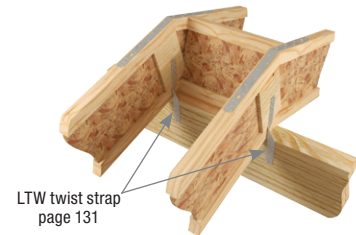


**Materials:** See chart**Finish:** G90 galvanizing**Options:** See chart for Corrosion Finish Options**Codes:** See chart for code references**Installation:**

- Use all specified fasteners. See Product Notes, page 18.
- Designer may specify alternate nailing schedules. Refer to **Nail Specification Table** on page 23 for nail shear values.
- The quantity of nails installed shall be equally distributed to both ends of the strap.
- Unless specified otherwise by the panel manufacturer, straps may be installed over wood structural panels. Use full length nails of specified nail diameter to ensure adequate penetration into the main member is achieved (10 times the diameter minimum).



**Typical LSTA/MSTA  
I-joist on ridge beam  
installation**



**Typical LSTI  
open web truss  
installation**

| MiTek<br>Stock No. <sup>4</sup> | Ref. No. | Steel<br>Gauge | Dimensions (in) |          | Fastener Schedule <sup>5</sup> |                         |             | DF/SP<br>Allowable Tension<br>Loads (Lbs.) <sup>1</sup> | S-P-F/HF<br>Allowable Tension<br>Loads (Lbs.) <sup>1</sup> | Corrosion<br>Finish | Code<br>Ref. |
|---------------------------------|----------|----------------|-----------------|----------|--------------------------------|-------------------------|-------------|---------------------------------------------------------|------------------------------------------------------------|---------------------|--------------|
|                                 |          |                | W               | L        | Total<br>Qty <sup>2</sup>      | Min<br>Qty <sup>3</sup> | Type        |                                                         |                                                            |                     |              |
|                                 |          |                |                 |          |                                |                         |             | 160%                                                    | 160%                                                       |                     |              |
| KST116                          | ST2115   | 20             | 3/4             | 16-5/16  | 10                             | 8                       | 16d         | 665                                                     | 665                                                        |                     |              |
| LSTA9                           | LSTA9    | 20             | 1-1/4           | 9        | 8                              | 8                       | 10d         | 740                                                     | 635                                                        |                     |              |
| LSTA12                          | LSTA12   | 20             | 1-1/4           | 12       | 10                             | 10                      | 10d         | 930                                                     | 790                                                        |                     |              |
| LSTA15                          | LSTA15   | 20             | 1-1/4           | 15       | 12                             | 12                      | 10d         | 1115                                                    | 950                                                        |                     |              |
| LSTA18                          | LSTA18   | 20             | 1-1/4           | 18       | 14                             | 14                      | 10d         | 1235                                                    | 1110                                                       |                     |              |
| LSTA21                          | LSTA21   | 20             | 1-1/4           | 21       | 16                             | 16                      | 10d         | 1235                                                    | 1235                                                       |                     |              |
| LSTA24                          | LSTA24   | 20             | 1-1/4           | 24       | 18                             | 16                      | 10d         | 1235                                                    | 1235                                                       |                     |              |
| KST29                           | ST292    | 20             | 1-3/4           | 9-7/16   | 14                             | 14                      | 16d         | 1545                                                    | 1320                                                       |                     |              |
| KST213                          | ST2122   | 20             | 1-3/4           | 12-11/16 | 18                             | 18                      | 16d         | 1785                                                    | 1700                                                       |                     |              |
| KST216                          | ST2215   | 20             | 1-3/4           | 15-15/16 | 22                             | 18                      | 16d         | 1785                                                    | 1700                                                       |                     |              |
| LSTA30                          | LSTA30   | 18             | 1-1/4           | 30       | 22                             | 22                      | 10d         | 1640                                                    | 1640                                                       |                     |              |
| LSTA36                          | LSTA36   | 18             | 1-1/4           | 36       | 26                             | 22                      | 10d         | 1640                                                    | 1640                                                       |                     |              |
| MSTA9                           | MSTA9    | 18             | 1-1/4           | 9        | 8                              | 8                       | 10d         | 750                                                     | 645                                                        |                     |              |
| MSTA12                          | MSTA12   | 18             | 1-1/4           | 12       | 10                             | 10                      | 10d         | 935                                                     | 810                                                        |                     |              |
| MSTA15                          | MSTA15   | 18             | 1-1/4           | 15       | 12                             | 12                      | 10d         | 1125                                                    | 970                                                        |                     |              |
| MSTA18                          | MSTA18   | 18             | 1-1/4           | 18       | 14                             | 14                      | 10d         | 1310                                                    | 1130                                                       |                     |              |
| MSTA21                          | MSTA21   | 18             | 1-1/4           | 21       | 16                             | 16                      | 10d         | 1500                                                    | 1295                                                       |                     |              |
