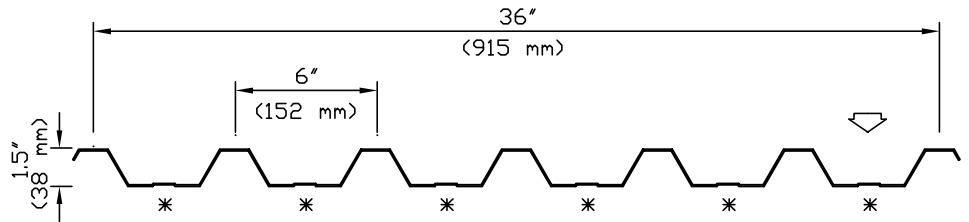
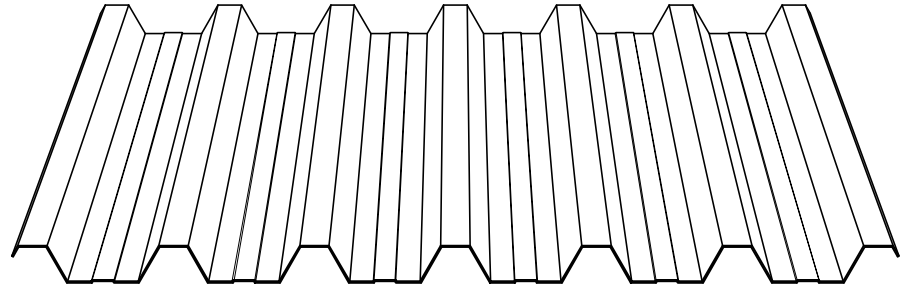


Ideal Roofing's "Universal-Rib" was designed with strength as its main criteria. The "Universal-Rib" can be used for wall or roof applications in either new construction or renovation. Industrial and commercial buildings will look good for years, while being protected from the environment with this strong and handsome panel.

The "Universal-Rib" offers superior strength and rigidity with its seven 1½" (38mm) deep ribs and can be fastened to wood or metal structures. This product is roll-formed in panels covering 36" (915mm) in width and custom-cut in lengths up to 40 feet (12.2m) for fast and easy installation.



### 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));
- 8000 + 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.<br>(228 Mpa)      |
| Maximum Working Stress Fb | = 20,625.00 P.S.I.<br>(144 Mpa)         |
| Young's Modulus           | (E) = 29,500,000.00 P.S.I.<br>(203 Mpa) |

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

\* Stiffener ribs can be removed when specified by customer

### Universal Rib

| Total Nominal Thickness (in.) | Core Nominal Thickness (in.) | Section Modulus             |                             | Moment of inertia In-4 | Allowable reaction End (lb) |
|-------------------------------|------------------------------|-----------------------------|-----------------------------|------------------------|-----------------------------|
|                               |                              | Midspan in <sup>2</sup> /ft | Support in <sup>2</sup> /ft |                        |                             |
| 0.021                         | 0.018                        | 0.0854                      | 0.0967                      | 0.0728                 | 112                         |
| 0.026                         | 0.024                        | 0.1293                      | 0.1445                      | 0.1090                 | 274                         |
| 0.032                         | 0.030                        | 0.1668                      | 0.1799                      | 0.1507                 | 493                         |
| 0.038                         | 0.036                        | 0.2053                      | 0.2150                      | 0.1970                 | 754                         |

