

FLAT STANDARD LOADING

SECTION PROPERTIES (Per Foot of Width)

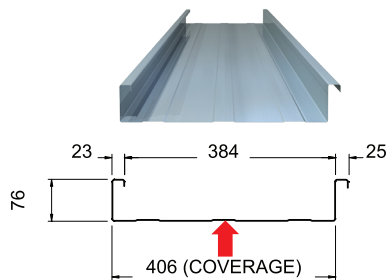
IMPERIAL

THICKNESS		Yield Strength (ksi)	Coated Steel Thickness (AZ50) (in)	Coated Mass (psf)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
Gauge	Base (in)				Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
26	0.018	37	0.020	1.12	0.16	0.55	0.365	2.3	1.6	25.3	4.3
24	0.024	37	0.026	1.49	0.21	0.72	0.481	5.5	3.9	47.4	8.1
22	0.030	37	0.032	1.87	0.26	0.90	0.598	10.3	7.2	76.7	13.0
20	0.036	37	0.038	2.23	0.31	1.07	0.712	16.8	11.7	113.4	19.3
18	0.048	37	0.050	2.97	0.41	1.41	0.932	34.5	24.2	207.8	35.3

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
6.00	S	33	53	73	95	139	45	72	102	124	169	52	83	114	145	197
	D	145	191	238	283	371	350	461	574	682	893	274	361	450	535	700
6.50	S	28	45	62	81	118	39	62	87	106	144	44	71	97	124	168
	D	114	151	187	223	292	275	363	451	537	703	216	284	354	421	551
7.00	S	24	39	54	70	102	33	53	75	91	124	38	61	84	107	145
	D	92	121	150	178	234	221	290	361	430	563	173	228	283	337	441
7.50	S	21	34	47	61	89	29	46	65	80	108	33	53	73	93	126
	D	74	98	122	145	190	179	236	294	349	457	141	185	230	274	359
8.00	S	19	30	41	53	78	25	41	57	70	95	29	47	64	82	111
	D	61	81	100	119	156	148	195	242	288	377	116	152	190	226	295
8.50	S	17	26	36	47	69	23	36	51	62	84	26	41	57	72	98
	D	51	67	84	100	130	123	162	202	240	314	97	127	158	188	246
9.00	S	15	24	32	42	62	20	32	45	55	75	23	37	51	65	88
	D	43	57	71	84	110	104	137	170	202	265	81	107	133	158	207
9.50	S	13	21	29	38	55	18	29	41	50	67	21	33	46	58	79
	D	37	48	60	71	93	88	116	144	172	225	69	91	113	135	176
10.00	S	12	19	26	34	50	16	26	37	45	61	19	30	41	52	71
	D	31	41	51	61	80	76	100	124	147	193	59	78	97	116	151
10.50	S	11	17	24	31	45	15	24	33	41	55	17	27	37	47	64
	D	27	36	44	53	69	65	86	107	127	167	51	67	84	100	131
11.00	S	10	16	22	28	41	13	22	30	37	50	15	25	34	43	59
	D	24	31	39	46	60	57	75	93	111	145	45	59	73	87	114
11.50	S	9	14	20	26	38	12	20	28	34	46	14	23	31	40	54
	D	21	27	34	40	53	50	65	81	97	127	39	51	64	76	99
12.00	S	8	13	18	24	35	11	18	25	31	42	13	21	29	36	49
	D	18	24	30	35	46	44	58	72	85	112	34	45	56	67	88

1. Based on ASTM A792 Structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations.
5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Reverse Loading table for strength values.



FLAT STANDARD LOADING

SECTION PROPERTIES (Per Metre of Width)

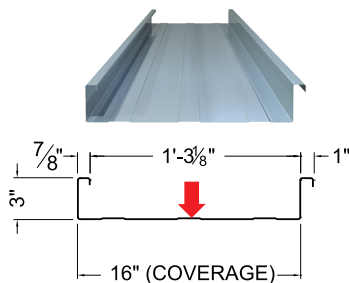
METRIC

THICKNESS		Yield Strength (MPa)	Coated Steel Thickness (AZM150) (mm)	Coated Mass (kg/m ²)	Section Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
					Midspan (10 ³ mm ³)	Support (10 ³ mm ³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
26	0.457	255	0.498	2.54	8.69	29.46	499	0.033	0.023	0.369	0.063
24	0.610	255	0.651	3.37	11.40	38.84	657	0.081	0.056	0.692	0.118
22	0.762	255	0.803	4.22	14.19	48.37	817	0.151	0.106	1.120	0.190
20	0.914	255	0.955	5.06	16.85	57.59	972	0.245	0.171	1.655	0.281
18	1.219	255	1.260	6.71	22.07	75.53	1273	0.504	0.353	3.033	0.516

