Your Single Source for Quality Pallet Rack Storage Systems

Ridg-U-Rak is a world-class manufacturer of quality pallet rack storage systems as well as a wide variety of other systems. Since 1942, Ridg-U-Rak has been a pioneer in the development of innovative pallet rack storage with more than 400,000 square feet of production and warehouse space. As such, we are able to effectively serve as your single source for all your pallet rack storage requirements. For information on how we can help in your pallet rack selection, please call... Toll Free 1-866-479-7225. We’re ready when you are.

Roll Formed Columns and Beams

At the heart of most Ridg-U-Rak structures is our famous roll-formed column design. Each upright is fully welded using heavy-duty bracing and base plates to ensure structural integrity and to eliminate installation delays and costs inherent in bolt-together uprights.

In addition to roll formed sections, we offer structural steel shapes in a virtually unlimited selection of sizes and capacities to meet your requirements.

Ridg-U-Rak offers a wide variety of column and beam profiles in various gages to provide our customers with the most efficient solutions possible. All uprights, beams and support components are engineered to maximum load capacities while minimizing weight to reduce cost.
Leading the Industry in Pallet Rack Storage Systems

Ridg-U-Rak is one of the largest pallet rack storage manufacturers in North America, producing more than 100 million pounds of pallet rack, high density storage rack and specialized rack systems annually. We offer engineering, design, project management and installation services that meet your pallet rack needs on time and on budget.

Our customers include distribution centers, manufacturing facilities, large scale retail and home improvement outlets, industrial warehouses and assembly operations. The Ridg-U-Rak team has the experience to handle projects ranging from small selective systems to large complex projects incorporating a variety of storage solutions. A national network of distributors provide knowledgeable service, and their stocking locations supply a “quick ship” option for standard products.

For over 70 years, Ridg-U-Rak has been a pioneer in developing and improving pallet rack safety, including Column Sentry reinforcements, slant back/offset uprights, beam-to-column locking mechanisms and Seismic Base Isolation technology.

Where to find it...

- **Slotted Rack**
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Slotted Frames

Ridg-U-Rak original slotted pallet rack systems feature automatic lock beam-to-column connections and are available in a virtually unlimited selection of sizes and load capacities. Our six-bend, roll-formed columns with fully welded bracing set the standard for rigidity, strength and durability in pallet rack systems.

Slotted pallet rack is available in a vast array of sizes and load capacities and is extremely versatile. The slotted system features long-lasting powder coated finishes to ensure enduring performance.

Features
- Roll-formed columns 180° return flanges
- 100% welded uprights
- Superior bracing design
- Large base plates
- Offset anchor holes
- 4" vertical adjustability

Frame Capacities

<table>
<thead>
<tr>
<th>Vertical Beam Spacing</th>
<th>32C (3X2-1/4)</th>
<th>33C (3X3)</th>
<th>43C (4X3)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>UF-S32C</td>
<td>UF-R33C</td>
<td>UF-M43C</td>
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<tr>
<td>36&quot;</td>
<td>24,700</td>
<td>39,500</td>
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<tr>
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<td>20,000</td>
</tr>
<tr>
<td>108&quot;</td>
<td>8,000</td>
<td>12,100</td>
<td>17,000</td>
</tr>
</tbody>
</table>

Consult with factory for vertical beam-to-beam spacings greater than 108".
- The Frame Capacity Chart gives allowable loads based on the specified “Unsupported Length” of the columns.
- Values shown are in full compliance with the current RMI Specifications.
- The loads on upright frames accumulate from top to bottom, therefore, the unsupported length and the column load below each beam level should be checked to determine the worst-case scenario.
- The capacities shown in this table are for static load conditions only.
- For other special conditions such as seismic or wind loadings, consult with Ridg-U-Rak sales.
Slotted Beams

Ridg-U-Rak offers many standard beam profiles in virtually any length with capacities to 22,500 lbs. per pair. Beams have a safety factor of 1.67 based on minimum yield of steel. All beam capacities are calculated based on the requirements of the current RMI specification.

All capacities are based on uniformly distributed loads on a pair of beams. Other loading conditions can greatly reduce the carrying capacity of a beam. For unusual loading requirements, call your local Ridg-U-Rak distributor.

