

### Legend

1. Structural Support
2. Vapourguard 32 Metal Panel
3. Notched Z Bar Sub Girt
4. U-Channel Base
5. Semi-Rigid Insulation (by others)
6. Exterior Cladding Profile
7. Foundation

**Vapourguard 32** a factory caulked metal liner panel. It is a multi-purpose component of an insulated wall or roof system.

- As an air/vapour retarder, the liner panel is supplied with caulking in the sidelaps of the sheets. The addition of caulking endlaps and opening perimeters during installation will ensure an airtight wall and/or roof system. Properly installed, the **Vapourguard 32** panel acts as an air barrier and prevents migration of warm moist air into the insulation cavity from the building interior.
- As a structural member, it provides support for the insulating material.
- As an interior liner panel, it provides an aesthetically pleasing surface.
- As an acoustical liner, the **Vapourguard 32** panel can be perforated.

### MATERIAL SPECIFICATIONS/FINISHES

The **Vapourguard 32** can be fabricated from steel or aluminum material. Steel having a minimum yield of 230 MPa (33 ksi) may be hot-dipped galvanized to Z275 (G90) designation per ASTM specification A653/A653M or aluminum zinc coated to AZ150 per ASTM specification A792/A792M.

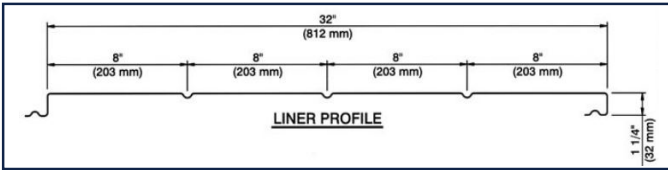
### MATERIAL SPECIFICATIONS/FINISHES

	.46 mm (0.018")	.61 mm (0.024")	.76 mm (0.030")	.91 mm (0.036")	Standard Lengths
Galvanized	✓	✓	○	○	4' - 24'
Plain Galvalume	○	○	○	○	4' - 24'
Prepaint Galvalume	✓	✓	○	○	4' - 24'
Aluminum	○	○	○	○	4' - 24'

○ indicates profile may be manufactured to combination thickness/finish

✓ indicates thickness/finish combination available from stock

## LIMIT STATES DESIGN



## PHYSICAL PROPERTIES

Imperial - Per Foot Width in Accordance with CAN/CSA S136-01

Base Steel Nominal Thickness (inches)	Nominal Coated Thickness AZ150 (inches)	Mass with AZ150 Coating (lb/ft <sup>2</sup> )	Section Modulus		Moment of Inertia Midspan (in <sup>4</sup> )	Factored Resistance Moment		Specified Crippling Bearing (in) = 2.5	
			MIDSPAN	SUPPORT		MIDSPAN	SUPPORT	END	INTERIOR
0.0180	0.0195	0.8778	0.0101	0.0129	0.00772	25.00	31.93	37	66
0.0240	0.0255	1.1478	0.0136	0.0169	0.01104	33.66	41.83	67	114
0.0300	0.0315	1.4178	0.0170	0.0208	0.01471	42.08	51.48	103	172
0.0360	0.0375	1.6878	0.0204	0.0246	0.01853	50.49	60.89	145	242

## LOAD TABLES

Maximum Specified Uniformly Distributed Load in lb/ft<sup>2</sup> (psf)

Span (ft)		Single Span				Two Span				Three Span			
		Base Steel Nominal Thickness (inches)				Base Steel Nominal Thickness (inches)				Base Steel Nominal Thickness (inches)			
		0.018	0.024	0.030	0.036	0.018	0.024	0.030	0.036	0.018	0.024	0.030	0.036
3.0	B	15	20	25	30	19	25	31	36	24	31	38	45
3.0	D	25	26	48	60	60	86	114	144	47	67	90	113
4.0	B	8	11	14	17	11	14	17	20	13	17	21	25
4.0	D	11	15	20	25	25	36	48	61	20	28	38	48
5.0	B	5	7	9	11	7	9	11	13	9	11	14	16
5.0	D	5	8	10	13	13	19	25	31	10	15	19	24
6.0	B	4	5	6	7	5	6	8	9	6	8	10	11
6.0	D	3	4	6	7	8	11	14	18	6	8	11	14
7.0	B	3	4	5	5	3	5	6	7	4	6	7	8
7.0	D	2	3	4	5	5	7	9	11	4	5	7	9
7.5	B	2	3	4	5	3	4	5	6	4	5	6	7
7.5	D	2	2	3	4	4	5	7	9	3	4	6	7