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22
1.80	S	1.6	2.6	3.6	4.7	6.9	2.2	3.6	5.0	6.2	8.3	2.6	4.1	5.6	7.2	9.8
	D	7.3	9.6	12.0	14.2	18.6	17.6	23.2	28.8	34.3	44.9	13.8	18.2	22.6	26.9	35.2
1.95	S	1.4	2.2	3.1	4.0	5.9	1.9	3.1	4.3	5.2	7.1	2.2	3.5	4.8	6.1	8.3
	D	5.7	7.6	9.4	11.2	14.7	13.8	18.2	22.7	27.0	35.3	10.8	14.3	17.8	21.1	27.7
2.10	S	1.2	1.9	2.7	3.5	5.0	1.6	2.6	3.7	4.5	6.1	1.9	3.0	4.1	5.3	7.2
	D	4.6	6.1	7.5	9.0	11.7	11.1	14.6	18.1	21.6	28.3	8.7	11.4	14.2	16.9	22.2
2.25	S	1.0	1.7	2.3	3.0	4.4	1.4	2.3	3.2	3.9	5.3	1.6	2.6	3.6	4.6	6.2
	D	3.7	4.9	6.1	7.3	9.5	9.0	11.9	14.8	17.6	23.0	7.1	9.3	11.6	13.8	18.0
2.40	S	0.9	1.5	2.0	2.6	3.9	1.3	2.0	2.8	3.5	4.7	1.4	2.3	3.2	4.0	5.5
	D	3.1	4.1	5.0	6.0	7.9	7.4	9.8	12.2	14.5	18.9	5.8	7.7	9.5	11.3	14.8
2.55	S	0.8	1.3	1.8	2.3	3.4	1.1	1.8	2.5	3.1	4.2	1.3	2.0	2.8	3.6	4.9
	D	2.6	3.4	4.2	5.0	6.6	6.2	8.1	10.1	12.1	15.8	4.8	6.4	7.9	9.5	12.4
2.70	S	0.7	1.2	1.6	2.1	3.1	1.0	1.6	2.2	2.7	3.7	1.1	1.8	2.5	3.2	4.3
	D	2.2	2.8	3.5	4.2	5.5	5.2	6.9	8.5	10.2	13.3	4.1	5.4	6.7	8.0	10.4
2.85	S	0.7	1.0	1.4	1.9	2.7	0.9	1.4	2.0	2.5	3.3	1.0	1.6	2.3	2.9	3.9
	D	1.8	2.4	3.0	3.6	4.7	4.4	5.8	7.3	8.6	11.3	3.5	4.6	5.7	6.8	8.9
3.00	S	0.6	0.9	1.3	1.7	2.5	0.8	1.3	1.8	2.2	3.0	0.9	1.5	2.0	2.6	3.5
	D	1.6	2.1	2.6	3.1	4.0	3.8	5.0	6.2	7.4	9.7	3.0	3.9	4.9	5.8	7.6
3.15	S	0.5	0.9	1.2	1.5	2.2	0.7	1.2	1.6	2.0	2.7	0.8	1.3	1.8	2.3	3.2
	D	1.4	1.8	2.2	2.7	3.5	3.3	4.3	5.4	6.4	8.4	2.6	3.4	4.2	5.0	6.6
3.30	S	0.5	0.8	1.1	1.4	2.0	0.7	1.1	1.5	1.8	2.5	0.8	1.2	1.7	2.1	2.9
	D	1.2	1.6	1.9	2.3	3.0	2.9	3.8	4.7	5.6	7.3	2.2	2.9	3.7	4.4	5.7
3.45	S	0.4	0.7	1.0	1.3	1.9	0.6	1.0	1.4	1.7	2.3	0.7	1.1	1.5	2.0	2.7
	D	1.0	1.4	1.7	2.0	2.6	2.5	3.3	4.1	4.9	6.4	2.0	2.6	3.2	3.8	5.0
3.60	S	0.4	0.7	0.9	1.2	1.7	0.6	0.9	1.3	1.5	2.1	0.6	1.0	1.4	1.8	2.4
	D	0.9	1.2	1.5	1.8	2.3	2.2	2.9	3.6	4.3	5.6	1.7	2.3	2.8	3.4	4.4

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FLAT REVERSE LOADING

SECTION PROPERTIES (Per Foot of Width)