### Beam Capacities

<table>
<thead>
<tr>
<th>Beam Profile</th>
<th>Beam Lengths</th>
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<tbody>
<tr>
<td></td>
<td>48&quot;</td>
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<tr>
<td>250 S</td>
<td>5,700</td>
</tr>
<tr>
<td>300 S</td>
<td>7,500</td>
</tr>
<tr>
<td>355 S</td>
<td>9,760*</td>
</tr>
<tr>
<td>410 L</td>
<td>10,810*</td>
</tr>
<tr>
<td>410 S</td>
<td>12,270*</td>
</tr>
<tr>
<td>465 S</td>
<td>15,020*</td>
</tr>
<tr>
<td>500 S</td>
<td>16,890*</td>
</tr>
<tr>
<td>550 S</td>
<td>19,720*</td>
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<tr>
<td>600 S</td>
<td>22,500*</td>
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<tr>
<td>650 S</td>
<td>22,500*</td>
</tr>
<tr>
<td>650 R</td>
<td>22,500*</td>
</tr>
</tbody>
</table>

- Capacities marked with * indicate that the column connection capacity may be limited based on the hook option and/or frame model (see table below).
- Capacities listed are for non-seismic conditions. For seismic conditions consult with Ridg-U-Rak sales or engineering.
- Capacities are based on uniformly distributed loads per pair of beams.
- Capacities listed are for a 2-pallet wide condition.
- All beams over 114" in length should utilize at least one flanged, tek-screwed or lock-in cross bar located at mid-length.

### Beam Profile Dimensions

[Diagram of Beam Profile Dimensions]

### Upright Frame Model

<table>
<thead>
<tr>
<th>Maximum Beam Capacities (per pair)</th>
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<tr>
<td>2-Lug Hook #02</td>
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<tr>
<td>-----------------</td>
</tr>
<tr>
<td>UF-S</td>
</tr>
<tr>
<td>UF-R</td>
</tr>
<tr>
<td>UF-M</td>
</tr>
<tr>
<td>UF-Y</td>
</tr>
<tr>
<td>UF-H</td>
</tr>
</tbody>
</table>

Hook #02 is standard for beams 2.50", 3.00", 3.55", 4.10", 5.00", 5.50", 6.00" tall
Hook #03 is standard for beams 6.50" tall

Slotted Roll-Formed Pallet Rack
Teardrop Frames

Teardrop systems offer easy assembly with 2" vertical beam adjustments. No tools are required. The teardrop beam-to-column connection is designed to be compatible with other widely available teardrop systems.

Features
- Offset anchor holes
- Full array of profiles to optimize the solution
- Two-inch vertical adjustability
- Large base plate
- 6 bend column
- 100% welded uprights
- Large base plates

Frame Capacities

<table>
<thead>
<tr>
<th>Vertical Beam Spacing</th>
<th>31I 3 x 1-5/8</th>
<th>32I 3 x 2-1/4</th>
<th>33I 3 X 3</th>
<th>43I 4 x 3</th>
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<tr>
<td>36&quot;</td>
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<td>23,500</td>
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<td>42&quot;</td>
<td>17,900</td>
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<tr>
<td>48&quot;</td>
<td>16,700</td>
<td>20,600</td>
<td>25,100</td>
<td>29,800</td>
</tr>
<tr>
<td>54&quot;</td>
<td>15,200</td>
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<td>23,100</td>
<td>27,500</td>
</tr>
<tr>
<td>60&quot;</td>
<td>13,800</td>
<td>17,200</td>
<td>21,100</td>
<td>25,000</td>
</tr>
<tr>
<td>72&quot;</td>
<td>10,800</td>
<td>13,700</td>
<td>17,000</td>
<td>20,000</td>
</tr>
<tr>
<td>84&quot;</td>
<td>8,200</td>
<td>10,600</td>
<td>13,200</td>
<td>15,400</td>
</tr>
<tr>
<td>96&quot;</td>
<td>6,500</td>
<td>8,400</td>
<td>10,500</td>
<td>12,200</td>
</tr>
<tr>
<td>108&quot;</td>
<td>5,200</td>
<td>6,800</td>
<td>8,500</td>
<td>9,900</td>
</tr>
</tbody>
</table>

Consult with factory for vertical beam-to-beam spacings greater than 108"

- The Frame Capacity Chart gives allowable loads based on the specified "Unsupported Length" of the columns.
- Values shown are in full compliance with the current RMI Specifications.
- The loads on upright frames accumulate from top to bottom, therefore, the unsupported length and the column load below each beam level should be checked to determine the worst-case scenario.
- The capacities shown in this table are for static load conditions only.
- For other special conditions such as seismic or wind loadings, consult with Ridg-U-Rak sales.
Interchangeable teardrop beams, as with slotted beams, are available in many profiles, in virtually any length, with capacities to 18,000 lbs. per pair. You can tie into many existing systems both old and new. Beams have a safety factor of 1.67 based on minimum yield of steel. All beam capacities are calculated based on the requirements of the current RMI specification.

