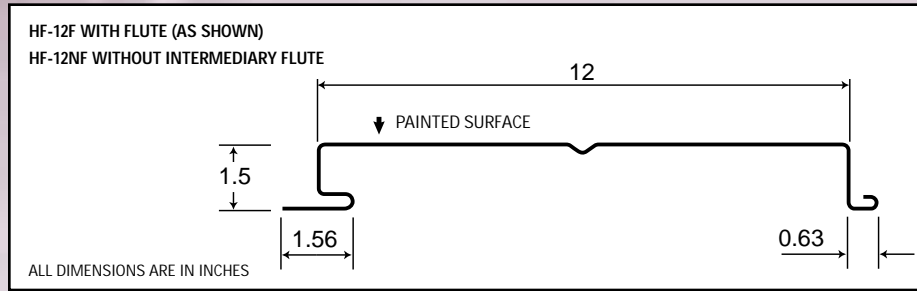


IMPERIAL



Section Properties

(Per Foot of Width)

| Thickness | Gauge | Base (in.) | Weight G90 (lb/ft ²) | Yield Strength (ksi) | Section Modulus | | Deflection Moment of Inertia Mid Span (in. ⁴) | Specified Web Crippling Data (lb) | | | |
|-----------|-------|------------|----------------------------------|----------------------|------------------------------|-----------------------------|-----------------------------------------------------------|-----------------------------------|------|------|------|
| | | | | | Mid Span (in. ³) | Support (in. ³) | | Pe1 | Pe2 | Pi1 | Pi2 |
| 22 | | 0.030 | 1.96 | 33 | 0.090 | 0.132 | 0.082 | 97.5 | 68.2 | 374 | 63.7 |
| 20 | | 0.036 | 2.22 | 33 | 0.120 | 0.158 | 0.106 | 149 | 104 | 550 | 93.6 |
| 18 | | 0.048 | 2.96 | 33 | 0.184 | 0.210 | 0.163 | 288 | 202 | 1006 | 171 |

Load Table

Maximum Specified Uniformly Distributed Load in lb/ft² (psf)

| Support Spacing (ft) | | 1-Span Base Steel Thickness (in.) | | | | | | | | |
|----------------------|---|-----------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| | | 0.030 | | | 0.036 | | | 0.048 | | |
| | | 0.030 | 0.036 | 0.048 | 0.030 | 0.036 | 0.048 | 0.030 | 0.036 | 0.048 |
| 4'0" | B | 74 | 99 | 152 | 109 | 130 | 173 | 116 | 155 | 216 |
| | D | S | S | S | S | S | S | S | S | S |
| 4'6" | B | 59 | 78 | 120 | 86 | 103 | 137 | 92 | 123 | 171 |
| | D | S | S | S | S | S | S | S | S | S |
| 5'0" | B | 48 | 64 | 97 | 70 | 83 | 111 | 74 | 99 | 138 |
| | D | S | S | S | S | S | S | S | S | S |
| 5'6" | B | 39 | 53 | 80 | 58 | 69 | 92 | 62 | 82 | 114 |
| | D | S | S | S | S | S | S | S | S | S |
| 6'0" | B | 33 | 44 | 67 | 48 | 58 | 77 | 52 | 69 | 96 |
| | D | 33 | 43 | 66 | S | S | S | S | S | S |
| 6'6" | B | 28 | 38 | 57 | 41 | 49 | 66 | 44 | 59 | 82 |
| | D | 26 | 34 | 52 | S | S | S | S | S | S |
| 7'0" | B | 24 | 32 | 50 | 36 | 43 | 56 | 38 | 51 | 71 |
| | D | 21 | 27 | 41 | S | S | S | S | S | S |
| 7'6" | B | 21 | 28 | 43 | 31 | 37 | 49 | 33 | 44 | 62 |
| | D | 17 | 22 | 34 | S | S | S | 32 | 41 | S |
| 8'0" | B | — | 25 | 38 | 27 | 33 | 43 | 29 | 39 | 54 |
| | D | — | 18 | 28 | S | S | S | 26 | 34 | 52 |
| 8'6" | B | — | 22 | 34 | 24 | 29 | 38 | 26 | 34 | 48 |
| | D | — | 15 | 23 | S | S | S | 22 | 28 | 44 |
| 9'0" | B | — | 20 | 30 | 22 | 26 | 34 | 23 | 31 | 43 |
| | D | — | 13 | 19 | S | S | S | 18 | 24 | 37 |

Limit States Design

Note:

1. Loads are based on steel conforming to ASTM A653. For minimum yield strength see notes to designer.
2. Section properties are in accordance with CSA-S136-94.
3. Values in row "B" are the maximum specified uniform loads based on strength, which must be equal to or greater than the (specified live load + 0.833 times the specified dead load).
4. Values in row "D" are the maximum specified uniformly distributed loads based on a deflection limit of L/180 of the span. "S" indicates that strength governs.
5. Contact the sales department for stocked colours and gauges.
6. Oil canning may be present due to thickness and coverage. Oil canning is not a valid reason for rejection of this product.
7. The load table contained on this data sheet was prepared by Dr. R.M. Schuster P.Eng. Professor of Structural Engineering, University of Waterloo, Ontario, Canada.