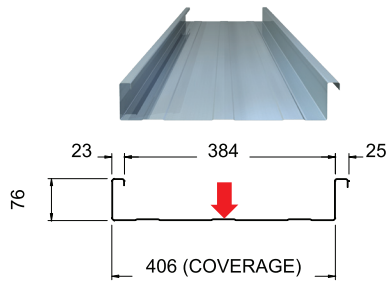
IMPERIAL

THICKNESS		Yield Strength (ksi)	Coated Steel Thickness (AZ50) (in)	Coated Mass (psf)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
Gauge	Base (in)				Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
26	0.018	37	0.020	1.12	0.16	0.55	0.365	2.3	1.6	25.3	4.3
24	0.024	37	0.026	1.49	0.21	0.72	0.481	5.5	3.9	47.4	8.1
22	0.030	37	0.032	1.87	0.26	0.90	0.598	10.3	7.2	76.7	13.0
20	0.036	37	0.038	2.23	0.31	1.07	0.712	16.8	11.7	113.4	19.3
18	0.048	37	0.050	2.97	0.41	1.41	0.932	34.5	24.2	207.8	35.3

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
6.00	S	45	72	102	124	169	33	53	73	95	139	39	62	85	111	162
	D	145	191	238	283	371	350	461	574	682	893	274	361	450	535	700
6.50	S	39	62	87	106	144	28	45	62	81	118	33	53	73	95	138
	D	114	151	187	223	292	275	363	451	537	703	216	284	354	421	551
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	D	92	121	150	178	234	221	290	361	430	563	173	228	283	337	441
7.50	S	29	46	65	80	108	21	34	47	61	89	25	40	55	71	104
	D	74	98	122	145	190	179	236	294	349	457	141	185	230	274	359
8.00	S	25	41	57	70	95	19	30	41	53	78	22	35	48	62	91
	D	61	81	100	119	156	148	195	242	288	377	116	152	190	226	295
8.50	S	23	36	51	62	84	17	26	36	47	69	19	31	43	55	81
	D	51	67	84	100	130	123	162	202	240	314	97	127	158	188	246
9.00	S	20	32	45	55	75	15	24	32	42	62	17	28	38	49	72
	D	43	57	71	84	110	104	137	170	202	265	81	107	133	158	207
9.50	S	18	29	41	50	67	13	21	29	38	55	15	25	34	44	65
	D	37	48	60	71	93	88	116	144	172	225	69	91	113	135	176
10.00	S	16	26	37	45	61	12	19	26	34	50	14	22	31	40	58
	D	31	41	51	61	80	76	100	124	147	193	59	78	97	116	151
10.50	S	15	24	33	41	55	11	17	24	31	45	13	20	28	36	53
	D	27	36	44	53	69	65	86	107	127	167	51	67	84	100	131
11.00	S	13	22	30	37	50	10	16	22	28	41	12	18	25	33	48
	D	24	31	39	46	60	57	75	93	111	145	45	59	73	87	114
11.50	S	12	20	28	34	46	9	14	20	26	38	11	17	23	30	44
	D	21	27	34	40	53	50	65	81	97	127	39	51	64	76	99
12.00	S	11	18	25	31	42	8	13	18	24	35	10	16	21	28	41
	D	18	24	30	35	46	44	58	72	85	112	34	45	56	67	88

1. Based on ASTM A792 Structural steel.
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6. For load direction opposite to that shown, use specified live load and the Standard Loading table for strength values.



FLAT REVERSE LOADING

SECTION PROPERTIES (Per Metre of Width)

