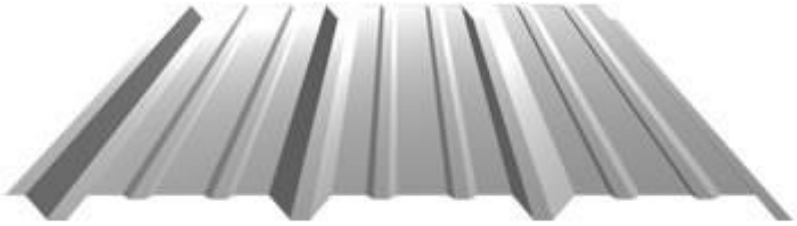
Valley Steel Buildings Group Reverse R-Panel
Metal Wall Panel System

The Reverse R-Panel wall is a strong, attractive wall panel ideal for multiple applications. The panels offer a rigid surface designed to compress up to 6” of insulation without causing unsightly bulges at the girt. Fasteners are semi-concealed, allowing attention to focus on the beauty of the wall.



Panel Credentials

- ASTM E283 Test Method for Determining Air Leakage Through Wall Systems
- ASTM E331 Test Method for Water Penetration of Exterior Wall Systems
- State of Florida Product Approval
- Miami-Dade County Notice of Acceptance (NOA)
- UL263 Fire Tests of Building Construction and Materials
- ASTM C1363-11 Test Method for Thermal Performance of Building Materials and Envelope Assemblies by Means of a Hot Box Apparatus

Panel Specifications

						TOP IN COMPRESSION		BOTTOM IN COMPRESSION	
Gage	Thickness (in.)	Yield (ksi)	Tensile (ksi)	Panel Wt. (psf)	I_x (Gross) (in^4)	S_x (eff.) (in^3)	M_a (kip-in)	S_x (eff.) (in^3)	M_a (kip-in)
26	0.0177	80	82	0.86	0.0477	0.0445	1.5993	0.0356	1.2800
24	0.0222	80	82	1.08	0.0600	0.0566	2.0333	0.0491	1.7667

Panel Capacity (psf)

	26 GAGE		24 GAGE	
SPAN (ft.)	Pressure[7]	Suction[4,8]	Pressure[7]	Suction[4,8]
3.0	79	72	120	75
3.5	67	62	103	64
4.0	59	54	90	56
4.5	51	48	71	50
5.0	42	43	58	45
5.5	35	40	48	41
6.0	29	36	40	38
6.5	25	31	35	35
7.0	22	27	30	32
7.5	19	23	26	30

NOTES

1. Section properties were calculated in accordance with AISI S100/CSA S136, 2016 Edition.
2. Panels were checked for bending, shear, combined bending and shear, web crippling, deflection and panel pullover.
3. Deflection is limited to Span/60.
4. Panel pullover limits are based on d'w = 0.44".
5. Thermal load has not been considered.
6. Capacities are based on a 3-span condition with equal length spans.
7. "Pressure" load is applied inward on the outer surface towards supports.
8. "Suction" load is applied outward on the inner surface away from panel supports.