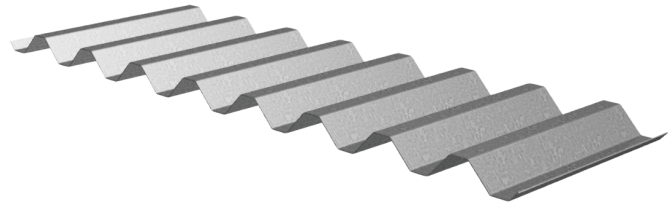
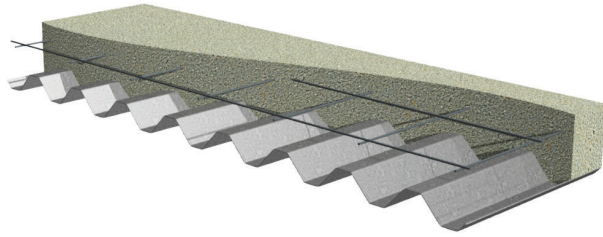
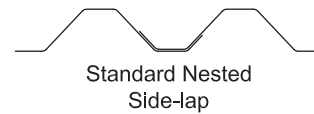
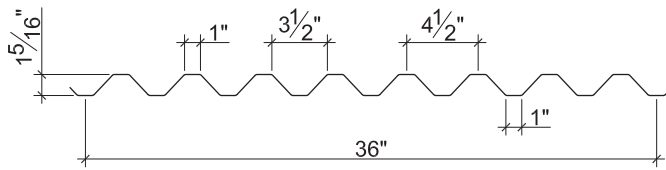


# DEEP VERCOR® (DV) NON-COMPOSITE & ROOF DECK GRADE 80 STEEL

ASD



## Nominal Dimensions



## Section Properties

| Deck Gage | Deck Weight $w_{dd}$ (psf) | Base Metal Thickness $t$ (in.) | Yield Strength $F_y$ (ksi) | Effective Moment of Inertia at Service Load $I_d = (2I_e + I_g)/3$ |                                | Effective Section Modulus at $F_y = 60$ ksi |                                | Vertical Web Shear $V_n/\Omega$ (lb/ft) |
|-----------|----------------------------|--------------------------------|----------------------------|--|--------------------------------|---|--------------------------------|---|
|           |                            |                                |                            | $I_{d+}$ (in <sup>4</sup> /ft)                                     | $I_{d-}$ (in <sup>4</sup> /ft) | $S_{e+}$ (in <sup>3</sup> /ft)              | $S_{e-}$ (in <sup>3</sup> /ft) |   |
| 26        | 1.1                        | 0.0195                         | 60                         | 0.074  | 0.074                          | 0.099                                       | 0.103                          | 1539                                    |
| 24        | 1.4                        | 0.0254                         | 60                         | 0.097  | 0.096                          | 0.137                                       | 0.138                          | 2864                                    |
| 22        | 1.7                        | 0.0314                         | 60                         | 0.120  | 0.120                          | 0.172                                       | 0.171                          | 4369                                    |
| 20        | 2.1                        | 0.0374                         | 60                         | 0.143  | 0.143                          | 0.204                                       | 0.204                          | 5321                                    |

## Allowable Reactions at Supports Based on Web Crippling, $R_n/\Omega$ (lb/ft)

| Deck Gage | Bearing Length of Webs |      |      |      |                  |      |                    |      |      |      |                  |      |
|-----------|------------------------|------|------|------|------------------|------|--------------------|------|------|------|------------------|------|
|           | One-Flange Loading     |      |      |      |                  |      | Two-Flange Loading |      |      |      |                  |      |
|           | End Bearing            |      |      |      | Interior Bearing |      | End Bearing        |      |      |      | Interior Bearing |      |
|           | 1 1/2"                 | 2"   | 3"   | 4"   | 3"               | 4"   | 1 1/2"             | 2"   | 3"   | 4"   | 3"               | 4"   |
| 26        | 445                    | 492  | 571  | 638  | 829              | 916  | 388                | 421  | 477  | 523  | 972              | 1081 |
| 24        | 729                    | 803  | 927  | 1032 | 1366             | 1504 | 706                | 763  | 858  | 938  | 1643             | 1820 |
| 22        | 1078                   | 1184 | 1361 | 1510 | 2029             | 2225 | 1122               | 1207 | 1350 | 1471 | 2478             | 2736 |
| 20        | 1486                   | 1627 | 1863 | 2062 | 2804             | 3066 | 1631               | 1749 | 1948 | 2116 | 3463             | 3813 |

## Standard Features

- ASTM A653 SS GR80 with G90
- Standard lengths – 6'-0" to 40'-0"
- IAPMO UES ER-2018 and UL Listed
- Tables conform to ANSI/SDI NC-2017 and RD-2017

## Optional Features

- Inquire regarding cost and lead times for:
  - Short cuts < 6'-0"
  - Sheet Lengths > 40'-0"
  - Alternative metallic and painted finishes
- Side-lap Venting

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