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Section 1: Introduction

This manual explains the installation of Daktronics outdoor decorative accents. This manual is not specific to a particular installation.

**IMPORTANT SAFEGUARDS**

- Read and understand all instructions before beginning the installation process.
- Do not modify the structure or attach any panels or coverings to the display without the express written consent of Daktronics.

1.1 Resources

**Figure 1** illustrates a Daktronics drawing label. This manual refers to drawings by listing the last set of digits and the letter preceding them. In the example, the drawing would be referred to as **Drawing D-1007804**. All references to drawing numbers, appendices, figures, or other manuals are presented in bold typeface. Any drawings referenced in a particular section are listed at the beginning of it as shown below:

**Reference Drawing:**

- System Riser Diagram ................................................................. **Drawing D-1007804**

Daktronics identifies manuals by the DD or ED number located on the cover page. For example, this manual would be referred to as **ED-16076**.

Project-specific information takes precedence over any other general information found in this manual. Such information may include:

- **Shop Drawings**: describe mounting methods to structural elements, access method (front or rear), and power and signal entrance points
- **Final Assembly Drawings**: describe internal display component locations and detailed product appearance with part numbers and quantities

Ensure all applicable material has been gathered before beginning the installation. Contact a Daktronics sales coordinator or project manager.
Section 2: Installation

2.1 Pole Locations

Reference Drawings:

Pole Locations; Decorative Trusses........................................................................................................... Drawing B-1122070

Drawing B-1122070 in Appendix A shows the recommended number of beams and spacing between them for the various lengths of square and arch truss. While beam placement will be determined by the dimensions of the overall scoring display, these drawings show where to expect mounting hardware will typically be attached (so beams may be partially hidden by the vertical truss, for example).

Note: Refer to any site-specific diagrams for proper placement and mounting method of display pieces.

Any column and footing size dimensions are to assist with estimating installation costs; they are estimates only and are not intended for actual construction purposes. Be sure that the installation complies with local building codes and is suitable for the particular soil and wind conditions. The columns, footings, and all connection details must be designed and certified by a professional engineer licensed to practice in the state of the installation.

Note: Daktronics does not assume any liability for any installation derived from the information provided in this manual or installations designed and installed by others.

Drain Holes

Take care during the installation process to ensure the drain holes in the accent pieces are not covered by the mounting structure. If they are covered, 3/8" holes must be drilled through the mounting structure in the same spot as the original holes.

2.2 Lifting

Decorative accents are shipped equipped with 1/2" shoulder-type eyebolts to lift them. The eyebolts are located along the top of the accents. On domed accents, the eyebolts are located on rear cabinets, not the dome itself.

Daktronics strongly recommends using a spreader bar, or lifting bar, to lift the accent. Spreader bars ensure the force on the eyebolts remains straight up, minimizing lifting stress.

Figure 2: Lifting Methods

Figure 2 illustrates the preferred lifting method on the left and an acceptable alternative lifting method on the right. When lifting:

- Use a spreader bar if possible.
- Use every lifting point provided.
Avoid using other lifting methods. Cables and chains attached to the eyebolts and directly to a center lifting point, as shown in the right example in Figure 2, create a dangerous lateral force on the eyebolts and may cause the eyebolts to fail. The smaller the angle between the cable and the top of the accent, the lighter the accent must be to safely lift it. If this method must be used, ensure a minimum angle between the chain and accent of at least 45°.

Do NOT attempt to lift the accent if the angle is less than 45°. Exceeding load angles or weight limits could cause the bolts in the cabinet to buckle, resulting in serious damage to property or injury to personnel. Also, loads should be applied directly in the plane of the eyebolt as shown in Figure 3.

Note: Daktronics assumes no liability for damages resulting from incorrect setup or lifting methods. Eyebolts are intended for lifting only. Do not attempt to permanently support the accent by the eyebolts.

2.3 Square & Arch Truss Mounting

Two standard mounting methods are available for Daktronics square and arch truss decorative accents.

Note: Do not use lubrication on any mounting hardware or the warranty will be void!

I-Beam Clamps

Reference Drawings:

Truss I-Beam Clamp Mounting .............................................................................................................. Drawing A-1111650

Mounting hardware includes mounting channels; unistruts; spring nuts; I-beam clamps; 1/2-13 x 3” bolts, flat washers, and lock washers; and 3/8-16 x 1” bolts, flat washers, lock washers, and nuts. Refer to Figure 4 and Drawing A-1111650 in Appendix A.