| MSTA24                          | MSTA24   | 18             | 1-1/4           | 24       | 18                             | 18                      | 10d         | 1640                                                    | 1455                                                       |                     |              |
| LSTI49                          | LSTI49   | 18             | 3-3/4           | 49       | 32                             | 32                      | 10d x 1-1/2 | 2970                                                    | 2560                                                       |                     |              |
| LSTI73                          | LSTI73   | 18             | 3-3/4           | 73       | 48                             | 48                      | 10d x 1-1/2 | 4130                                                    | 3840                                                       |                     |              |
| ST9                             | ST9      | 16             | 1-1/4           | 9        | 8                              | 8                       | 16d         | 895                                                     | 775                                                        |                     |              |
| ST12                            | ST12     | 16             | 1-1/4           | 11-5/8   | 10                             | 10                      | 16d         | 1120                                                    | 970                                                        |                     |              |
| ST18                            | ST18     | 16             | 1-1/4           | 17-3/4   | 14                             | 14                      | 16d         | 1570                                                    | 1355                                                       |                     |              |
| ST22                            | ST22     | 16             | 1-1/4           | 21-5/8   | 18                             | 18                      | 16d         | 1705                                                    | 1705                                                       |                     |              |
| MSTA30                          | MSTA30   | 16             | 1-1/4           | 30       | 22                             | 22                      | 10d         | 2065                                                    | 1815                                                       |                     |              |
| MSTA36                          | MSTA36   | 16             | 1-1/4           | 36       | 26                             | 26                      | 10d         | 2065                                                    | 2065                                                       |                     |              |
| MSTA48                          | MSTA49   | 16             | 1-1/4           | 48       | 32                             | 26                      | 10d         | 2045                                                    | 2045                                                       |                     |              |
| KST218                          | ST6215   | 16             | 1-3/4           | 19-3/16  | 26                             | 26                      | 16d         | 2955                                                    | 2540                                                       |                     |              |
| KST224                          | ST6224   | 16             | 1-3/4           | 22-7/16  | 30                             | 30                      | 16d         | 2960                                                    | 2930                                                       |                     |              |
| HTP37-TZ                        | HTP37Z   | 16             | 3               | 7        | 20                             | 20                      | 10d x 1-1/2 | 1855                                                    | 1600                                                       |                     | --           |
| MSTC28                          | MSTC28   | 16             | 3               | 28-1/4   | 36                             | 36                      | 10d         | 3455                                                    | 2965                                                       |                     |              |
|                                 |          |                |                 |          | 36                             | 34                      | 16d         | 3860                                                    | 3320                                                       |                     |              |
|                                 |          |                |                 |          | 52                             | 52                      | 10d         | 4715                                                    | 4285                                                       |                     |              |
| MSTC40                          | MSTC40   | 16             | 3               | 40-1/4   | 52                             | 46                      | 16d         | 4715                                                    | 4490                                                       |                     |              |
|                                 |          |                |                 |          | 70                             | 60                      | 10d         | 4715                                                    | 4715                                                       |                     |              |
| MSTC52                          | MSTC52   | 16             | 3               | 52-1/4   | 70                             | 52                      | 16d         | 4715                                                    | 4715                                                       |                     |              |
| KST234                          | ST6236   | 14             | 1-3/4           | 32-3/16  | 42                             | 36                      | 16d         | 3775                                                    | 3660                                                       |                     |              |
|                                 |          |                |                 |          | 88                             | 72                      | 10d         | 6015                                                    | 6015                                                       |                     |              |
| MSTC66                          | MSTC66   | 14             | 3               | 65-3/4   | 88                             | 62                      | 16d         | 6015                                                    | 6015                                                       |                     |              |
|                                 |          |                |                 |          | 104                            | 76                      | 10d         | 6015                                                    | 6015                                                       |                     |              |
| MSTC78                          | MSTC78   | 14             | 3               | 77-3/4   | 104                            | 66                      | 16d         | 6015                                                    | 6015                                                       |                     |              |