### (IMPERIAL)

| UNIFORMLY DISTRIBUTED LOADS (pounds/square foot) |               |                  |     |                  |     |                  |     |                  |     |
|--|---------------|------------------|-----|------------------|-----|------------------|-----|------------------|-----|
| Span Condition                                   | Span (inches) | 26 gauge (.021") |     | 24 gauge (.026") |     | 22 gauge (.032") |     | 20 gauge (.038") |     |
|  |               | B                | D   | B                | D   | B                | D   | B                | D   |
| S<br>I<br>N<br>G<br>L<br>E                       | 48            | 56               | 75  | 111              | 112 | 143              | 154 | 176              | 202 |
|  | 54            | 50               | 52  | 88               | 78  | 113              | 108 | 139              | 142 |
|  | 60            | 45               | 38  | 71               | 57  | 92               | 79  | 113              | 103 |
|  | 66            | 39               | 29  | 59               | 43  | 76               | 59  | 93               | 78  |
|  | 72            | 33               | 22  | 49               | 33  | 64               | 46  | 78               | 60  |
|  | 78            | 28               | 17  | 42               | 26  | 54               | 36  | 67               | 47  |
|  | 84            | 24               | 14  | 36               | 21  | 47               | 29  | 58               | 38  |
|  | 90            | 21               | 11  | 32               | 17  | 41               | 23  | 50               | 31  |
|  | 96            | 18               | 9   | 28               | 14  | 36               | 19  | 44               | 25  |
|  | 102           | 16               | 8   | 25               | 12  | 37               | 16  | 39               | 21  |
|  | 108           | 14               | 7   | 22               | 10  | 28               | 14  | 35               | 18  |
|  | 114           | 13               | 6   | 20               | 8   | 25               | 12  | 31               | 15  |
| 120  | 12            | 5                | 10  | 7                | 23  | 10               | 28  | 13               |     |
| D<br>O<br>U<br>B<br>L<br>E                       | 48            | 62               | 179 | 121              | 268 | 155              | 370 | 185              | 484 |
|  | 54            | 55               | 126 | 98               | 188 | 122              | 260 | 146              | 340 |
|  | 60            | 49               | 92  | 79               | 137 | 99               | 190 | 118              | 248 |
|  | 66            | 44               | 69  | 66               | 103 | 82               | 143 | 98               | 186 |
|  | 72            | 37               | 53  | 55               | 79  | 69               | 110 | 82               | 143 |
|  | 78            | 31               | 42  | 47               | 62  | 59               | 86  | 70               | 113 |
|  | 84            | 27               | 33  | 41               | 50  | 50               | 69  | 60               | 90  |
|  | 90            | 24               | 27  | 35               | 41  | 44               | 56  | 53               | 73  |
|  | 96            | 21               | 22  | 31               | 33  | 39               | 46  | 46               | 61  |
|  | 102           | 18               | 19  | 28               | 28  | 34               | 39  | 41               | 50  |
|  | 108           | 16               | 16  | 25               | 24  | 31               | 33  | 36               | 43  |
|  | 114           | 15               | 13  | 22               | 20  | 27               | 28  | 33               | 36  |
| 120  | 13            | 11               | 20  | 17               | 25  | 24               | 30  | 31               |     |
| T<br>R<br>I<br>P<br>L<br>E                       | 48            | 70               | 141 | 137              | 211 | 193              | 292 | 231              | 381 |
|  | 54            | 62               | 99  | 122              | 148 | 153              | 205 | 182              | 268 |
|  | 60            | 56               | 72  | 99               | 108 | 124              | 149 | 148              | 195 |
|  | 66            | 51               | 54  | 82               | 81  | 102              | 112 | 122              | 147 |
|  | 72            | 46               | 42  | 69               | 63  | 86               | 86  | 103              | 113 |
|  | 78            | 39               | 33  | 59               | 49  | 73               | 68  | 87               | 89  |
|  | 84            | 34               | 26  | 51               | 39  | 63               | 54  | 75               | 71  |
|  | 90            | 30               | 21  | 44               | 32  | 55               | 44  | 66               | 58  |
|  | 96            | 26               | 18  | 39               | 26  | 48               | 36  | 58               | 48  |
|  | 102           | 23               | 15  | 34               | 22  | 43               | 30  | 51               | 40  |
|  | 108           | 21               | 12  | 31               | 19  | 38               | 26  | 46               | 33  |
|  | 114           | 18               | 11  | 28               | 16  | 34               | 22  | 41               | 28  |
| 120  | 17            | 9                | 25  | 14               | 31  | 19               | 37  | 24               |     |

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