1.5B-36/1.5BI-36/1.5PLB-36 ROOF DECKS
GRADE 50 STEEL

1.5B ROOF DECKS
• 1.5B-36 Deck used with Side-lap Screws
• 1.5BI-36 Deck used with TSWs or BPs
• 1.5PLB-36 Deck used with PunchLok® II System

Nominal Dimensions

Section Properties

Effective Moment of Inertia at Service Load
\[ I_d = \frac{(2I_e + I_g)}{3} \]

Effective Section Modulus at \( F_y = 50 \text{ ksi} \)

Allowable Moment

Vertical Web Shear

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

Standard Features
• ASTM A653 SS GR50 Min., with G60 or G90, white or gray primer optional
• ASTM A1008 SS GR50 Min. with gray primer
• Standard lengths – 6'-0” to 42'-0”
• IAPMO UES ER-0652, UL, and FM Listed
• Tables conform to ANSI/SDI RD-2017

Optional Features
• Inquire regarding cost and lead times for:
  - Short cuts < 6'-0”
  - Sheet Lengths > 42'-0”
  - Alternative metallic and painted finishes
• Web Perforated Acoustical Versions

Inquire regarding cost and lead times for:
- Short cuts < 6'-0”
- Sheet Lengths > 42'-0”
- Alternative metallic and painted finishes

• Web Perforated Acoustical Versions
### Inward Uniform Allowable Loads, ASD (psf)

<table>
<thead>
<tr>
<th>Deck Gage</th>
<th>Spans</th>
<th>Criteria</th>
<th>Span (ft-in.)</th>
<th>2'-0&quot;</th>
<th>3'-0&quot;</th>
<th>4'-0&quot;</th>
<th>5'-0&quot;</th>
<th>6'-0&quot;</th>
<th>7'-0&quot;</th>
<th>8'-0&quot;</th>
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<th>10'-0&quot;</th>
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<td>Single</td>
<td>W_n / Ω</td>
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**Notes:**
1. Table does not account for web crippling. Required bearing should be determined based on specific span conditions.
2. The symbol “---” indicates that the uniform allowable load based on deflection exceeds the allowable load based on stress.

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