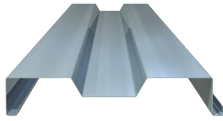
METRIC

THICKNESS		Yield Strength (MPa)	Coated Steel Thickness (AZM150) (mm)	Coated Mass (kg/m²)	Section Modulus		Deflection Moment of Inertia (10⁶ mm⁴)	Specified Web Crippling Data			
					Midspan (10³ mm³)	Support (10³ mm³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
Gauge	Base (mm)										
26	0.457	255	0.498	2.54	8.69	29.46	499	0.033	0.023	0.369	0.063
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22	0.762	255	0.803	4.22	14.19	48.37	817	0.151	0.106	1.120	0.190
20	0.914	255	0.955	5.06	16.85	57.59	972	0.245	0.171	1.655	0.281
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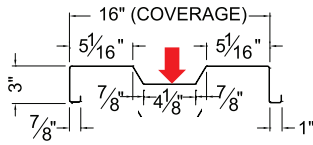
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22
1.83	S	2.2	3.5	4.9	6.0	8.1	1.6	2.5	3.5	4.5	6.6	1.9	3.0	4.1	5.3	7.8
	D	7.0	9.2	11.4	13.5	17.7	16.7	22.0	27.4	32.6	42.7	13.1	17.3	21.5	25.6	33.5
1.95	S	1.9	3.1	4.3	5.2	7.1	1.4	2.2	3.1	4.0	5.9	1.6	2.6	3.6	4.7	6.8
	D	5.7	7.6	9.4	11.2	14.7	13.8	18.2	22.7	27.0	35.3	10.8	14.3	17.8	21.1	27.7
2.10	S	1.6	2.6	3.7	4.5	6.1	1.2	1.9	2.7	3.5	5.0	1.4	2.3	3.1	4.0	5.9
	D	4.6	6.1	7.5	9.0	11.7	11.1	14.6	18.1	21.6	28.3	8.7	11.4	14.2	16.9	22.2
2.25	S	1.4	2.3	3.2	3.9	5.3	1.0	1.7	2.3	3.0	4.4	1.2	2.0	2.7	3.5	5.1
	D	3.7	4.9	6.1	7.3	9.5	9.0	11.9	14.8	17.6	23.0	7.1	9.3	11.6	13.8	18.0
2.40	S	1.3	2.0	2.8	3.5	4.7	0.9	1.5	2.0	2.6	3.9	1.1	1.7	2.4	3.1	4.5
	D	3.1	4.1	5.0	6.0	7.9	7.4	9.8	12.2	14.5	18.9	5.8	7.7	9.5	11.3	14.8
2.55	S	1.1	1.8	2.5	3.1	4.2	0.8	1.3	1.8	2.3	3.4	1.0	1.5	2.1	2.7	4.0
	D	2.6	3.4	4.2	5.0	6.6	6.2	8.1	10.1	12.1	15.8	4.8	6.4	7.9	9.5	12.4
2.70	S	1.0	1.6	2.2	2.7	3.7	0.7	1.2	1.6	2.1	3.1	0.9	1.4	1.9	2.4	3.6
	D	2.2	2.8	3.5	4.2	5.5	5.2	6.9	8.5	10.2	13.3	4.1	5.4	6.7	8.0	10.4
2.85	S	0.9	1.4	2.0	2.5	3.3	0.7	1.0	1.4	1.9	2.7	0.8	1.2	1.7	2.2	3.2
	D	1.8	2.4	3.0	3.6	4.7	4.4	5.8	7.3	8.6	11.3	3.5	4.6	5.7	6.8	8.9
3.00	S	0.8	1.3	1.8	2.2	3.0	0.6	0.9	1.3	1.7	2.5	0.7	1.1	1.5	2.0	2.9
	D	1.6	2.1	2.6	3.1	4.0	3.8	5.0	6.2	7.4	9.7	3.0	3.9	4.9	5.8	7.6
3.15	S	0.7	1.2	1.6	2.0	2.7	0.5	0.9	1.2	1.5	2.2	0.6	1.0	1.4	1.8	2.6
	D	1.4	1.8	2.2	2.7	3.5	3.3	4.3	5.4	6.4	8.4	2.6	3.4	4.2	5.0	6.6
3.30	S	0.7	1.1	1.5	1.8	2.5	0.5	0.8	1.1	1.4	2.0	0.6	0.9	1.3	1.6	2.4
	D	1.2	1.6	1.9	2.3	3.0	2.9	3.8	4.7	5.6	7.3	2.2	2.9	3.7	4.4	5.7
3.45	S	0.6	1.0	1.4	1.7	2.3	0.4	0.7	1.0	1.3	1.9	0.5	0.8	1.1	1.5	2.2
	D	1.0	1.4	1.7	2.0	2.6	2.5	3.3	4.1	4.9	6.4	2.0	2.6	3.2	3.8	5.0
3.60	S	0.6	0.9	1.3	1.5	2.1	0.4	0.7	0.9	1.2	1.7	0.5	0.8	1.1	1.4	2.0
	D	0.9	1.2	1.5	1.8	2.3	2.2	2.9	3.6	4.3	5.6	1.7	2.3	2.8	3.4	4.4

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5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Standard Loading table for strength values.