Our teardrop pallet system provides a robust, patented, automatic lock for improved safety. The Springlock assembly provides positive beam-to-column engagement, improving installation speed and safety.

All capacities are based on uniformly distributed loads on a pair of beams. Other loading conditions can greatly reduce the carrying capacity of a beam. For unusual loading requirements, call your local Ridg-U-Rak distributor.

### Beam Capacities

<table>
<thead>
<tr>
<th>Beam Profile</th>
<th>48”</th>
<th>60”</th>
<th>72”</th>
<th>84”</th>
<th>92”</th>
<th>96”</th>
<th>102”</th>
<th>108”</th>
<th>120”</th>
<th>144”</th>
<th>156”</th>
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</thead>
<tbody>
<tr>
<td>250 S</td>
<td>5,700</td>
<td>4,530</td>
<td>3,130</td>
<td>2,300</td>
<td>1,910</td>
<td>1,750</td>
<td>1,550</td>
<td>1,380</td>
<td>1,120</td>
<td>770</td>
<td>660</td>
</tr>
<tr>
<td>300 S</td>
<td>7,500</td>
<td>5,980</td>
<td>4,820</td>
<td>3,530</td>
<td>2,940</td>
<td>2,690</td>
<td>2,380</td>
<td>2,120</td>
<td>1,720</td>
<td>1,190</td>
<td>1,010</td>
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<tr>
<td>355 S</td>
<td>9,760</td>
<td>7,770</td>
<td>6,460</td>
<td>5,330</td>
<td>4,440</td>
<td>4,070</td>
<td>3,600</td>
<td>3,210</td>
<td>2,590</td>
<td>1,790</td>
<td>1,520</td>
</tr>
<tr>
<td>410 L</td>
<td>10,810</td>
<td>8,620</td>
<td>7,150</td>
<td>6,110</td>
<td>5,570</td>
<td>5,200</td>
<td>4,600</td>
<td>4,100</td>
<td>3,310</td>
<td>2,290</td>
<td>1,940</td>
</tr>
<tr>
<td>410 S</td>
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<td>9,780</td>
<td>8,120</td>
<td>6,930</td>
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<td>5,830</td>
<td>5,160</td>
<td>4,600</td>
<td>3,710</td>
<td>2,570</td>
<td>2,180</td>
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<tr>
<td>465 S</td>
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<td>11,970</td>
<td>9,940</td>
<td>8,490</td>
<td>7,740</td>
<td>7,410</td>
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<td>6,320</td>
<td>5,110</td>
<td>3,530</td>
<td>3,000</td>
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<td>500 S</td>
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<td>12,000</td>
<td>11,170</td>
<td>9,540</td>
<td>8,700</td>
<td>8,330</td>
<td>7,830</td>
<td>7,380</td>
<td>6,140</td>
<td>4,250</td>
<td>3,610</td>
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<td>550 S</td>
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<td>18,000</td>
<td>18,000</td>
<td>11,150</td>
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<td>9,720</td>
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<td>8,620</td>
<td>7,740</td>
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<td>6,790</td>
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<td>18,000</td>
<td>14,660</td>
<td>13,360</td>
<td>12,790</td>
<td>12,020</td>
<td>11,340</td>
<td>10,180</td>
<td>8,360</td>
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</tr>
<tr>
<td>650 R</td>
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<td>18,000</td>
<td>18,000</td>
<td>18,000</td>
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<td>18,000</td>
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</tr>
</tbody>
</table>

- Capacities are based on uniformly distributed loads per pair of beams.
- Capacities listed are for non-seismic conditions. For seismic conditions consult with Ridg-U-Rak sales or engineering.
- Capacities listed are for a 2-pallet wide condition.
- All beams over 114” in length should utilize at least (1) flanged, tek-screwed or lock-in cross bar located at mid length.
- Maximum shelf load for Teardrop Beams using 6” connectors with 2-pins is 12,000# per pair.
- Maximum shelf load for Teardrop Beams using 8” connectors with 3-pins is 18,000# per pair.

### Beam Profile Dimensions
Structural Frames & Beams

Slotted Connections

Upright frames
- Upright frame capacities vary according to vertical beam spacing. See chart.
- Upright columns are hot-rolled structural channel with 50,000 psi minimum yield.
- Upright frames have a safety factor of 1.92 based on minimum yield of steel.
- Slotted beams are vertically adjustable on 4” centers.
- Standard colors:
  Uprights – forest green
  Beams – safety orange
  Other colors available on special order.
- Front column foot protector is optional.
- Heavy duty lower horizontal brace is optional.