**Corrosion Finish Key**

■ Stainless Steel ■ Gold Coat  
■ HDG ■ Triple Zinc

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

2) Total number of nail and/or bolt holes provided in the strap.

3) Minimum quantity of fasteners to be installed with equal fasteners at each end of the connection. Product may have additional nail holes not needed to meet published allowable load of product.

4) For MSTC straps: 16d sinker nails may be substituted for 10d nails with no reduction in load.

5) **NAILS:** 10d x 1-1/2 nails are 0.148"dia. x 1-1/2"long, 10d nails are 0.148"dia. x 3"long, 16d nails are 0.162"dia. x 3-1/2"long.

Continued on next page

The LUGT series is an adaptable tiedown for girder trusses and offers several installation options to accommodate different framing conditions. It is an ideal retrofit solution to reinforce truss connections to transfer high wind loads to supporting walls. Sizes available for 1-ply, 2-ply, 3-ply and 4-ply trusses.

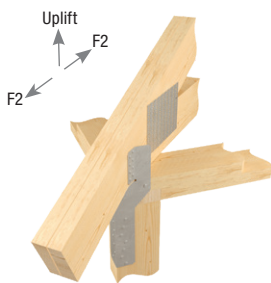
**Materials:** See chart

**Finish:** G90 galvanizing

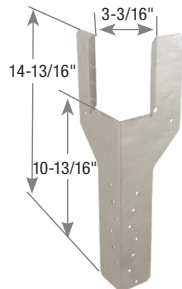
**Codes:** See chart for code references

## Installation:

- Use all specified fasteners. See Product Notes, page 18.
- All fastener holes must be filled with specified fasteners to achieve loads listed in the chart. Large fastener holes are for concrete/masonry installations (reference page 253) and do not need to be filled when used for girder-to-stud applications.
- MiTek's WS structural wood screws are included with LUGT3 and LUGT4.



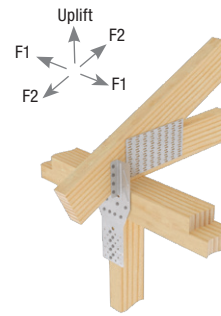
**Typical LUGTC2 corner hip installation**



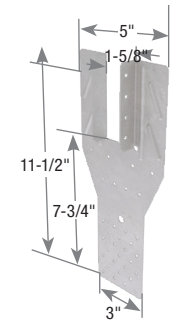
**LUGTC2**



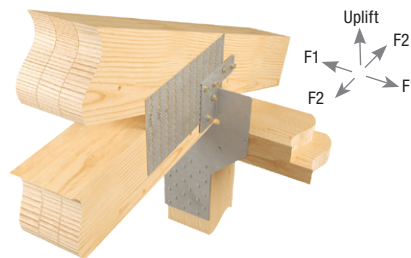
**Typical LUGT1 offset stud installation**  
(See footnote #4)