Note: I-beams must have a flange thickness of 1/4” – 3/4”. If flange thickness is greater than 3/4”, longer bolts will be required at added expense.

1. Position the accent at the front of the beams, and lift it to the desired height.

2. Use the self-drilling screws to attach a mounting channel to the top rear of the accent. The mounting channel should be as close to center on the beams as possible.

3. Attach the piece of unistrut to the mounting channel with the included 3/8” hardware, as shown in Figure 4.

4. Place spring nuts into the unistrut. Twist the spring nuts until they are perpendicular to the unistrut channel (refer to Figure 5).

Note: Accents require four spring nuts per beam (two at the top and two at the bottom).
5. Slide a lock washer, flat washer, and I-beam clamp onto each bolt, and loosely screw the bolts into the spring nuts.

6. Position each I-beam clamp assembly as close to the I-beam flanges as possible.

7. Make final adjustments in the positioning of the accent to ensure it is flush and level, and firmly tighten all of the bolts (Figure 6).

8. Repeat steps 2–7 for the other mounting hardware set on the bottom rear of the accent.

9. Repeat step 8 for all beams.

10. Remove the lift eyebolts and fill remaining holes with silicone.
**Clamping Angles**

**Reference Drawings:**
- Mtg Attachment: DA-1001 Series ................................................................. **Drawing A-251223**
- Mtg Attachment: DA-1000 Series ................................................................. **Drawing A-997378**

Mounting hardware includes mounting channels, clamping angles, self-drilling screws, 1/2-13 x 24” threaded rods, 1/2” nuts, and 1/2” lock washers. Refer to Figure 7 as well as Drawing A-251223 for arch truss and Drawing A-997378 for square truss.

**Note:** The threaded rods do not pass through the beams; they run along both sides.

1. Position the accent at the front of the beams, and lift it to the desired height.
2. Use the self-drilling screws to attach a mounting channel to the top rear of the accent. The mounting channel should be as close to center on the beams as possible.
3. Insert the threaded rods into the holes on the mounting channel, one on either side of the beam. Ensure the rods are in the holes closest to the sides of the beam.
4. Screw square nuts on the ends of the threaded rods inside the mounting channel.
5. Slide clamping angles over the other ends of the threaded rods and loosely install the washers and nuts.
6. Make final adjustments in the positioning of the accent to ensure it is flush and level, and firmly tighten all of the 1/2” hex nuts.
7. Repeat steps 2–6 for the other mounting hardware set on the bottom rear of the accent.
8. Repeat step 7 for all beams.
9. Remove the lift eyebolts and fill remaining holes with silicone.

![Figure 7: Accent Mounting with Clamping Angles, Side View](image)

**Truss with Clocks**

To install clocks to the truss, refer to the Analog Clock Installation & Maintenance Manual (ED-16102), provided with the clock assembly.
2.4 Dome Mounting

Two standard mounting methods are available for Daktronics dome decorative accents.

**Note:** Do not use lubrication on any mounting hardware or the warranty will be void!

### I-Beam Clamps

**Reference Drawings:**

- Double Pole Mounting; Dome Outdoor Non-Backlit .......................................................... Drawing B-303997
- Odd Number Pole Mounting; Dome OD Non-Bklt............................................................... Drawing B-369907
- Two Pole Mounting; DA-1205 Domes............................................................................... Drawing B-1080123
- Three Pole Mounting; DA-1205 Domes............................................................................ Drawing B-1080180

Mounting hardware includes C-channels; unistrut; spring nuts; I-beam clamps; 1/2-13 x 3" bolts, flat washers, and lock washers; and 3/8-16 x 1" bolts, flat washers, lock washers, and nuts. Refer to **Figure 8** and one of the following drawings from **Appendix A**:

<table>
<thead>
<tr>
<th>Even # of Poles</th>
<th>Odd # of Poles</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Partial Dome</strong></td>
<td>Drawing B-303997</td>
</tr>
<tr>
<td><strong>Full Dome</strong></td>
<td>Drawing B-369907</td>
</tr>
<tr>
<td><strong>Drawing B-1080123</strong></td>
<td>Drawing B-1080180</td>
</tr>
</tbody>
</table>

**Note:** I-beams must have a flange thickness of 1/4" – 3/4". If flange thickness is greater than 3/4", longer bolts will be required at added expense.

