RedPlank™ LVL
Scaffold Plank

Laminated Veneer Lumber

- **Safe** — proof-load tested at our plant to ensure compliance with RedBuilt quality standards and OSHA deflection limits
- ** Reliable** — made from multiple layers of thin veneer to minimize the natural inconsistencies in wood, like knots.
- **Predictable** — manufactured to provide consistency you can feel.
Welcome to RedBuilt Industrial

Utilizing products that were pioneered by our founders, RedBuilt lifts the Industrial application to a whole new level of service. Backed by our manufacturing technologies and supported by industry-leading technical service and sales support for contractors and engineers, RedBuilt can help you increase productivity, lower costs and work safer.

Reliable Scaffold Planks

Scaffold companies need planks they can rely on—planks that can stand up to every type of stress—including rain, snow, heat, cold, heavy loads and wear from numerous assembly and dismantle cycles. RedPlank™ LVL is the solution: manufactured to be safe and reliable with predictable performance.

• Safe — proof-load tested at our plants to ensure compliance with RedBuilt quality standards and OSHA deflection limits.
• Reliable — made from multiple layers of thin veneer to minimize the natural inconsistencies in wood, like knots.
• Predictable — manufactured to provide consistency you can feel.

Build Safely

We at RedBuilt are committed to working safely and want to remind you to do the same. We encourage you to follow the recommendations of OSHA (www.osha.gov) in the U.S. or provincial regulations (www.canoshweb.org) in Canada regarding:

• Personal protective equipment (PPE) for hands, feet, head and eyes
• Fall protection
• Product performance specification

For additional industrial products and applications, please visit the Industrial page at www.RedBuilt.com.
### USA

#### OSHA Defined Load Conditions

<table>
<thead>
<tr>
<th>Plank Weight (lb/ft)</th>
<th>1½” x 9¼” through 1½” x 9½”</th>
<th>1½” x 11¼”</th>
<th>1½” x 9¼” through 1¼” x 9¼”</th>
<th>1¼” x 9” through 1¾” x 9¾”</th>
<th>1¾” x 11¾”</th>
</tr>
</thead>
<tbody>
<tr>
<td>50 psf</td>
<td>3.9</td>
<td>4.8</td>
<td>5.2</td>
<td>4.6</td>
<td>5.6</td>
</tr>
<tr>
<td>75 psf</td>
<td>9’</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
</tr>
<tr>
<td>1-Person</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
</tr>
<tr>
<td>2-Person</td>
<td>8’</td>
<td>9’</td>
<td>10’</td>
<td>10’</td>
<td>10’</td>
</tr>
<tr>
<td>3-Person</td>
<td>6’</td>
<td>7’</td>
<td>8’</td>
<td>8’</td>
<td>9’</td>
</tr>
</tbody>
</table>

#### 1-Span Dry Use

- Plank Weight: 3.9, 4.8, 5.2, 4.6, 5.6
- 1-Person: 10’
- 2-Person: 8’
- 3-Person: 6’

#### 2-Span Dry Use

- Plank Weight: 3.9, 4.8, 5.2, 4.6, 5.6
- 1-Person: 10’
- 2-Person: 8’
- 3-Person: 6’

### CANADA

#### OSHA Defined Load Conditions

<table>
<thead>
<tr>
<th>Application</th>
<th>Plank Weight (lb/ft)</th>
<th>1½” x 9” through 1½” x 9½”</th>
<th>1½” x 9¼” through 1¼” x 9¼”</th>
<th>1¼” x 9” through 1¾” x 9¾”</th>
<th>1¾” x 11¼”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry Use</td>
<td>50 psf (2.40 kN/m²)</td>
<td>3.9</td>
<td>4.2</td>
<td>4.6</td>
<td>5.6</td>
</tr>
<tr>
<td>Worker and Tools (25 psf + 250 plf) (1.20 kN/m² + 3.63 kN/m)</td>
<td>8’</td>
<td>9’</td>
<td>10’</td>
<td>10’</td>
<td></td>
</tr>
<tr>
<td>Worker and Materials (75 psf + 265 plf) (3.60 kN/m² + 3.88 kN/m)</td>
<td>7’</td>
<td>7’</td>
<td>8’</td>
<td>8’</td>
<td></td>
</tr>
</tbody>
</table>

| Wet Use | 50 psf (2.40 kN/m²) | 3.9 | 4.2 | 4.6 | 5.6 |
| Worker and Tools (25 psf + 250 plf) (1.20 kN/m² + 3.63 kN/m) | 8’ | 8’ | 9’ | 9’ |
| Worker and Materials (75 psf + 265 plf) (3.60 kN/m² + 3.88 kN/m) | 6’ | 7’ | 7’ | 7’ |