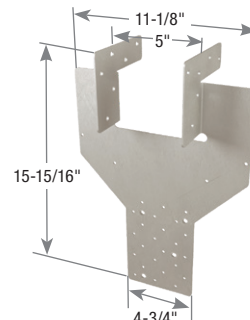
**Typical LUGT1 installation**



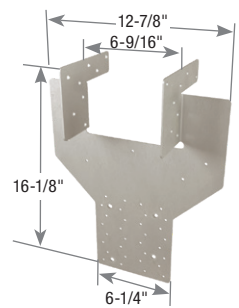
**LUGT1**



**Typical LUGT3 installation**  
(LUGT4 similar)



**LUGT3**



**LUGT4**

| No. of Plies              | MiTek Stock No. | Ref. No.    | Steel Gauge | Fastener Schedule <sup>2,3,7,8</sup> |            |       |            |      |            | DF/SP                               |         |         | S-P-F                               |         |         | Code Ref.   |
|---------------------------|-----------------|-------------|-------------|--------------------------------------|------------|-------|------------|------|------------|-------------------------------------|---------|---------|-------------------------------------|---------|---------|-------------|
|                           |                 |             |             | Rafter/Truss                         |            | Plate |            | Stud |            | Allowable Loads (Lbs.) <sup>1</sup> |         |         | Allowable Loads (Lbs.) <sup>1</sup> |         |         |             |
|                           |                 |             |             | Qty                                  | Type       | Qty   | Type       | Qty  | Type       | Uplift <sup>4</sup> 160%            | F1 160% | F2 160% | Uplift <sup>4</sup> 160%            | F1 160% | F2 160% |             |
| Wood-to-Wood Installation |                 |             |             |                                      |            |       |            |      |            |                                     |         |         |                                     |         |         |             |
| 1                         | LUGT1           | H10S        | 18          | 8                                    | 8d x 1-1/2 | 8     | 8d x 1-1/2 | 7    | 8d x 1-1/2 | 1045                                | 600     | 175     | 920                                 | 470     | 175     | --          |
| 2                         | LUGT2           | LGT2        | 14          | 16                                   | 10d        | 2     | 10d        | 14   | 10d        | 2020                                | 880     | 495     | 1780                                | 685     | 495     | IBC, FL, LA |
|                           | LUGTC2          | --          | 14          | 16                                   | 10d        | 2     | 10d        | 14   | 10d        | 2020                                | --      | 455     | 1780                                | --      | 355     |             |
| 3                         | LUGT3           | LGT3-SDS2.5 | 12          | 12                                   | WS25       | 4     | 16d Sinker | 24   | 16d Sinker | 3500                                | 1980    | 890     | 3080                                | 1575    | 665     | --          |
| 4                         | LUGT4           | LGT4-SDS3   | 12          | 16                                   | WS3        | 5     | 16d Sinker | 32   | 16d Sinker | 4725                                | --      | --      | 4160                                | --      | --      |             |

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

2) Additional anchorage products to be designed by others.

3) For proper installation, the number of studs must be equal-to or greater-than the number of roof truss plies.

4) The LUGT1 can be installed with the stud offset from the rafter a maximum of 1" (center-to-center) for a reduced allowable uplift load of 955-lb (DF/SP) and 840-lb (S-P-F).

5) Fasteners must be installed in fully grouted and reinforced concrete masonry ( $f'm = 1,500$  psi) or reinforced concrete ( $f'c = 2,500$  psi).

6) Use DeWalt Screw-Bolt™+ 1/4" dia. x 3" or 3/8" dia. x 5" screw anchors; or equal, installed in accordance with manufacturer's specification.

7) MiTek's WS25 structural wood screws are 1/4" dia. x 2-1/2" long (supplied with LUGT3) and WS3 structural wood screws are 1/4" dia. x 3" long (supplied with LUGT4).

8) **NAILS:** 8d x 1-1/2 are 0.131" dia. x 1-1/2" long, 10d nails are 0.148" dia. x 3" long, 16d Sinkers are 0.148" dia. x 3-1/4" long,