

# Berridge Deep-Deck Panel Load Chart

## OPEN FRAMING



### Deep Deck Section Properties Based on 24 Gauge 40 K.S.I.

|                       | $I_x$<br>(in <sup>4</sup> /ft) | $M_A$<br>(Inch-kip/ft) | $S_x$<br>(in <sup>3</sup> /ft) |
|-----------------------|--------------------------------|------------------------|--------------------------------|
| Top in Compression    | 0.1073                         | 2.92                   | 0.1218                         |
| Bottom in Compression | 0.1073                         | 2.92                   | 0.1218                         |

NOTES:

- 1) Values based on 2001 edition of AISI.

### Open Framing on 16 ga Steel Support

#### (Galvalume Substrate)

| Gauge of Panel | Detail | Spacing (in) | Fastener   | Fastener Quantity | Allowable (psf) | Ultimate (psf) |
|----------------|--------|--------------|------------|-------------------|-----------------|----------------|
| 24             | A      | 30           | 1/4-14 HWH | 1                 | 182             | 364            |
| 24             | A      | 36           | 1/4-14 HWH | 1                 | 165.60          | 331.20         |
| 24             | A      | 42           | 1/4-14 HWH | 1                 | 149.20          | 298.40         |
| 24             | A      | 48           | 1/4-14 HWH | 1                 | 132.80          | 265.60         |
| 24             | A      | 54           | 1/4-14 HWH | 1                 | 116.40          | 232.80         |
| 24             | A      | 60           | 1/4-14 HWH | 1                 | 100             | 200            |
| 24             | B      | 60           | 1/4-14 HWH | 2                 | 110             | 220            |
| 22             | B      | 60           | 1/4-14 HWH | 2                 | 160             | 320            |

#### (Aluminum Substrate)

| Gauge of Panel | Detail | Spacing (in) | Fastener | Fastener Quantity | Allowable (psf) | Ultimate (psf) |
|----------------|--------|--------------|----------|-------------------|-----------------|----------------|
| 0.032          | B      | 18           | #12-14   | 2                 | 119.65          | 239.30         |

NOTES:

- 1) All test results determined through ASTM E1592 testing standards.
- 2) **All** fasteners to be longlife fasteners with neoprene washers.
- 3) Stitch fasten panels together using (1) 1/4-14X7/8" fastener @ 18" on center.



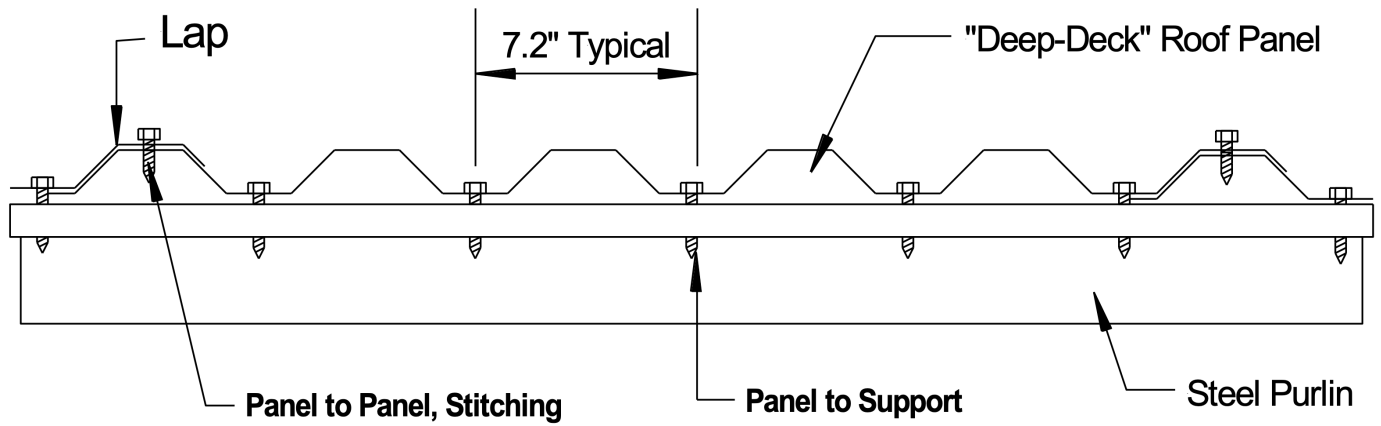
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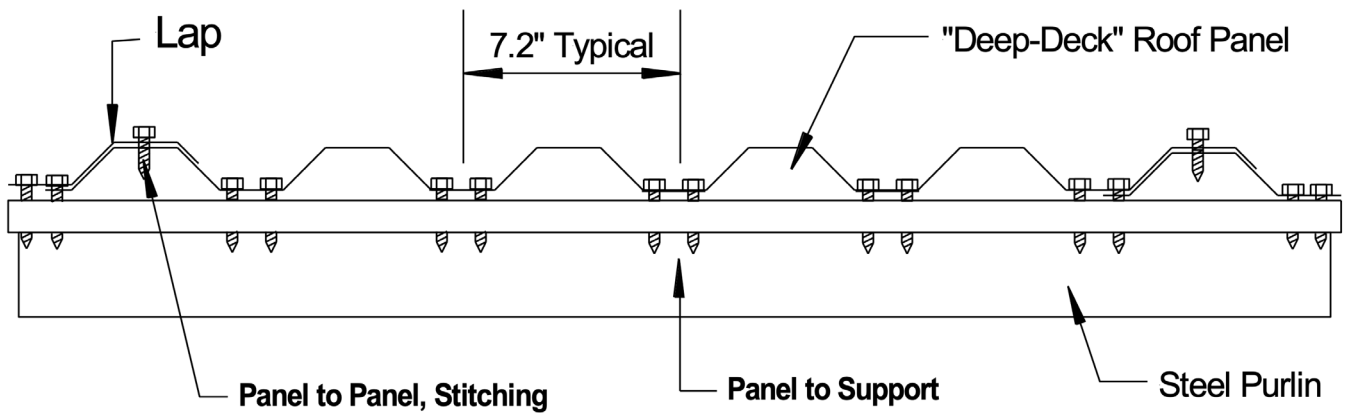
All information subject to change without notice. See website for details, specifications and Watertightness Warranty requirements.

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**Detail A**



**Detail B**



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