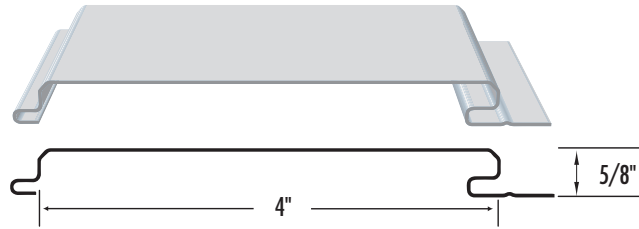




# PROBOARD 4



**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 <sup>4</sup> )	Specified Web Crippling Data			
				Midspan	Support		P <sub>e1</sub> End (lb)	P <sub>e2</sub> End (lb)	P <sub>i1</sub> Interior (lb)	P <sub>i2</sub> Interior (lb)
	(in <sup>3</sup> )	(in <sup>3</sup> )								
0.0240	0.0255	1.72	0.0632	0.0695	0.0256					
0.0300	0.0315	2.14	0.0827	0.0878	0.0332					

**Live load factor = 1.40; Importance factor = 0.75; Normal Occupancy = 1.0**

**MAXIMUM UNIFORMLY DISTRIBUTED SPECIFIED LOADS (psf)**

SPAN LENGTH (ft)		1 - SPAN												2 - SPAN												3 - SPAN											
		BASE STEEL THICKNESS (inches)						BASE STEEL THICKNESS (inches)						BASE STEEL THICKNESS (inches)						BASE STEEL THICKNESS (inches)																	
		0.0240	0.0300					0.0240	0.0300					0.0240	0.0300					0.0240	0.0300																
2.0	S	223	292				246	310					307	388					1407	1825																	
	D	744	965				1772	2298					1407	1825																							
2.5	S	143	187				157	199					197	248					720	934																	
	D	381	494				907	1176					720	934																							
3.0	S	99	130				109	138					137	172					417	541																	
	D	221	286				525	681					417	541																							
3.5	S	73	95				80	101					100	127					263	340																	
	D	139	180				331	429					263	340																							
4.0	S	56	73				61	78					77	97					176	228																	
	D	93	121				221	287					176	228																							
4.5	S	44	58				49	61					61	77					124	160																	
	D	65	85				156	202					124	160																							
5.0	S	36	47				39	50					49	62					90	117																	
	D	48	62				113	147					90	117																							
5.5	S	30	39				32	41					41	51					68	88																	
	D	36	46				85	110					68	88																							
6.0	S	25	32				27	34					34	43					52	68																	
	D	28	36				66	85					52	68																							

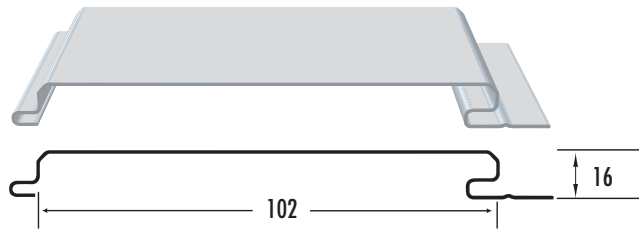
NOTES:

- 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 SPAN/90.
- 4 Limit States Design principles were used in accordance with CSA Standard S136-16.
- 5 Prepared by Dr. R.M. Schuster, P. Eng. Distinguished Professor Emeritus, University of Waterloo.





# PROBOARD 4



**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 <sup>2</sup> )	Sec. Modulus		Deflection Moment of Inertia (x10 <sup>6</sup> mm <sup>4</sup> )	Specified Web Crippling Data			
				Midspan	Support		P <sub>e1</sub> End (kN)	P <sub>e2</sub> End (kN)	P <sub>i1</sub> Interior (kN)	P <sub>i2</sub> Interior (kN)
				(x10 <sup>3</sup> mm <sup>3</sup> )	(x10 <sup>3</sup> mm <sup>3</sup> )					
	0.610	0.650	8.41	3.40	3.74	0.0350				
	0.762	0.802	10.4	4.45	4.72	0.0453				

**Live load factor = 1.40; Importance factor = 0.75; Normal Occupancy = 1.0**

### 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)							
		0.610	0.762	0.610	0.762	0.610	0.762						
0.6	S	11.2	14.6	12.3	15.5	15.4	19.4						
	D	37.4	48.5	89.7	116	70.7	91.6						
0.8	S	6.28	8.22	6.91	8.72	8.63	10.9						
	D	15.8	20.5	37.9	49.1	29.8	38.7						
1.0	S	4.02	5.26	4.42	5.58	5.53	6.98						
	D	8.07	10.5	19.4	25.1	15.3	19.8						
1.2	S	2.79	3.65	3.07	3.88	3.84	4.85						
	D	4.67	6.06	11.2	14.5	8.83	11.5						
1.4	S	2.05	2.68	2.26	2.85	2.82	3.56						
	D	2.94	3.82	7.06	9.16	5.56	7.21						
1.5	S	1.79	2.34	1.96	2.48	2.46	3.10						
	D	2.39	3.10	5.74	7.45	4.52	5.86						
1.6	S	1.57	2.05	1.73	2.18	2.16	2.73						
	D	1.97	2.56	4.73	6.14	3.73	4.83						
1.8	S	1.24	1.62	1.36	1.72	1.71	2.15						
	D	1.38	1.80	3.32	4.31	2.62	3.39						
2.0	S	1.00	1.31	1.11	1.40	1.38	1.74						
	D	1.01	1.31	2.42	3.14	1.91	2.47						

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 SPAN/90.
- 4 Limit States Design principles were used in accordance with CSA Standard S136-16.
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