**LGU / MGU / HGU** Girder Hangers

LGU, MGU, and HGU’s are high capacity girder to girder face mount connectors. Fastens with MiTek’s WS structural wood screws for ease of installation. Fasteners are placed high on connector to permit the connection of a deep carried member to a shallower carrying member. Very useful where tops of beams must be flush.

**Materials:** LGU / MGU – 10 gauge; HGU – 7 gauge

**Finish:** G90 galvanizing

**Options:** See Specialty Options Chart

**Codes:** IBC, FL, LA

**Installation:**
- Use all specified fasteners. See Product Notes, page 18.
- Install with MiTek’s WS structural wood screws supplied with connector.
- Beams comprised of multiple plies must be laminated to act as a single member.
- Multi-ply carrying beams may require additional connection of laminations at connector.
- Beam height dimension (H) must be specified when ordering.

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### Glulam Beam Connectors

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#### Typical LGU, MGU, HGU Installation

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#### Speciality Options Chart

<table>
<thead>
<tr>
<th>Option</th>
<th>MiTek USP Series</th>
<th>Skewed&lt;sup&gt;1,4,5&lt;/sup&gt;</th>
<th>Inverted Flange&lt;sup&gt;2,3&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>LGU, MGU, HGU</td>
<td>1° to 45°</td>
<td>One Inverted Flange option available on some sizes. See footnotes 2 and 3.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>100% of table value</td>
</tr>
<tr>
<td>Allowable Loads</td>
<td>LGU</td>
<td>55% of table value, 30% of uplift.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MGU</td>
<td>65% of table value, 30% of uplift.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HGU</td>
<td>70% of table value, 30% of uplift.</td>
<td></td>
</tr>
<tr>
<td>Ordering</td>
<td>LGU</td>
<td>Add δK, angle required, right (R) or left (L), and bevel cut (B) to product number. Ex. LGU525_H=18_SK45R_BV</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MGU</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HGU</td>
<td>Add IF and right (R) or left (L) to product number. Ex. LGU525_H=18_IFR</td>
<td></td>
</tr>
</tbody>
</table>

1) Skewed hangers, with skew angles greater than 15° may have all joist fasteners removed on outside flange.

2) One inverted-flange (IF) is available on the following sizes: LGU363, LGU525, MGU525, MGU550, MGU562, MGU700, HGU525, HGU550, HGU562, HGU700, HGU725, HGU900

3) The inverted flange option is not available on skewed LGU, MGU or HGU hangers.

4) Bevel cut required on skewed parts to meet table loads.

5) Square cut option may be available as a custom, contact MiTek.

---

### Fastener Schedule<sup>3</sup>

<table>
<thead>
<tr>
<th>Steel Gauge</th>
<th>Width (in)</th>
<th>H&lt;sup&gt;1&lt;/sup&gt; (min)</th>
<th>H1</th>
<th>D</th>
<th>A</th>
<th>Qty</th>
<th>Type</th>
<th>Qty</th>
<th>Type</th>
<th>100% Floor</th>
<th>115% Floor</th>
<th>125% Floor</th>
<th>160% Floor</th>
<th>100% Roof</th>
<th>115% Roof</th>
<th>125% Roof</th>
<th>160% Roof</th>
</tr>
</thead>
<tbody>
<tr>
<td>LGU325</td>
<td>3-1/8</td>
<td>3-5/8</td>
<td>10</td>
<td>5-1/4</td>
<td>4-3/4</td>
<td>24</td>
<td>WS3</td>
<td>16</td>
<td>WS3</td>
<td>7135</td>
<td>7410</td>
<td>7410</td>
<td>7410</td>
<td>7375</td>
<td>7900</td>
<td>7900</td>
<td>7900</td>
</tr>
<tr>
<td>LGU525</td>
<td>3-1/8</td>
<td>3-5/8</td>
<td>10</td>
<td>5-1/4</td>
<td>4-3/4</td>
<td>24</td>
<td>WS3</td>
<td>16</td>
<td>WS3</td>
<td>9515</td>
<td>10940</td>
<td>10940</td>
<td>10940</td>
<td>7375</td>
<td>12060</td>
<td>12060</td>
<td>12060</td>
</tr>
<tr>
<td>MGU525</td>
<td>3-1/8</td>
<td>3-5/8</td>
<td>10</td>
<td>5-1/4</td>
<td>4-3/4</td>
<td>24</td>
<td>WS3</td>
<td>16</td>
<td>WS3</td>
<td>9515</td>
<td>10940</td>
<td>10940</td>
<td>10940</td>
<td>7375</td>
<td>12060</td>
<td>12060</td>
<td>12060</td>
</tr>
<tr>
<td>MGU700</td>
<td>3-1/8</td>
<td>3-5/8</td>
<td>10</td>
<td>5-1/4</td>
<td>4-3/4</td>
<td>24</td>
<td>WS3</td>
<td>16</td>
<td>WS3</td>
<td>9515</td>
<td>10940</td>
<td>10940</td>
<td>10940</td>
<td>7375</td>
<td>12060</td>
<td>12060</td>
<td>12060</td>
</tr>
<tr>
<td>MGU900</td>
<td>3-1/8</td>
<td>3-5/8</td>
<td>10</td>
<td>5-1/4</td>
<td>4-3/4</td>
<td>24</td>
<td>WS3</td>
<td>16</td>
<td>WS3</td>
<td>9515</td>
<td>10940</td>
<td>10940</td>
<td>10940</td>
<td>7375</td>
<td>12060</td>
<td>12060</td>
<td>12060</td>
</tr>
</tbody>
</table>

---

1) Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

2) H denotes minimum hanger height. Specify height when ordering.

