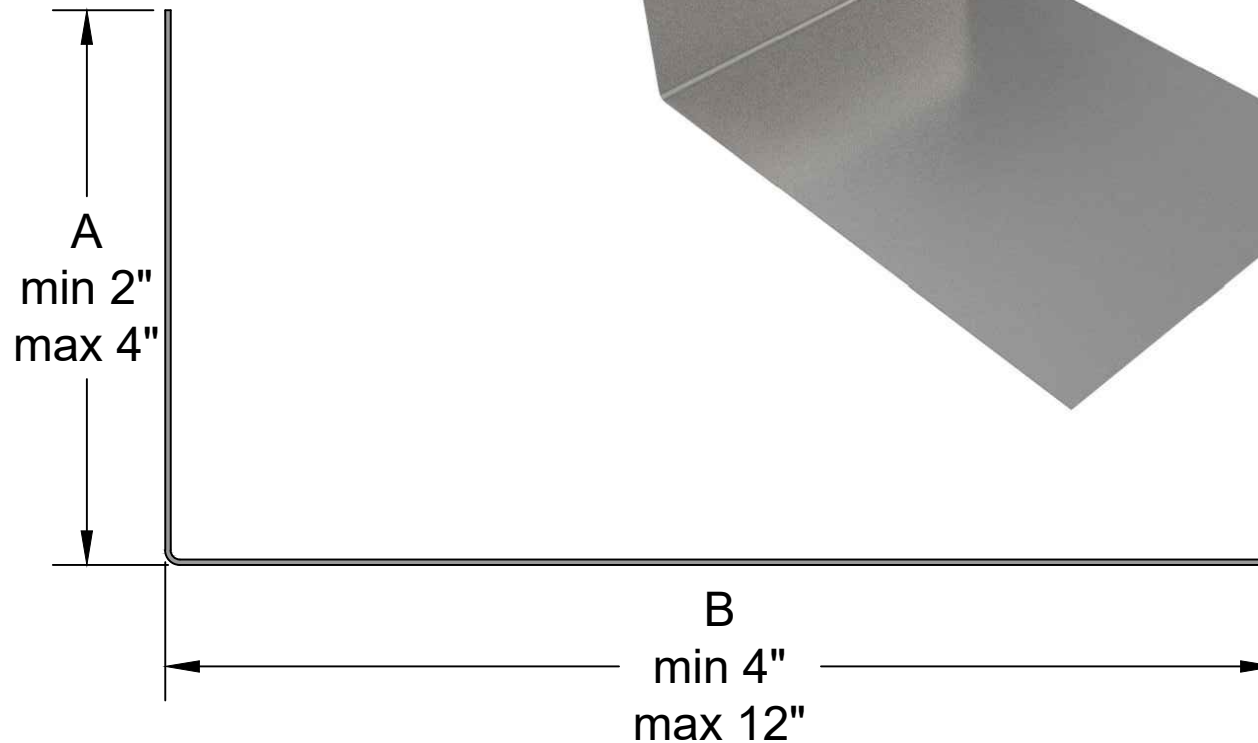
Name Breakdown



Member Key

- S = Stud (C Shaped)
- L = Lintel (L Shaped)
- T = Track (U Shaped)
- I = I-Beam (I Shaped)
- A = Angle (2 Legs, 1 Angle)
- H = Hat (Top Hat Shaped)
- B = Box (Rectangle Shaped)
- F = Strap/Flat (Flat Shaped)
- Z = Zee (Z Shaped)

Mill - Gauge	Bend Radius
25 mill = 24 gauge	.0843
30 mill = 22 gauge	.0796
33 mill = 20 gauge	.0764
43 mill = 18 gauge	.0712
54 mill = 16 gauge	.0849
68 mill = 14 gauge	.1069
97 mill = 12 gauge	.1325



* All members shown in 14 gauge to show detail
** Full Sectional properties available upon request

???A???