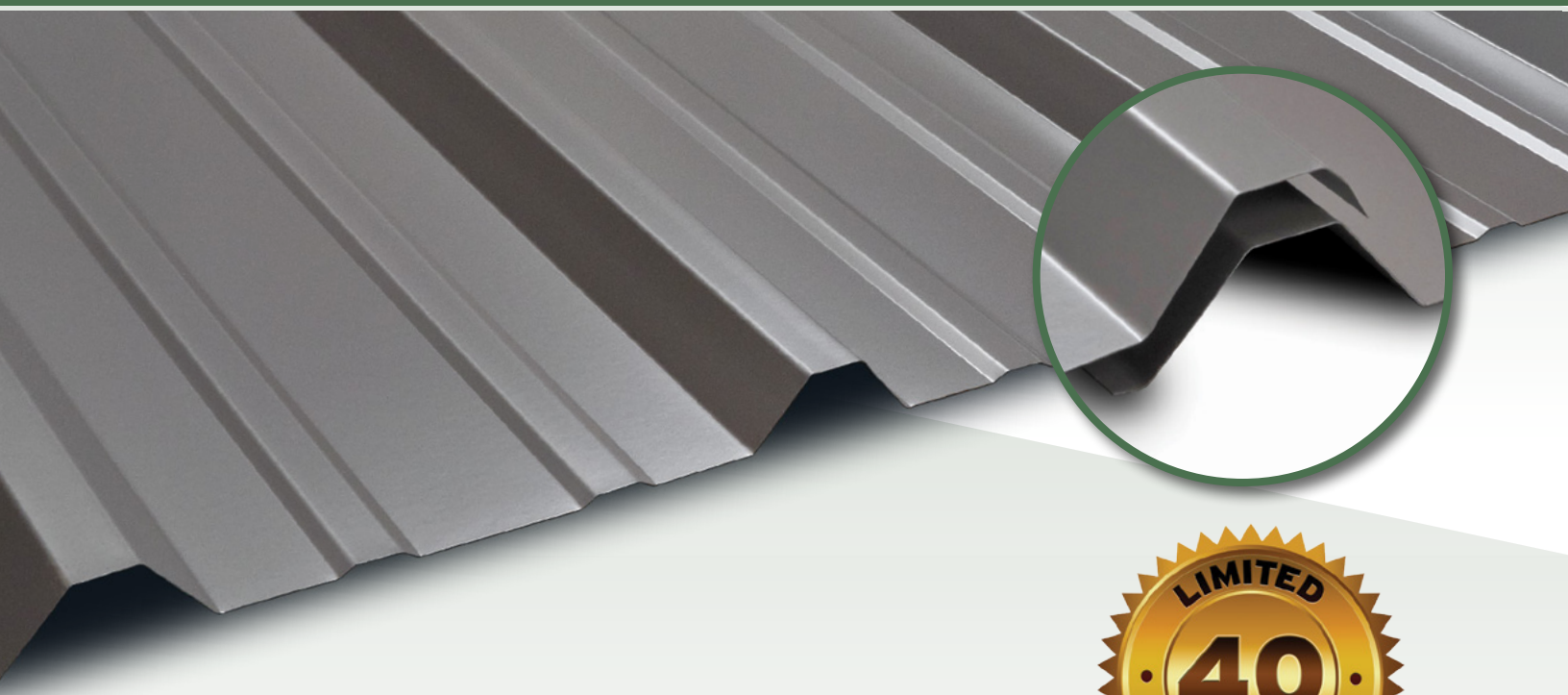
ideal roofing
Company Limited, Manufacturers

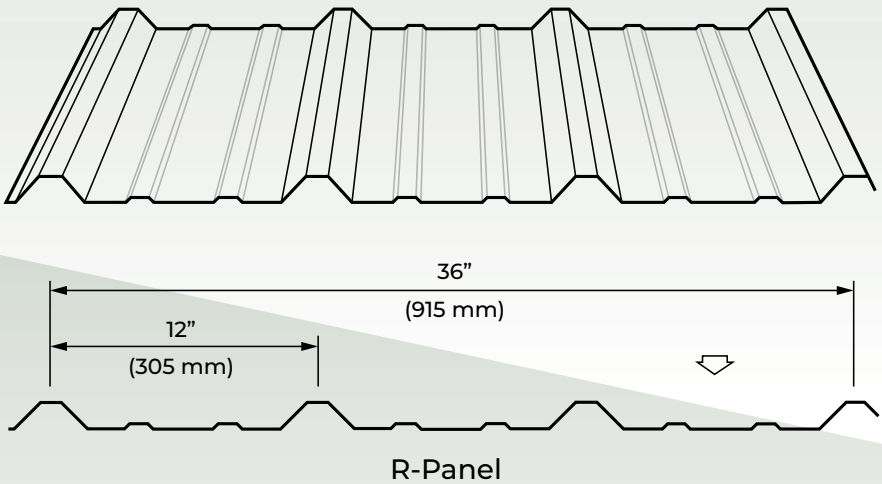
R-Panel

U.S. EDITION



We Outlast the Competition and Look Good Doing it!

Ideal Roofing's R-Panel is versatile, durable and is unmatched in quality and we back it with our 40-year warranty. With an extensive range of colors, we provide the best options for exposed fastener steel panel siding in the industry. Elegant and practical, it's the best in class.



R-Panel

- **Ideal for both wall and roof applications**
- **Protects against harsh weather**
- **Cost-effective and easy installation**
- **Perfectly suited for large industrial buildings**

Available Colors

Ash Grey	Dark Brown
Black	Tan
Bright Red	White
Burnished Slate	Regent Grey
Charcoal	Heron Blue
Forest Green	Galvalume

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STEEL PANEL

ENVIRONMENT-FRIENDLY.
THIS PRODUCT IS
ENTIRELY RECYCLABLE.