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### General Notes

- Load conditions are as defined by OSHA and CSA for intended application.
- Deflection is limited to L/60 for USA and L/80 for Canada.
- The spans shown are for standard frame sizes. For other span conditions, contact RedBuilt Technical Support.
- Always use appropriate length planks for the span condition. Refer to OSHA and CSA for minimum and maximum cantilever requirements.

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### Product Identification

- Laminations provide superior strength and consistency
- Water-resistant adhesives ensure bonding in exterior applications
- Abraded surface for improved traction available by request
- There are many grades of RedLam™ LVL scaffold planks available. Use only scaffold grade for planking.
- Now available with abraded surface.
RedBuilt is committed to providing our customers with scaffold plank that is free of manufacturing defects, and has employed a rigorous quality control system to help ensure the safety of every person using RedPlank™ Scaffold Planks. RedBuilt’s commitment to safe and proper use of RedPlank™ Scaffold Planks must be complimented by your commitment to the same. A critical element to the safety of any scaffold plank is a good visual inspection program, which should outline frequency of inspection, what to look for, and when to remove planks from service.

Planks exhibiting the following forms of damage should be handled as noted below:

<table>
<thead>
<tr>
<th>Action</th>
<th>Type of Damage</th>
</tr>
</thead>
</table>
| Plank should be cut back to remove the defect. | • Drilled holes, saw cuts or notches  
• Discoloration from burns, chemical degradation or decay  
• End splits — Split lengths longer than one-half of the plank width should be cut back. |
| Set plank aside for further evaluation. | • Dents, hammer marks or similar could result in compromised plank strength and should be mechanically evaluated.  
• Narrow-face splits — Use a pocketknife or stiff probe to determine the depth of the split. Planks with splits deeper than ½” into the planks width and longer than 3” should be removed from service. |
| Remove plank from service. | • Face Breaks — Face breaks are difficult to detect when the plank is not loaded. They may best be observed when the plank is under load during a mechanical evaluation program (see pg. 5). Face breaks are a sign that the board’s strength has been compromised.  
• Gouges or depressions are likely caused by falling objects, abuse from forklifts or misuse. These indicators often accompany other damage that may be more difficult to detect.  
• Soft or crumbly wood is likely caused by chemical attack or insect damage. |

This Pocket Handbook Guide has been developed by the Scaffold Industry Association and contains valuable information on inspecting, storing and handling LVL scaffold planks. RedBuilt supplies a complimentary copy of this document to all of our customers. Additional copies are available on request.
Mechanical Evaluation can be an effective supplement to a visual inspection program. RedBuilt recommends that any physical evaluation of scaffold planks be done in a manner that does not cause damage to the planks (i.e. avoid test methods that involve impact loads and/or cause overstress to the plank). The following procedure can be used to determine a plank’s ability to carry the intended design loads (reference Figure 1):

1) Set a clean (free of debris) plank on a frame or known span (L) in the table.

2) Apply a load of about 10 lbs to each end of the plank directly above the supports to settle the plank on the frame.

3) Measure the distance (D₁) from the center of the plank’s span to a known fixed location directly below the plank (could be the ground or a block).

4) Apply a point load (P) from the table at the center of the plank’s span. NOTE: Load should be applied slowly and carefully to avoid impact or overstress.

5) Measure the distance (D₂) from the same location on the plank and reference location as was measured for D₁. The difference between the two measurements (D₁ minus D₂) should be compared against the maximum deflection (Δ). If the deflection exceeds the maximum deflection in the table, it should be removed from service. If moisture is suspected, allow the plank to dry and then retest it.

6) Observe plank under load. Listen for cracking. Look for face breaks on bottom face of board. If either of these are observed, remove the plank from service.

7) Turn plank over and repeat this procedure for other face of plank.