SCULPTURED STANDARD LOADING



SECTION PROPERTIES (Per Foot of Width)

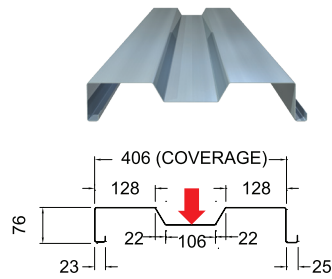
IMPERIAL

THICKNESS		Yield Strength (ksi)	Coated Steel Thickness (AZ50) (in)	Coated Mass (psf)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
Gauge	Base (in)				Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
26	0.018	37	0.020	1.20	0.18	0.37	0.347	2.3	1.6	25.3	4.3
24	0.024	37	0.026	1.59	0.23	0.48	0.458	5.5	3.9	47.4	8.1
22	0.030	37	0.032	1.99	0.29	0.60	0.570	10.3	7.2	76.7	13.0
20	0.036	37	0.038	2.39	0.34	0.71	0.678	16.8	11.7	113.4	19.3
18	0.048	37	0.050	3.17	0.45	0.94	0.889	34.5	24.2	207.8	35.3

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
6.00	S	55	77	99	122	168	50	78	111	137	183	59	92	129	160	213
	D	138	182	227	270	354	333	439	546	650	852	261	344	428	509	668
6.50	S	47	65	85	104	143	43	67	94	117	156	50	78	110	137	182
	D	109	143	178	212	278	262	345	430	511	670	205	270	337	401	525
7.00	S	40	56	73	90	124	37	58	81	101	134	43	67	95	118	157
	D	87	115	143	170	223	210	276	344	409	537	164	217	270	321	421
7.50	S	35	49	64	78	108	32	50	71	88	117	38	59	83	103	137
	D	71	93	116	138	181	170	225	280	333	436	134	176	219	261	342
8.00	S	31	43	56	69	95	28	44	62	77	103	33	51	73	90	120
	D	58	77	96	114	149	140	185	230	274	360	110	145	181	215	282
8.50	S	27	38	49	61	84	25	39	55	68	91	29	46	64	80	106
	D	49	64	80	95	124	117	154	192	229	300	92	121	151	179	235
9.00	S	24	34	44	54	75	22	35	49	61	81	26	41	57	71	95
	D	41	54	67	80	105	99	130	162	193	253	77	102	127	151	198
9.50	S	22	31	40	49	67	20	31	44	55	73	23	37	52	64	85
	D	35	46	57	68	89	84	111	138	164	215	66	87	108	128	168
10.00	S	20	28	36	44	61	18	28	40	49	66	21	33	46	58	77
	D	30	39	49	58	76	72	95	118	140	184	56	74	92	110	144
10.50	S	18	25	32	40	55	16	26	36	45	60	19	30	42	52	70
	D	26	34	42	50	66	62	82	102	121	159	49	64	80	95	125
11.00	S	16	23	30	36	50	15	23	33	41	54	18	27	38	48	63
	D	22	30	37	44	57	54	71	89	105	138	42	56	69	83	108
11.50	S	15	21	27	33	46	14	21	30	37	50	16	25	35	44	58
	D	20	26	32	38	50	47	62	78	92	121	37	49	61	72	95
12.00	S	14	19	25	30	42	13	20	28	34	46	15	23	32	40	53
	D	17	23	28	34	44	42	55	68	81	107	33	43	54	64	84

1. Based on ASTM A792 Structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations.
5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Reverse Loading table for strength values.



SCULPTURED STANDARD LOADING

SECTION PROPERTIES (Per Metre of Width)

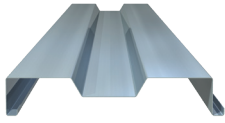
METRIC

THICKNESS		Yield Strength (MPa)	Coated Steel Thickness (AZM150) (mm)	Coated Mass (kg/m ²)	Section Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
Gauge	Base (mm)				Midspan (10 ³ mm ³)	Support (10 ³ mm ³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
26	0.457	255	0.498	2.54	9.42	19.64	474	0.033	0.023	0.369	0.063
24	0.610	255	0.651	3.37	12.41	25.86	625	0.081	0.056	0.692	0.118
22	0.762	255	0.803	4.22	15.44	32.21	778	0.151	0.106	1.120	0.190
20	0.914	255	0.955	5.06	18.39	38.35	926	0.245	0.171	1.655	0.281
18	1.219	255	1.260	6.71	24.09	50.31	1214	0.504	0.353	3.033	0.516