## PHYSICAL PROPERTIES

Metric - Per Metre Width in Accordance with CAN/CSA S136-01

Base Steel Nominal Thickness (mm)	Nominal Coated Thickness AZ150 (mm)	Mass with AZ150 Coating (kg/m <sup>2</sup> )	Section Modulus		Moment of Inertia Midspan (in <sup>4</sup> )	Factored Resistance Moment		Specified Crippling Bearing (in) = 2.5	
			MIDSPAN (mm <sup>3</sup> x103)	SUPPORT (mm <sup>3</sup> x103)		MIDSPAN (N-m)	SUPPORT (N-m)	END (N/m)	INTERIOR (N/m)
0.457	0.495	4.29	0.543	0.694	10.542	112	144	540	963
0.610	0.648	5.60	0.731	0.909	15.076	151	188	978	1664
0.762	0.800	6.92	0.914	1.118	20.088	189	231	1503	2510
0.914	0.952	8.24	1.097	1.323	25.304	227	274	2116	3532

## LOAD TABLES

Maximum Specified Uniformly Distributed Load in kN/m<sup>2</sup> (kPa)

Span (mm)		Single Span				Two Span				Three Span			
		Base Steel Nominal Thickness (mm)				Base Steel Nominal Thickness (mm)				Base Steel Nominal Thickness (mm)			
		0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914	0.457	0.610	0.762	0.914
900	B	0.74	1.00	1.25	1.50	0.95	1.24	1.52	1.80	1.18	1.55	1.90	2.25
900	D	1.25	1.79	2.39	3.01	3.02	4.31	5.75	7.24	2.36	3.38	4.51	5.68
1200	B	0.42	0.56	0.70	0.84	0.53	0.70	0.86	1.01	0.67	0.87	1.07	1.27
1200	D	0.53	0.76	1.01	1.27	1.27	1.82	2.43	3.06	1.00	1.43	1.90	2.39
1500	B	0.27	0.236	0.45	0.54	0.34	0.45	0.55	0.65	0.43	0.56	0.69	0.81
1500	D	0.27	0.39	0.52	0.65	0.65	0.93	1.24	1.56	0.51	0.73	0.97	1.23
1800	B	0.19	0.25	0.31	0.37	0.24	0.31	0.38	0.45	0.30	0.39	0.48	0.56
1800	D	0.16	0.22	0.30	0.38	0.38	0.54	0.72	0.91	0.30	0.42	0.56	0.71
2100	B	0.14	0.18	0.23	0.27	0.17	0.23	0.28	0.33	0.22	0.28	0.35	0.41
2100	D	0.10	0.14	0.19	0.24	0.24	0.34	0.45	0.57	0.19	0.27	0.35	0.45
2250	B	0.12	0.16	0.20	0.24	0.15	0.20	0.24	0.29	0.19	0.25	0.30	0.36
2250	D	0.08	0.11	0.15	0.19	0.19	0.28	0.37	0.46	0.15	0.22	0.29	0.36

### VAPOURGUARD 323 Grade 33 (248 MPa) Notes:

- Properties and loads are based on Grade 3
- Figures in row B indicate the load capacity based on strength. Strength capacity B should be checked against (Specified Live Load) + (0.833 x Specified Dead Load).
- Figures in row D indicate the load capacity based on deflection of 1/180th span. For allowable deflection of the 1/90th span, values in row D may be doubled, but capacity should be checked against specified load(s). Bearing of panels on supports must be checked on short spans and high loading.
- Data for aluminum available upon request.