Beam length
column center line
determination

Beam capacities - *Slotted Connection*

<table>
<thead>
<tr>
<th>Beam Length</th>
<th>Un-braced Cap/pr</th>
<th>Braced Cap/pr</th>
<th>Un-braced Cap/pr</th>
<th>Braced Cap/pr</th>
<th>Un-braced Cap/pr</th>
<th>Braced Cap/pr</th>
<th>Un-braced Cap/pr</th>
<th>Braced Cap/pr</th>
<th>Un-braced Cap/pr</th>
<th>Braced Cap/pr</th>
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<tbody>
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<td>48”</td>
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<td>11,160</td>
<td>12,290</td>
<td>12,290</td>
<td>18,510</td>
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<td>54”</td>
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<td>10,640</td>
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<td>15,860</td>
<td>16,810</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>72”</td>
<td>6,280</td>
<td>7,210</td>
<td>7,330</td>
<td>7,930</td>
<td>10,550</td>
<td>12,610</td>
<td>18,810</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>84”</td>
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<td>5,830</td>
<td>5,830</td>
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<tr>
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<td>4,860</td>
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<td>9,870</td>
<td>12,330</td>
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<tr>
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<td>1,990</td>
<td>2,630</td>
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<td>1,690</td>
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<td>2,660</td>
<td>3,100</td>
<td>5,730</td>
<td>4,340</td>
<td>10,010</td>
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</tbody>
</table>

Note: Beams must be secured by beam locks against accidental upward forces.
All capacities are per pair of beams based on uniformly distributed loads.
Capacities are based on current RMI specifications.
Structural Frames & Beams

Bolted Connections

Upright frames
- Upright frame capacities vary according to vertical beam spacing. See chart.
- Upright columns are hot-rolled structural channel with 50,000 psi minimum yield.
- Upright frames have a safety factor of 1.92 based on minimum yield of steel.
- Bolted beams are vertically adjustable on 2" centers.
- Standard colors:
  Uprights – forest green
  Beams – safety orange
  Other colors available on special order.
- Front column foot protector is optional.
- Heavy duty lower horizontal brace is optional.

Beam length

Beam capacities - Bolted Connection

<table>
<thead>
<tr>
<th>Beam Length</th>
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<th>341</th>
<th>445</th>
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<td>Braced Cap/pr</td>
<td>Un-braced Cap/pr</td>
<td>Braced Cap/pr</td>
</tr>
<tr>
<td>48&quot;</td>
<td>10,880</td>
<td>11,160</td>
<td>12,290</td>
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<td>54&quot;</td>
<td>9,350</td>
<td>9,920</td>
<td>10,640</td>
</tr>
<tr>
<td>72&quot;</td>
<td>6,280</td>
<td>7,210</td>
<td>7,330</td>
</tr>
<tr>
<td>84&quot;</td>
<td>4,970</td>
<td>5,300</td>
<td>5,830</td>
</tr>
<tr>
<td>92&quot;</td>
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<td>4,460</td>
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<td>3,950</td>
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<td>2,360</td>
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<td>1,810</td>
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<td>1,690</td>
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Frame capacity chart

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<tr>
<th>Vertical Beam Spacing</th>
<th>SBF-335</th>
<th>SBF-341</th>
<th>SBF-445</th>
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<td>36&quot;</td>
<td>34,200</td>
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<td>48&quot;</td>
<td>33,300</td>
<td>39,200</td>
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<tr>
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<td>108&quot;</td>
<td>11,300</td>
<td>12,800</td>
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Note: All capacities are per pair of beams based on uniformly distributed loads. Capacities are based on current RMI specifications.
Frame Options

- Full Depth Base Channel
- Welded Angle Deflector
- Floor Pad Options
- Welded Wrap-Around Deflector
- Single Heavy Duty Bottom Horizontal
- Welded Wrap-Around Deflector Front Anchor
- Double Heavy Duty Bottom Horizontal
- Welded Wrap-Around Deflector Front Anchor & Heavy Horizontal
- Slant-back Frames
- Offset Frames
Beam Options

Bolted Beam Connection

Beam Step Punching
For “Tabbed” and “Drop-in” Cross Bars

Teardrop Beam Connection

2 Pin

3 Pin

Pallet Stops Factory Welded to Beam

Slant-back Frame Option

Frames & Beam Options

11
### Column Sentry II

#### Rack Abuse

Accidental lift truck impact damage is inevitable, but unique Column Sentry II reinforcing keeps it to an absolute minimum.