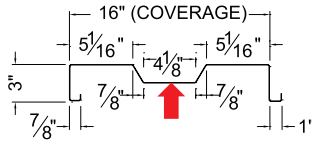
MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN					2 - SPAN					3 - SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22
1.80	S	2.7	3.8	4.9	6.0	8.3	2.5	3.9	5.5	6.8	9.0	2.9	4.5	6.4	7.9	10.5
	D	6.9	9.2	11.4	13.6	17.8	16.7	22.0	27.4	32.7	42.8	13.1	17.3	21.5	25.6	33.6
1.95	S	2.3	3.2	4.2	5.1	7.1	2.1	3.3	4.7	5.8	7.7	2.5	3.9	5.4	6.8	9.0
	D	5.5	7.2	9.0	10.7	14.0	13.2	17.3	21.6	25.7	33.7	10.3	13.6	16.9	20.1	26.4
2.10	S	2.0	2.8	3.6	4.4	6.1	1.8	2.8	4.0	5.0	6.6	2.1	3.3	4.7	5.8	7.7
	D	4.4	5.8	7.2	8.5	11.2	10.5	13.9	17.3	20.6	27.0	8.3	10.9	13.5	16.1	21.1
2.25	S	1.7	2.4	3.1	3.9	5.3	1.6	2.5	3.5	4.3	5.8	1.9	2.9	4.1	5.1	6.7
	D	3.6	4.7	5.8	6.9	9.1	8.6	11.3	14.0	16.7	21.9	6.7	8.8	11.0	13.1	17.2
2.40	S	1.5	2.1	2.8	3.4	4.7	1.4	2.2	3.1	3.8	5.1	1.6	2.5	3.6	4.5	5.9
	D	2.9	3.9	4.8	5.7	7.5	7.1	9.3	11.6	13.8	18.1	5.5	7.3	9.1	10.8	14.2
2.55	S	1.4	1.9	2.4	3.0	4.1	1.2	1.9	2.7	3.4	4.5	1.4	2.3	3.2	3.9	5.3
	D	2.4	3.2	4.0	4.8	6.3	5.9	7.8	9.7	11.5	15.1	4.6	6.1	7.6	9.0	11.8
2.70	S	1.2	1.7	2.2	2.7	3.7	1.1	1.7	2.4	3.0	4.0	12.9	2.0	2.8	3.5	4.7
	D	2.1	2.7	3.4	4.0	5.3	5.0	6.5	8.1	9.7	12.7	3.9	5.1	6.4	7.6	9.9
2.85	S	1.1	1.5	2.0	2.4	3.3	1.0	1.5	2.2	2.7	3.6	1.2	1.8	25.5	3.2	4.2
	D	1.7	2.3	2.9	3.4	4.5	4.2	5.6	6.9	8.2	10.8	3.3	4.4	5.4	6.4	8.5
3.00	S	1.0	1.4	1.8	2.2	3.0	0.9	1.4	2.0	2.4	3.2	1.0	1.6	2.3	2.9	3.8
	D	1.5	2.0	2.5	2.9	3.8	3.6	4.8	5.9	7.1	9.2	2.8	3.7	4.6	5.5	7.2
3.15	S	0.9	1.2	1.6	2.0	2.7	0.8	1.3	1.8	2.2	2.9	1.0	1.5	2.1	2.6	3.4
	D	1.3	1.7	2.1	2.5	3.3	3.1	4.1	5.1	6.1	8.0	2.4	3.2	4.0	4.8	6.3
3.30	S	0.8	1.1	1.5	1.8	2.5	0.7	1.2	1.6	2.0	2.7	0.9	1.3	1.9	2.4	3.1
	D	1.1	1.5	1.8	2.2	2.9	2.7	3.6	4.5	5.3	6.9	2.1	2.8	3.5	4.2	5.4
3.45	S	0.7	1.0	1.3	1.6	2.3	0.7	1.1	1.5	1.8	2.5	0.8	1.2	1.7	2.2	2.9
	D	1.0	1.3	1.6	1.9	2.5	2.4	3.1	3.9	4.6	6.1	1.9	2.5	3.1	3.6	4.8
3.60	S	0.7	0.9	1.2	1.5	2.1	0.6	1.0	1.4	1.7	2.3	0.7	1.1	1.6	2.0	2.6
	D	0.9	1.1	1.4	1.7	2.2	2.1	2.8	3.4	4.1	5.4	1.6	2.2	2.7	3.2	4.2

1. Based on ASTM A792M Structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations.
5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Reverse Loading table for strength values.



