

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



The R-Panel wall is a strong, attractive wall panel ideal for commercial, community, and industrial applications. This panel delivers what most builders, contractors, and owners have come to expect from us in a versatile and attractive building system.



## 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
- UL263 Fire Tests of Building Construction and Materials

## Panel Specifications

| Gage | Thickness (in.) | Yield (ksi) | Tensile (ksi) | Panel Wt. (psf) | I <sub>x</sub> (Gross) (in <sup>4</sup> ) | TOP IN COMPRESSION                       |                         | BOTTOM IN COMPRESSION                    |                         |
|------|-----------------|-------------|---------------|-----------------|---|--|-------------------------|--|-------------------------|
|      |                 |             |               |                 |   | S <sub>x</sub> (eff.) (in <sup>3</sup> ) | M <sub>a</sub> (kip-in) | S <sub>x</sub> (eff.) (in <sup>3</sup> ) | M <sub>a</sub> (kip-in) |
| 26   | 0.0177          | 80          | 82            | 0.86            | 0.0490                                    | 0.0378                                   | 1.3590                  | 0.0462                                   | 1.6593                  |
| 24   | 0.0222          | 80          | 82            | 1.08            | 0.0633                                    | 0.0543                                   | 1.9520                  | 0.0588                                   | 2.1133                  |

### Panel Capacity (psf)

| SPAN (ft.) | 26 GAGE               |                        | 24 GAGE               |                        |
|------------|-----------------------|------------------------|-----------------------|------------------------|
|            | Pressure <sup>7</sup> | Suction <sup>4,8</sup> | Pressure <sup>7</sup> | Suction <sup>4,8</sup> |
| 3.0        | 79                    | 72                     | 120                   | 75                     |
| 3.5        | 68                    | 62                     | 103                   | 64                     |
| 4.0        | 59                    | 54                     | 90                    | 56                     |
| 4.5        | 53                    | 48                     | 80                    | 50                     |
| 5.0        | 47                    | 43                     | 69                    | 45                     |
| 5.5        | 43                    | 37                     | 57                    | 41                     |
| 6.0        | 37                    | 31                     | 48                    | 38                     |
| 6.5        | 32                    | 26                     | 41                    | 35                     |
| 7.0        | 28                    | 23                     | 36                    | 32                     |
| 7.5        | 24                    | 20                     | 31                    | 29                     |

### 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.