The most effective way to determine a plank’s moisture content is by weight. Simply weigh the plank, and divide its overall weight by the length of the plank to calculate its weight per foot. If a plank weighs more than the weight (w) in the table, it should be set aside to dry. Other means of determining moisture such as electrical-resistance meters may be used. Procedures for doing this should be discussed with both RedBuilt Technical Support and the moisture meter manufacturer, as these devices are not typically calibrated for use with engineered wood products.

<table>
<thead>
<tr>
<th>RedPlank™ LVL Evaluation Data</th>
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</thead>
<tbody>
<tr>
<td>Plank Cross-Section</td>
</tr>
<tr>
<td>1½” x 9¼”</td>
</tr>
<tr>
<td>1½” x 9½”</td>
</tr>
<tr>
<td>1½” x 11¼”</td>
</tr>
<tr>
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</tr>
<tr>
<td>1¾” x 9½”</td>
</tr>
<tr>
<td>1¾” x 11¾”</td>
</tr>
</tbody>
</table>

Figure 1 – Mechanical Evaluation Diagram

These simple practices will help prevent damage to your scaffold plank inventory.

- Do not throw planks from a truck, scaffold or building.
- Do not push bundles of scaffold planks with the tips of a fork.
- Do not overload scaffold planks. (Loads should not exceed those shown above for mechanical evaluation without prior evaluation from a licensed engineer.)
- Do not store heavy materials on scaffold planks for extended periods of time.
- Do not jump on scaffold planks.

- Do not use scaffold planks for other purposes (formwork, shoring, mudsills, wheelbarrow ramps, etc.)
- When preparing scaffold planks for storage, stack them in a way to promote good air circulation and minimize decay. This should include:
  - Allow wet planks to dry prior to covering them with wrap.
  - Use vertically aligned stickers between bundles.
  - Wrap (if used) should not cover bottom.
  - Bundles should be stored elevated, in an area with good drainage.
The RedBuilt name is a tip of the hard hat to Harold “Red” Thomas. In 1958, his keen business sense crossed paths with the creative genius of inventor Art Troutner. When Art showed Red his latest creation, the open web truss, Red recognized its potential immediately. With little more than $8,000, some machinery and an old barn, the two founded a company and revolutionized the commercial building products industry.

In August 2009, Atlas Holdings (www.atlasholdings.com)—a private capital firm working with a group of senior leaders and experienced managers—purchased the commercial division of the company founded by Red and Art.

Today, as RedBuilt, the company now operates four manufacturing plants, plus multiple design centers with sales offices throughout the United States—including our headquarters in Boise, Idaho.
COMPANY FACILITIES

HILLSBORO, OR
Open-web manufacturing, accessory fabrication, Design Center
550 SW Bailey Ave.
Hillsboro, OR 97123
Phone: 503-648-6641
Fax: 503-640-2322

STAYTON, OR
I-joist manufacturing and cut-up, LVL manufacturing, accessory fabrication
2345 W Deschutes Dr.
Stayton, OR 97383
Phone: 503-769-7676
Fax: 503-769-4413

BOISE, ID
Corporate Headquarters, Design Center
200 E Mallard Dr.
Boise, ID 83706
Phone: 208-364-1316
Fax: 208-364-1300

CHINO, CA
Open-web manufacturing, I-joist cut-up, accessory fabrication, Design Center
5088 Edison Ave.
Chino, CA 91710
Phone: 909-465-1215
Fax: 909-627-3627

DELAWARE, OH
Open-web manufacturing, I-joist cut-up, accessory fabrication, Design Center
200 Colomet Dr.
Delaware, OH 43015
Phone: 740-363-1317
Fax: 740-369-1154

RedPlank™ LVL is available in standard lengths and sizes through RedBuilt's reload facilities. Please contact your RedBuilt Industrial Sales Representative for information on product availability.
RedBuilt is committed to creating superior structural solutions. How? By offering efficient structural building products supported by the broadest range of services available:

- RedBuilt representatives and experienced technical staff are located throughout the United States to help with technical information, questions or regulatory compliance.
- At RedBuilt, our goal is to help you build safe and solid structures by providing high-quality products and unparalleled technical and field support.

PRODUCT WARRANTY

RedBuilt™ warrants that its products will be free from manufacturing errors or defects in workmanship and material.

Kurt Liebich, President & CEO

1.866.859.6757

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