Ridg-U-Rak’s Column Sentry II reinforcing is a double-thick, double-strength box section that provides exceptional resistance to impact damage of frame columns.

Column Sentry II reinforcing helps guard against rack failure, collapse, and local buckling; and, at the same time, it increases column load carrying strength.

And that’s not all. Column Sentry II reinforcing is compact, thereby, saving critical aisle space. No more space is required than our standard column, and it need be applied only in critical areas such as floor to first beam level on front columns (aisle side).

No other reinforcing method offers the protection, strength, and economy of Column Sentry II.

Column Sentry II reinforcing can be applied cost-effectively where it’s needed most – such as lower leg of front upright column. No need for heavy, inflexible, expensive structural components in areas where damage is unlikely to occur.

Increases Impact Strength by 240%!
Column Sentry II provides maximum protection against lift truck impact damage.

Guillotine Impact Testing best simulates the impact of a lift-truck fork.

Measuring Impact Resistance offers the most accurate assessment of how a column will respond when subjected to “typical abuse” in warehousing environments. Other tests, such as Load Tests, only measure the ability of a column as it relates to capacities.

Upright column strength comparison after equal impact

Laboratory tests were conducted to determine the axial load carrying capability of different column sections after an equal impact load was applied. After impact, each column section was placed in a testing machine where controlled compressive force was applied. The deflection was measured and recorded at increasing load increments and then plotted logically.

*Note: See the Poor Impact Performance of the Tube Columns.*

Resistance to Impact

Adding Ridg-U-Rak’s Column Sentry II reinforcing results in a composite column section that increases column strength by as much as 240%; as well as increasing torsional resistance several hundred times. This results in an upright frame that is extremely resilient, impact resistant, economical and most importantly, provides tremendous residual carrying capacity after an impact occurs!
Accessories

Slotted & Teardrop

Row Spacer
- Square Hole for Tear Drop
- Round Hole for Slotted

Upright Frame

Row-to-wall Spacer
- Square Hole for Tear Drop
- Round Hole for Slotted

Upright Frame

Flanged Crossbar (CBF)

Low Profile
- Tek-Screw

Straight Crossbar (CBN)

Metal Deck

Fork Entry

Skid Rails
- Heavy Duty
- Light Duty

Catwalk Support

Aisle Bridging

Floor Shims

Bolted Load Stops

Bolted Load Stop

Column Guards
- Floor Mounted
- Column Mounted

Manual Locking Devices
- Pinch-pin
- CL-clip
- J-pin

Upright Frame

Column Guards
- Notched Column Guard
- Notched Top Column Guard

Floor Mounted

 Column Mounted
Accessories

Structural

Front-to-back beam tie

Slotted row spacer

Slotted beam lock

Structural channel pallet support

Structural angle pallet support

Reinforced upright column

Slotted beams

Bolted beams

Standard
Standard beam position
(Use part number designation - B)

Alternate
Alternate beam position
(Use part number designation - A)

Roll-formed
Roll-formed beam also available for either connection style.
Quality Manufacturing

Roll Form Manufacturing
State-of-the-Art high volume roll form operation using induction welding process for closed tube beams.

AWS Certified Welders
The quality of the workmanship performed on a rack system directly relates to that rack’s durability and safe usage. Ridg-U-Rak uses AWS certified welders to ensure the manufacturing of reliable products.

State-of-the-Art Powder Coat Paint Systems
Racks built to last require a durable finish. Our powder coated paint finish has superior impact resistance and is applied by our state-of-the-art automated paint line for uniform quality. Additionally, hard-to-access areas are hand sprayed to ensure coverage. Ridg-U-Rak systems resist chips and scratches, providing a long-lasting finish for better appearance and reduced maintenance.

Certified Fabrication
Through an audit and approval process of our quality system, Ridg-U-Rak is a licensed and certified manufacturer in a number of municipalities around the United States.

For more information, please contact us:
120 South Lake Street
North East, PA 16428
Toll Free: 866-479-7225
Phone: 814-725-8751
Fax: 814-725-5659
www.ridgurak.com

Proud member of these organizations:

RIDG-U-RAK is a founding member in good standing of RMI. The Storage Rack covered by this manual is in full compliance with the latest design specification approved by the members of the RACK MANUFACTURERS INSTITUTE. We believe that it is important to you that your supplier be committed to the principles of continuous improvement in both product design/application, and in the highest professional and ethical standards of performance as embodied in the mission and work conducted within RMI.