ideal roofing
Company Ltd Manufacturers

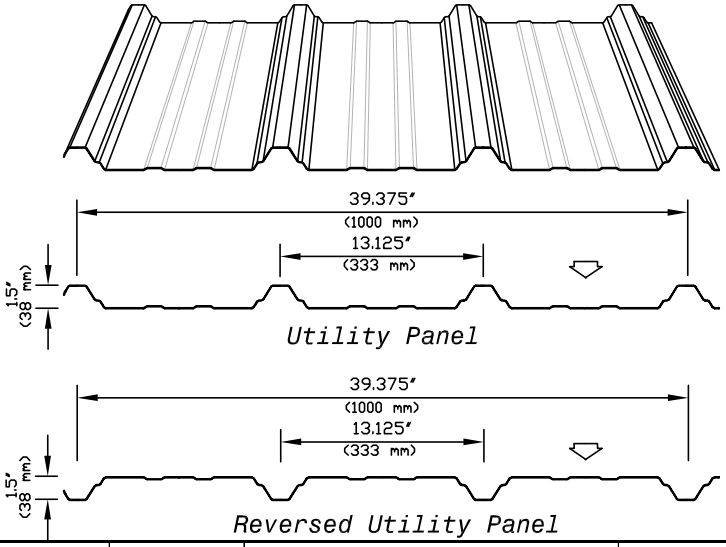
# Utility Panel

The "Utility Panel" is one of Ideal's most versatile panels, since it can be used as both roofing and siding on steel or wood structures on commercial or industrial buildings.

As a roofing panel, the "Utility Panel" has been designed to provide maximum economy with only sacrificing slightly its structural spanning ability. In fact, Ideal's "Utility Panel", when manufactured in 26 gauge (.021"/0.54mm thick), can be installed over purlins at 48" (1220mm) centers in almost any area of eastern Canada and the north-eastern United States.

This product is roll-formed in panels with four 1½" (38mm) high ribs at 13.125" (333mm) centers, covering 39.375" (1000mm) in width and custom-cut in lengths of up to 40 feet (12.2m) for fast and easy installation.

For siding installations only, this panel can also be reversed and is referred to as the "Reversed Utility Panel".




| Total Nominal Thickness (mm) | Core Nominal Thickness (mm) | Moment Resistance | | Moment of Inertia ($mm^4 x 10^3$) |
|---|---|---|---|---|
| | | Mid-Span (m-kg) | Support (m-kg) | |
| 0.50 | 0.46 | 13.3 | 13.4 | 86 |
| 0.65 | 0.61 | 19.1 | 18.2 | 119 |
| 0.80 | 0.76 | 24.0 | 23.1 | 151 |

## AVAILABLE MATERIALS

**Mill finish Galvanized Steel**
- (ASTM A-653 SS, grade 33, *Z275* (G-90));
  gauges: 26 (.021"/0.54mm thick),
  24 (.026"/0.66mm thick),
  22 (.032"/0.81mm thick),
  20 (.038"/0.96mm thick).

**Mill finish Galvalume Plus Steel**
- (ASTM A-792 SS, grade 33, AZ180);
  gauges: 26 (.021"/0.54mm thick),
  24 (.026"/0.66mm thick),
  22 (.032"/0.81mm thick).

**Pre-painted Galvanized Steel**
- (ASTM A-653 SS, grade 33, Z275 (G-90));
  Perspectra/Weather XL Series: see colour chart *1;
  gauges: 26 (.021"/0.54mm thick),
  24 (.026"/0.66mm thick),
  22 (.032"/0.81mm thick).

| | |
|---|---|
| Minimum Yield Stress | Fy = 33,000.00 P.S.I. (228 Mpa) |
| Maximum Working Stress | Fb = 20,625.00 P.S.I. (144 Mpa) |
| Young's Modulus | (E) = 29,500,000.00 P.S.I. (203 Mpa) |