3) MiTek’s WS3 structural wood screws are 1/4” dia. x 3” long and are included with hangers. New products or updated product information are designated in blue font.

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Glulam Beam Connectors

## GHF Glulam Face Mount Hangers

An architectural choice for exposed glulam purlin applications. The GHF features heavy load capacity and a multitude of optional designs for unusual applications. Header fasteners are positioned high and joist flange fasteners low for best design with glulam members.

### Materials:
See chart

### Finish:
Primer

### Options:
See Specialty Options Chart on page 234

### Installation:
- Use all specified fasteners. See Product Notes, page 18.
- MiTek’s WS structural wood screws are supplied with GHF hangers.

### Fastener Schedule

<table>
<thead>
<tr>
<th>Dimensions (in)</th>
<th>Header</th>
<th>Joist</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Qty</td>
<td>Type</td>
</tr>
<tr>
<td></td>
<td>W</td>
<td>H</td>
</tr>
</tbody>
</table>

### Allowable Loads (Lbs.)

1. Allowable loads based on seat bearing calculated at 560 psi perpendicular to grain.
2. MiTek’s WS25 (1/4” dia. x 2-1/2” long) and WS3 (1/4” dia. x 3” long) structural wood screws are included with GHF hangers.
3. Uplift loads have been increased 60% for wind or seismic loads; no further increase shall be permitted.

---

**Typical GHF51135 installation**

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**GHF** Glulam Face Mount Hangers

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### Specialty Options Chart
– refer to Specialty Options pages 320-321 for additional details

<table>
<thead>
<tr>
<th>Option</th>
<th>Skewed(^1,3)</th>
<th>Sloped Seat(^2)</th>
<th>Sloped / Skewed(^1,2)</th>
<th>Inverted Flange</th>
</tr>
</thead>
<tbody>
<tr>
<td>Range</td>
<td>1° to 50°</td>
<td>1° to 45°</td>
<td>See Sloped Seat and Skewed</td>
<td>Not available in widths less than 4-1/2”</td>
</tr>
<tr>
<td>Allowable Loads</td>
<td>100% of table load. 75% of uplift load on skews greater than 15°.</td>
<td>100% of table load</td>
<td>80% of table load 75% of uplift load on skews greater than 15°.</td>
<td>100% of table load. 65% of table load when fastening into the support members end grain.</td>
</tr>
<tr>
<td>Ordering</td>
<td>Add SK, angle required, right (R) or left (L), and square cut (SQ) or bevel cut (BV), to product number. Ex. GHF31900_SK45R_BV</td>
<td>Add SL, slope required, and up (U) or down (D), to product number. Ex. GHF31900_SL30D</td>
<td>See Sloped Seat and Skewed. Ex. GHF31900_SK45R_BV_SL30D</td>
<td>Add IF to product number. Ex. GHF51135_IF</td>
</tr>
</tbody>
</table>

1) Skewed hangers with skews greater than 15° may have all joist nailing on outside flange.
2) Sloped or sloped / skewed hangers with slopes greater than 15° may have additional joist nails.
3) Skewed hangers typically require a bevel cut however, a square cut option may be available as a custom when requested.

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**KEGQ** Glulam Beam Hangers

MiTek's WS structural wood screw fastening, heavy steel construction, and a continuous top flange allow the KEGQ products to have high load capacities.

**Materials:** See chart

**Finish:** Primer

**Codes:** IBC, FL, LA

**Installation:**
- Install with MiTek’s WS structural wood screws.
- MiTek’s WS3 structural wood screws, 1/4” dia. x 3” long, are supplied with KEGQ hangers.
- **Minimum header height (H)** is 11-7/8”.
- Beam height dimension (H) must be specified when ordering.

---

<table>
<thead>
<tr>
<th>Joist / Purlin Size</th>
<th>MiTek USP Stock No.</th>
<th>Steel Ga.</th>
<th>Dimensions (in)</th>
<th>Fastener Schedule(^3)</th>
<th>DF/SP Allowable Loads (Lbs.)</th>
<th>S-P-F Allowable Loads (Lbs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ref. No.</td>
<td>Top Flange</td>
<td>U-Strap</td>
<td>W</td>
<td>H^2</td>
<td>D</td>
</tr>
<tr>
<td>3-1/2</td>
<td>KEGQ362</td>
<td>EGQ3.62-SDS3</td>
<td>3</td>
<td>7</td>
<td>3-5/8</td>
<td>specify</td>
</tr>
<tr>
<td>5-1/4</td>
<td>KEGQ550</td>
<td>EGQ5.25-SDS3</td>
<td>3</td>
<td>7</td>
<td>5-1/2</td>
<td>specify</td>
</tr>
<tr>
<td>7</td>
<td>KEGQ725</td>
<td>EGQ7.25-SDS3</td>
<td>3</td>
<td>7</td>
<td>7-1/4</td>
<td>specify</td>
</tr>
</tbody>
</table>

1) Uplift loads have been increased 60% for wind and seismic loads; no further increase shall be permitted.
2) “Specify” denotes the required supported beam height that must be specified at the time of ordering, with 11” being the minimum.
3) MiTek’s WS3 structural wood screws are 1/4” dia. x 3” long and are included with KEGQ hangers.

New products or updated product information are designated in **blue font**.

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