SCULPTURED REVERSE LOADING



SECTION PROPERTIES (Per Foot of Width)

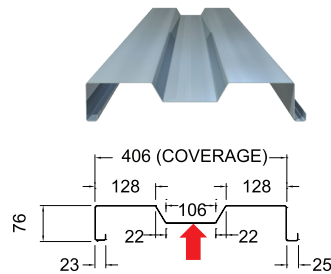
IMPERIAL

THICKNESS		Yield Strength (ksi)	Coated Steel Thickness (AZ50) (in)	Coated Mass (psf)	Section Modulus		Deflection Moment of Inertia (in ⁴)	Specified Web Crippling Data			
Gauge	Base (in)				Midspan (in ³)	Support (in ³)		Pe1 End (lb)	Pe2 End (lb)	Pi1 Interior (lb)	Pi2 Interior (lb)
26	0.018	37	0.020	1.20	0.18	0.37	0.347	2.3	1.6	25.3	4.3
24	0.024	37	0.026	1.59	0.23	0.48	0.458	5.5	3.9	47.4	8.1
22	0.030	37	0.032	1.99	0.29	0.60	0.570	10.3	7.2	76.7	13.0
20	0.036	37	0.038	2.39	0.34	0.71	0.678	16.8	11.7	113.4	19.3
18	0.048	37	0.050	3.17	0.45	0.94	0.889	34.5	24.2	207.8	35.3

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (psf)

SPAN LENGTH (ft)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)					BASE STEEL THICKNESS (in)				
		0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048	0.018	0.024	0.030	0.036	0.048
6.00	S	50	78	111	137	183	55	77	99	122	168	64	90	116	142	196
	D	138	182	227	270	354	333	439	546	650	852	261	344	428	509	668
6.50	S	43	67	94	117	156	47	65	85	104	143	55	76	99	121	167
	D	109	143	178	212	278	262	345	430	511	670	205	270	337	401	525
7.00	S	37	58	81	101	134	40	56	73	90	124	47	66	85	105	144
	D	87	115	143	170	223	210	276	344	409	537	164	217	270	321	421
7.50	S	32	50	71	88	117	35	49	64	78	108	41	57	74	91	126
	D	71	93	116	138	181	170	225	280	333	436	134	176	219	261	342
8.00	S	28	44	62	77	103	31	43	56	69	95	36	50	65	80	111
	D	58	77	96	114	149	140	185	230	274	360	110	145	181	215	282
8.50	S	25	39	55	68	91	27	38	49	61	84	32	45	58	71	98
	D	49	64	80	95	124	117	154	192	229	300	92	121	151	179	235
9.00	S	22	35	49	61	81	24	34	44	54	75	29	40	52	63	87
	D	41	54	67	80	105	99	130	162	193	253	77	102	127	151	198
9.50	S	20	31	44	55	73	22	31	40	49	67	26	36	46	57	78
	D	35	46	57	68	89	84	111	138	164	215	66	87	108	128	168
10.00	S	18	28	40	49	66	20	28	36	44	61	23	32	42	51	71
	D	30	39	49	58	76	72	95	118	140	184	56	74	92	110	144
10.50	S	16	26	36	45	60	18	25	32	40	55	21	29	38	46	64
	D	26	34	42	50	66	62	82	102	121	159	49	64	80	95	125
11.00	S	15	23	33	41	54	16	23	30	36	50	19	27	34	42	58
	D	22	30	37	44	57	54	71	89	105	138	42	56	69	83	108
11.50	S	14	21	30	37	50	15	21	27	33	46	18	24	32	39	53
	D	20	26	32	38	50	47	62	78	92	121	37	49	61	72	95
12.00	S	13	20	28	34	46	14	19	25	30	42	16	22	29	36	49
	D	17	23	28	34	44	42	55	68	81	107	33	43	54	64	84

1. Based on ASTM A792 Structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations.
5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Standard Loading table for strength values.



TECHLOC
ROOF & WALL PANEL

**SCULPTURED
REVERSE LOADING**

SECTION PROPERTIES (Per Metre of Width)

METRIC

THICKNESS		Yield Strength (MPa)	Coated Steel Thickness (AZM150) (mm)	Coated Mass (kg/m ²)	Section Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
Gauge	Base (mm)				Midspan (10 ³ mm ³)	Support (10 ³ mm ³)		Pe1 End (kN)	Pe2 End (kN)	Pi1 Interior (kN)	Pi2 Interior (kN)
26	0.457	255	0.498	2.54	9.42	19.64	474	0.033	0.023	0.369	0.063
24	0.610	255	0.651	3.37	12.41	25.86	625	0.081	0.056	0.692	0.118
22	0.762	255	0.803	4.22	15.44	32.21	778	0.151	0.106	1.120	0.190
20	0.914	255	0.955	5.06	18.39	38.35	926	0.245	0.171	1.655	0.281
18	1.219	255	1.260	6.71	24.09	50.31	1214	0.504	0.353	3.033	0.516

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOAD (kPa)