*1): Other finishes and gauges are available, contact our office

**(METRIC)**

| UNIFORMLY DISTRIBUTED LOADS (Kpa) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Span Condition | Span (mm) | 26 gauge (0.50mm) | | 24 gauge (0.65mm) | | 22 gauge (0.80mm) | |
| | | B | D | B | D | B | D |
| SINGLE | 610 | 9.37 | 33.64 | 13.47 | 46.38 | 16.99 | 59.02 |
| | 762 | 6.00 | 17.23 | 8.64 | 23.73 | 10.89 | 30.22 |
| | 915 | 4.15 | 9.96 | 6.00 | 13.77 | 7.57 | 17.48 |
| | 1067 | 3.08 | 6.30 | 4.39 | 8.64 | 5.57 | 11.03 |
| | 1220 | 2.34 | 4.20 | 3.37 | 5.81 | 4.25 | 7.37 |
| | 1372 | 1.86 | 2.93 | 2.69 | 4.05 | 3.37 | 5.17 |
| | 1524 | 1.51 | 2.15 | 2.15 | 2.98 | 2.73 | 3.76 |
| | 1675 | 1.22 | 1.61 | 1.81 | 2.25 | 2.25 | 2.83 |
| | 1829 | 1.03 | 1.27 | 1.51 | 1.71 | 1.90 | 2.20 |
| | 1982 | 0.88 | 0.88 | 1.27 | 1.37 | 1.61 | 1.71 |
| | 2134 | 0.78 | 0.78 | 1.12 | 1.07 | 1.37 | 1.37 |
| | 2286 | 0.68 | 0.58 | 0.90 | 0.88 | 1.22 | 1.12 |
| | 2439 | 0.59 | 0.54 | 0.83 | 0.73 | 1.07 | 0.93 |
| | 2591 | 0.54 | 0.44 | 0.73 | 0.59 | 0.93 | 0.78 |
| | 2744 | 0.49 | 0.39 | 0.68 | 0.49 | 0.83 | 0.63 |
| DOUBLE | 610 | 9.47 | 80.70 | 12.84 | 111.31 | 16.31 | 141.72 |
| | 762 | 6.05 | 41.30 | 8.20 | 57.02 | 10.45 | 72.55 |
| | 915 | 4.20 | 23.92 | 5.71 | 33.00 | 7.23 | 41.99 |
| | 1067 | 3.08 | 15.04 | 4.20 | 20.75 | 5.32 | 26.46 |
| | 1220 | 2.34 | 10.11 | 3.22 | 13.91 | 13.91 | 17.72 |
| | 1372 | 1.86 | 7.08 | 2.54 | 9.76 | 3.22 | 12.45 |
| | 1524 | 1.51 | 5.17 | 2.05 | 7.13 | 2.59 | 9.08 |
| | 1675 | 1.27 | 3.86 | 1.71 | 5.37 | 2.15 | 6.83 |
| | 1829 | 1.07 | 2.98 | 1.42 | 4.10 | 1.81 | 5.27 |
| | 1982 | 0.88 | 2.34 | 1.22 | 3.22 | 1.56 | 4.15 |
| | 2134 | 0.78 | 1.90 | 1.03 | 2.59 | 1.32 | 3.32 |
| | 2286 | 0.68 | 1.51 | 0.93 | 2.10 | 1.17 | 2.69 |
| | 2439 | 0.59 | 1.27 | 1.76 | 1.76 | 1.03 | 2.20 |
| | 2591 | 0.54 | 1.07 | 0.73 | 1.46 | 0.88 | 1.86 |
| | 2744 | 0.49 | 0.88 | 0.63 | 1.22 | 0.78 | 1.56 |
| TRIPLE | 610 | 11.81 | 63.56 | 16.01 | 87.68 | 20.36 | 111.60 |
| | 762 | 7.57 | 32.56 | 10.25 | 44.87 | 13.03 | 57.12 |
| | 915 | 5.27 | 18.84 | 7.13 | 25.97 | 9.03 | 33.05 |
| | 1067 | 3.86 | 11.86 | 5.22 | 16.35 | 6.64 | 20.80 |
| | 1220 | 2.98 | 7.96 | 4.00 | 10.94 | 5.08 | 13.96 |
| | 1372 | 2.34 | 5.57 | 3.17 | 7.71 | 4.00 | 9.81 |
| | 1524 | 1.90 | 4.05 | 2.59 | 5.61 | 3.27 | 7.13 |
| | 1675 | 1.56 | 2.59 | 2.10 | 4.20 | 2.69 | 5.37 |
| | 1829 | 1.32 | 2.34 | 1.76 | 3.27 | 2.25 | 4.15 |
| | 1982 | 1.12 | 1.86 | 1.51 | 2.54 | 1.95 | 3.27 |
| | 2134 | 0.98 | 1.47 | 1.32 | 2.05 | 1.66 | 2.59 |
| | 2286 | 0.83 | 1.22 | 1.12 | 1.66 | 1.46 | 2.10 |
| | 2439 | 0.73 | 0.98 | 1.03 | 1.37 | 1.27 | 1.76 |
| | 2591 | 0.63 | 0.83 | 0.88 | 1.12 | 1.12 | 1.46 |
| | 2744 | 0.59 | 0.68 | 0.78 | 0.98 | 1.03 | 1.22 |

B = Load reduced for web crippling D = Deflection based on L/180


ideal roofing
Company Ltd Manufacturers

1418 Michael St.
Ottawa, Ont., Canada K1B 3R2
Tel: (613) 746-3206
Fax: (613) 746-0445
Wats Line: 1-800-267-0860
Email: info@idealroofing.ca