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Description:  
 Hanger with Blocking  
 \_\_\_\_\_  
 \_\_\_\_\_  
 DRAWING NOT TO SCALE

Rev #: \_\_\_\_\_ - \_\_\_\_\_  
 Rev Date: \_\_\_\_\_ - \_\_\_\_\_  
 Drawn By: \_\_\_\_\_ - \_\_\_\_\_  
 Checked By: \_\_\_\_\_ - \_\_\_\_\_

Dwg #: 09-020  
 Dwg Date: 05/06/2009  
 Drawn By: AWN  
 Checked By: JAM

# TEK Screw Table - Steel to LSB

## Allowable Loads per Screw (lbs)

| Tension |        |          | Thickness of Attachment |     |    |     |     |     |    |
|---------|--------|----------|-------------------------|-----|----|-----|-----|-----|----|
|         |        |          | 134                     | 118 | 98 | 79  | 59  | 45  | 35 |
|         | Design | Minimum  | 127                     | 112 | 93 | 75  | 56  | 43  | 33 |
|         |        | Gage     | 10                      | 11  | 12 | 14  | 16  | 18  | 20 |
| Screw   |        | LSB Gage |                         |     |    |     |     |     |    |
|         | 1/4    | -134     | 615                     |     |    |     | 505 | 395 |    |
|         |        | -118     | 540                     |     |    |     |     |     |    |
|         |        | -098     | 450                     |     |    |     |     |     |    |
|         |        | -079     | 365                     |     |    |     |     |     |    |
|         |        | -059     | 270                     |     |    |     |     |     |    |
|         | #12    | -134     | 515                     |     |    | 380 | 295 |     |    |
|         |        | -118     | 455                     |     |    |     |     |     |    |
|         |        | -098     | 380                     |     |    |     |     |     |    |
|         |        | -079     | 305                     |     |    |     |     |     |    |
|         |        | -059     | 225                     |     |    |     |     |     |    |
|         | #10    | -134     | 470                     |     |    | 380 | 295 |     |    |
|         |        | -118     | 410                     |     |    |     |     |     |    |
|         |        | -098     | 340                     |     |    |     |     |     |    |
|         |        | -079     | 275                     |     |    |     |     |     |    |
|         |        | -059     | 205                     |     |    |     |     |     |    |

| Shear |        |          | Thickness of Attachment |     |    |    |     |     |    |
|-------|--------|----------|-------------------------|-----|----|----|-----|-----|----|
|       |        |          | 134                     | 118 | 98 | 79 | 59  | 45  | 35 |
|       | Design | Minimum  | 127                     | 112 | 93 | 75 | 56  | 43  | 33 |
|       |        | Gage     | 10                      | 11  | 12 | 14 | 16  | 18  | 20 |
| Screw |        | LSB Gage |                         |     |    |    |     |     |    |
|       | 1/4    | -134     | 860                     |     |    |    | 455 | 355 |    |
|       |        | -118     |                         |     |    |    |     |     |    |
|       |        | -098     |                         |     |    |    |     |     |    |
|       |        | -079     |                         |     |    |    |     |     |    |
|       |        | -059     | 650                     |     |    |    |     |     |    |
|       | #12    | -134     | 665                     |     |    |    | 380 | 300 |    |
|       |        | -118     |                         |     |    |    |     |     |    |
|       |        | -098     |                         |     |    |    |     |     |    |
|       |        | -079     |                         |     |    |    |     |     |    |
|       |        | -059     | 600                     |     |    |    |     |     |    |
|       | #10    | -134     | 465                     |     |    |    | 345 | 270 |    |
|       |        | -118     |                         |     |    |    |     |     |    |
|       |        | -098     |                         |     |    |    |     |     |    |
|       |        | -079     |                         |     |    |    |     |     |    |
|       |        | -059     |                         |     |    |    |     |     |    |

**NOTES:**

1. The maximum load is not to exceed the capacity of the LSB, attachment, or screws.
2. Allowable load values shown are the minimum values based on 2007 AISI NAS for both the connector and the connected material using Buildex TEK screws. Buildex TEK ultimate values can be found in the ITW Buildex 2009 Product Catalog.
3. Values for LSB and hangers 16 ga and thicker are based on members with a minimum yield strength of  $F_y = 50\text{ksi}$  and tensile strength of  $F_u = 65\text{ksi}$ . For hangers or attachments with thickness of 18 ga and thinner values are based on members with a minimum yield strength of  $F_y = 33\text{ksi}$  and tensile strength  $F_u = 45\text{ksi}$ .
4. A minimum of three threads must penetrate each member.

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Description:

Screw Chart - Steel to LSB

DRAWING NOT TO SCALE

Rev #: \_\_\_\_\_ - \_\_\_\_\_

Rev Date: \_\_\_\_\_ - \_\_\_\_\_

Drawn By: \_\_\_\_\_ - \_\_\_\_\_

Checked By: \_\_\_\_\_ - \_\_\_\_\_

Dwg #: ATTCH.-1

Dwg Date: 09/16/2009

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