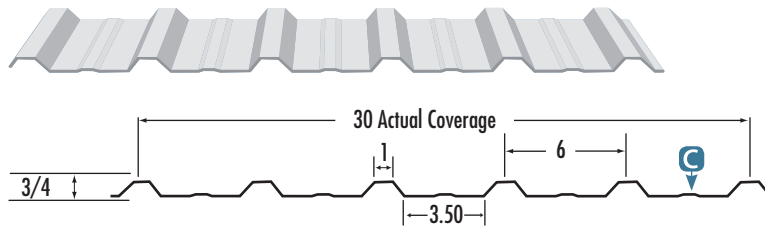




DIAMOND



C - Denotes Colored Side
All dimensions are in inches.

IMPERIAL	SECTION PROPERTIES (Per Foot of Width)									
	Base Steel Thickness (in.)	Coated Steel Thickness (G90) (in.)	Coated Weight (psf)	Sec. Modulus		Deflection Moment of Inertia (in. ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (lb)	P _{e2} End (lb)	P _{i1} Interior (lb)	P _{i2} Interior (lb)
				(in. ³)	(in. ³)					
0.0135	0.0150	0.718	0.0254	0.0236	0.0160	25.2	6.30	45.7	7.78	
0.0185	0.0200	0.963	0.0385	0.0364	0.0219	50.1	12.5	91.9	15.6	

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (psf)													
SPAN LENGTH (ft)		1 - SPAN				2 - SPAN				3 - SPAN			
		BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)				BASE STEEL THICKNESS (in.)			
		0.0135	0.0185			0.0135	0.0185			0.0135	0.0185		
2.0	S	84	127			78	120			97	150		
	D	175	239			419	573			330	452		
2.5	S	54	81			50	77			62	96		
	D	89	122			214	294			169	231		
3.0	S	37	57			35	53			43	67		
	D	52	71			124	170			98	134		
3.5	S	27	42			25	39			32	49		
	D	33	45			78	107			62	84		
4.0	S	21	32			19	30			24	38		
	D	22	30			52	72			41	56		
4.5	S	17	25			15	24			19	30		
	D	15	21			37	50			29	40		
5.0	S	13	20			12	19			16	24		
	D	11	15			27	37			21	29		

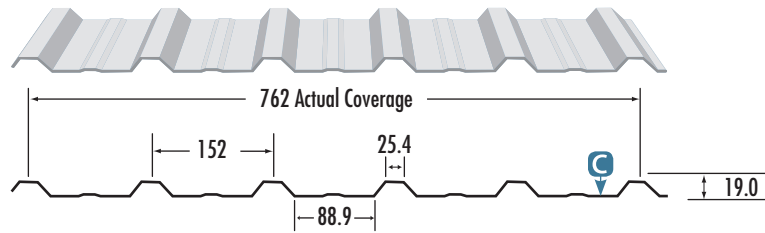
NOTES:

1. Based on ASTM A 653 Grade 33 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. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07
Load table prepared by Dr. R.M. Schuster P. Eng. University of Waterloo, Ontario, Canada.





DIAMOND



C - Denotes Colored Side

All dimensions are in millimeters.

SECTION PROPERTIES (Per Metre of Width)

METRIC	Base Steel Thickness (mm)	Coated Steel Thickness (Z275) (mm)	Coated Mass (kg/m ²)	Sec. Modulus		Deflection Moment of Inertia (10 ⁶ mm ⁴)	Specified Web Crippling Data			
				Midspan	Support		P _{e1} End (kN)	P _{e2} End (kN)	P _{i1} Interior (kN)	P _{i2} Interior (kN)
				(10 ³ mm ³)	(10 ³ mm ³)					
	0.343	0.383	3.51	1.38	1.29	0.0213	0.372	0.093	0.675	0.115
	0.470	0.510	4.70	2.09	1.97	0.0299	0.740	0.185	1.36	0.230

MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (kPa)

SPAN LENGTH (m)		1 - SPAN				2 - SPAN				3 - SPAN			
		BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)				BASE STEEL THICKNESS (mm)			
		0.343	0.470			0.343	0.470			0.343	0.470		
0.5	S	6.09	9.23			5.67	8.69			7.09	10.9		
	D	14.8	20.7			35.5	49.8			28.0	39.2		
0.6	S	4.23	6.41			3.94	6.03			4.93	7.54		
	D	8.56	12.0			20.5	28.8			16.2	22.7		
0.8	S	2.38	3.61			2.22	3.39			2.77	4.24		
	D	3.61	5.06			8.66	12.2			6.82	9.57		
1.0	S	1.52	2.31			1.42	2.17			1.77	2.71		
	D	1.85	2.59			4.44	6.22			3.49	4.90		
1.2	S	1.06	1.60			0.99	1.51			1.23	1.89		
	D	1.07	1.50			2.57	3.60			2.02	2.84		
1.4	S	0.78	1.18			0.72	1.11			0.90	1.39		
	D	0.67	0.94			1.62	2.27			1.27	1.79		
1.6	S	0.59	0.90			0.55	0.85			0.69	1.06		
	D	0.45	0.63			1.08	1.52			0.85	1.20		

NOTES:

1. Based on ASTM A 653M Grade 230 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. See Example.
- Limit States Design principles were used in accordance with CSA Standard S136-07
Load table prepared by Dr. R.M. Schuster P. Eng. University of Waterloo, Ontario, Canada.