Canadian Sheet Steel Building Institute
A division of the Canadian Institute of Steel Construction

SECTION PROPERTIES

IMPERIAL						
SECTION PROPERTIES (PER FOOT OF WIDTH)						
Total Nominal Thickness (in.)	Base Steel Thickness (in.)	Coated Weight (psf)	Yield Stress (ksi)	Section Modulus		Deflection Moment of Inertia (in^4)
				Midspan (in^3)	Support (in^3)	
0.021	0.018	0.93	33	0.0367	0.0312	0.0362

METRIC						
SECTION PROPERTIES (PER METER OF WIDTH)						
Total Nominal Thickness (mm)	Base Steel Thickness (mm)	Coated Weight (kg/m^2)	Yield Stress (MPa)	Section Modulus		Deflection Moment of Inertia (10^6 mm^4)
				Midspan (10^3 mm^3)	Support (10^3 mm^3)	
0.533	0.457	4.56	230	1.97	1.68	0.0495

LOAD TABLE FOR ROOFING APPLICATION

IMPERIAL				
Maximum Uniformly Distributed Specified Loads (psf)				
LLF=1.5; IMPF=0.90; Normal Occupancy=1.0				
Span length (ft)		Nominal Steel Thickness 26 Gauge / 0.021"		
		1-Span	2-Span	3-Span
2.0	S	121	103	129
	D	439	1,045	830
2.5	S	78	66	82
	D	225	535	425
3.0	S	54	46	57
	D	130	310	246
3.5	S	40	34	42
	D	82	195	155
4.0	S	30	26	32
	D	55	131	104
4.5	S	24	20	25
	D	39	92	73
5.0	S	19	16	21
	D	28	67	53
5.5	S	16	14	17
	D	21	50	40
6.0	S	13	11	14
	D	16	39	31

Specified Web Crippling Data			
P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
23.1	5.77	43.9	7.47

METRIC				
Maximum Uniformly Distributed Specified Loads (kPa)				
LLF=1.5; IMPF=0.90; Normal Occupancy=1.0				
Span length (m)		Nominal Steel Thickness 26 Gauge / 0.533 mm		
		1-Span	2-Span	3-Span
0.6	S	6.04	5.14	6.42
	D	22.1	52.5	41.7
0.8	S	3.40	2.89	3.61
	D	9.30	22.1	17.6
1.0	S	2.18	1.85	2.31
	D	4.76	11.3	9.00
1.2	S	1.51	1.28	1.61
	D	2.76	6.56	5.21
1.4	S	1.11	0.94	1.18
	D	1.74	4.13	3.28
1.6	S	0.85	0.72	0.90
	D	1.16	2.77	2.20
1.8	S	0.67	0.57	0.71
	D	0.82	1.94	1.54
2.0	S	0.54	0.46	0.58
	D	0.60	1.42	1.13

Specified Web Crippling Data			
P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
0.340	0.0850	0.648	0.110

LOAD TABLE FOR SIDING APPLICATION

IMPERIAL				
Maximum Uniformly Distributed Specified Loads (psf)				
LLF=1.4; IMPF=0.90; Normal Occupancy=1.0				
Span length (ft)		Nominal Steel Thickness 26 Gauge / 0.021"		
		1-Span	2-Span	3-Span
2.0	S	130	110	138
	D	527	1,254	996
2.5	S	83	71	88
	D	270	642	510
3.0	S	58	49	61
	D	156	372	295
3.5	S	42	36	45
	D	98	234	186
4.0	S	32	28	34
	D	66	157	124
4.5	S	26	22	27
	D	46	110	87
5.0	S	21	18	22
	D	34	80	64
5.5	S	17	15	18
	D	25	60	48
6.0	S	14	12	15
	D	20	46	37

Specified Web Crippling Data			
P_{e1} End (lb)	P_{e2} End (lb)	P_{i1} Interior (lb)	P_{i2} Interior (lb)
24.7	6.18	47.1	8.00

METRIC				
Maximum Uniformly Distributed Specified Loads (kPa)				
LLF=1.4; IMPF=0.90; Normal Occupancy=1.0				
Span length (m)		Nominal Steel Thickness 26 Gauge / 0.533 mm		
		1-Span	2-Span	3-Span
0.6	S	6.48	5.51	6.88
	D	26.5	63.0	50.0
0.8	S	3.64	3.10	3.87
	D	11.2	26.6	21.1
1.0	S	2.33	1.98	2.48
	D	5.72	13.6	10.8
1.2	S	1.62	1.38	1.72
	D	3.31	7.87	6.25
1.4	S	1.19	1.01	1.26
	D	2.08	4.96	3.94
1.6	S	0.91	0.77	0.97
	D	1.40	3.32	2.64
1.8	S	0.72	0.61	0.76
	D	0.98	2.33	1.85
2.0	S	0.58	0.50	0.62
	D	0.71	1.70	1.35

Specified Web Crippling Data			
P_{e1} End (kN)	P_{e2} End (kN)	P_{i1} Interior (kN)	P_{i2} Interior (kN)
0.365	0.0910	0.694	0.118

Notes: 1. Based on ASTM A 653 structural steel.
2. Values in row "S" are based on strength.
3. Values in row "D" are based on deflection of SPAN/180.
4. Web crippling not included in strength calculations.
5. Limit States Design principles were used in accordance with CSA Standard S136-16.

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Printed in Canada / November 2024