SPAN LENGTH (m)		1 - SPAN					2- SPAN					3 - SPAN				
		BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)					BASE STEEL THICKNESS (mm)				
		0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22	0.46	0.61	0.76	0.91	1.22
1.80	S	2.5	3.9	5.5	6.8	9.0	2.7	3.8	4.9	6.0	8.3	3.2	4.4	5.7	7.0	9.7
	D	6.9	9.2	11.4	13.6	17.8	16.7	22.0	27.4	32.7	42.8	13.1	17.3	21.5	25.6	33.6
1.95	S	2.1	3.3	4.7	5.8	7.7	2.3	3.2	4.2	5.1	7.1	2.7	3.8	4.9	6.0	8.3
	D	5.5	7.2	9.0	10.7	14.0	13.2	17.3	21.6	25.7	33.7	10.3	13.6	16.9	20.1	26.4
2.10	S	1.8	2.8	4.0	5.0	6.6	2.0	2.8	3.6	4.4	6.1	2.3	3.3	4.2	5.2	7.1
	D	4.4	5.8	7.2	8.5	11.2	10.5	13.9	17.3	20.6	27.0	8.3	10.9	13.5	16.1	21.1
2.25	S	1.6	2.5	3.5	4.3	5.8	1.7	2.4	3.1	3.9	5.3	2.0	2.8	3.7	4.5	6.2
	D	3.6	4.7	5.8	6.9	9.1	8.6	11.3	14.0	16.7	21.9	6.7	8.8	11.0	13.1	17.2
2.40	S	1.4	2.2	3.1	3.8	5.1	1.5	2.1	2.8	3.4	4.7	1.8	2.5	3.2	4.0	5.5
	D	2.9	3.9	4.8	5.7	7.5	7.1	9.3	11.6	13.8	18.1	5.5	7.3	9.1	10.8	14.2
2.55	S	1.2	1.9	2.7	3.4	4.5	1.4	1.9	2.4	3.0	4.1	1.6	2.2	2.9	3.5	4.8
	D	2.4	3.2	4.0	4.8	6.3	5.9	7.8	9.7	11.5	15.1	4.6	6.1	7.6	9.0	11.8
2.70	S	1.1	1.7	2.4	3.0	4.0	1.2	1.7	2.2	2.7	3.7	14.1	2.0	2.5	3.1	4.3
	D	2.1	2.7	3.4	4.0	5.3	5.0	6.5	8.1	9.7	12.7	3.9	5.1	6.4	7.6	9.9
2.85	S	1.0	1.5	2.2	2.7	3.6	1.1	1.5	2.0	2.4	3.3	1.3	1.8	2.29	2.8	3.9
	D	1.7	2.3	2.9	3.4	4.5	4.2	5.6	6.9	8.2	10.8	3.3	4.4	5.4	6.4	8.5
3.00	S	0.9	1.4	2.0	2.4	3.2	1.0	1.4	1.8	2.2	3.0	1.1	1.6	2.1	2.5	3.5
	D	1.5	2.0	2.5	2.9	3.8	3.6	4.8	5.9	7.1	9.2	2.8	3.7	4.6	5.5	7.2
3.15	S	0.8	1.3	1.8	2.2	2.9	0.9	1.2	1.6	2.0	2.7	1.0	1.4	1.9	2.3	3.2
	D	1.3	1.7	2.1	2.5	3.3	3.1	4.1	5.1	6.1	8.0	2.4	3.2	4.0	4.8	6.3
3.30	S	0.7	1.2	1.6	2.0	2.7	0.8	1.1	1.5	1.8	2.5	0.9	1.3	1.7	2.1	2.9
	D	1.1	1.5	1.8	2.2	2.9	2.7	3.6	4.5	5.3	6.9	2.1	2.8	3.5	4.2	5.4
3.45	S	0.7	1.1	1.5	1.8	2.5	0.7	1.0	1.3	1.6	2.3	0.9	1.2	1.6	1.9	2.6
	D	1.0	1.3	1.6	1.9	2.5	2.4	3.1	3.9	4.6	6.1	1.9	2.5	3.1	3.6	4.8
3.60	S	0.6	1.0	1.4	1.7	2.3	0.7	0.9	1.2	1.5	2.1	0.8	1.1	1.4	1.8	2.4
	D	0.9	1.1	1.4	1.7	2.2	2.1	2.8	3.4	4.1	5.4	1.6	2.2	2.7	3.2	4.2

1. Based on ASTM A792M Structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of 1/180th span.
4. Web crippling not included in strength calculations.
5. Section Properties are in accordance with CSA Standard S136-12.
6. For load direction opposite to that shown, use specified live load and the Standard Loading table for strength values.

STEELWAY
BUILDING SYSTEMS