1. **Position the accent at the front of the beams, and lift it to the desired height.**

2. **Using the C-channel as a template, drill four 7/16" holes in the upper rear flange of the accent cabinet where the beams will be located.**
   
   **Note:** Try to ensure that the two center holes will be within the width of the beam.

3. **Attach the piece of unistrut to the accent cabinet with the included 3/8" hardware, as shown in Figure 8.**

4. **Place spring nuts into the unistrut. Twist the spring nuts until they are perpendicular to the unistrut channel (refer to Figure 5).**
   
   **Note:** Accents require four spring nuts per beam (two at the top and two at the bottom).

5. **Slide a lock washer, flat washer, and I-beam clamp onto each bolt, and loosely screw the bolts into the spring nuts.**

6. **Position each I-beam clamp assembly as close to the I-beam flanges as possible.**

*(Continued on next page)*
7. Make final adjustments in the positioning of the accent to ensure it is flush and level, and firmly tighten all of the bolts (Figure 9).

![Diagram](image)

**Figure 9: Dome Accent Mounting with I-beam Clamps, Rear Isometric View**

8. Repeat steps 2–7 for the other mounting hardware set on the bottom rear of the accent.

9. Repeat step 8 for all beams.

10. Remove the lift eyebolts and fill remaining holes with silicone.

**Clamping Angles**

**Reference Drawings:**

- Ad Panel Mounting: Drawing B-52187

Mounting hardware includes C-channels; rear clamping angles; 1/2-13 x 15” threaded rods; and 1/2” nuts and lock washers. Refer to Figure 10 and Drawing A-52187 in Appendix A.

**Note:** The threaded rods do not pass through the beams; they run along both sides.

1. Position the accent at the front of the beams, and lift it to the desired height.

2. Using a clamping angle as a template, drill 9/16” holes in the upper rear flange of the accent cabinet where the C-channel support will be placed.

3. Position a C-channel inside the accent cabinet along the rear flange as shown in Figure 10.

4. Place 1/2” square nuts inside the C-channel, and thread the rods through the rear flange of the accent cabinet and the C-channel.

5. Slide clamping angles over the other ends of the threaded rods and loosely install the washers and nuts.

6. Make final adjustments in the positioning of the accent to ensure it is flush and level, and firmly tighten all of the 1/2” hex nuts.

7. Repeat steps 2–6 for the other mounting hardware set on the bottom rear flange of the accent cabinet.

8. Repeat step 7 for all beams.

9. Remove the lift eyebolts and fill remaining holes with silicone.
Domes with Ad Panels

Reference Drawings:
- Semicircle to Ad Panel Assy. ................................................................. Drawing A-93857
- Odd Number Pole Mounting; Dome OD Non-Bklt........................................... Drawing B-369907

Domes are most often used together with an ad panel beneath them. Riveting the two pieces together will prevent the dome from twisting in strong winds. Sometimes this will be performed in the factory, while other times it may need to be done in the field. This would typically be required when there is a single pole behind a partial dome (as shown in Drawing A-369907). In these cases, follow Drawing A-93857 for riveting instructions.
## Appendix A: Reference Drawings

Refer to **Section 1.1** for information regarding how to read the drawing number. These drawings are listed in alphanumeric order. Any contract-specific drawings take precedence over these general drawings.

<table>
<thead>
<tr>
<th>Drawing Title</th>
<th>Drawing Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ad Panel Mounting</td>
<td>B-52187</td>
</tr>
<tr>
<td>Semicircle to Ad Panel Assy</td>
<td>A-93857</td>
</tr>
<tr>
<td>Mtg Attachment: DA-1001 Series</td>
<td>A-251223</td>
</tr>
<tr>
<td>Double Pole Mounting- Dome Outdoor Non-Backlit</td>
<td>B-303997</td>
</tr>
<tr>
<td>Odd Number Pole Mounting; Dome OD Non-Bklt</td>
<td>B-369907</td>
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<tr>
<td>Mtg Attachment: DA-1000 Series</td>
<td>A-997378</td>
</tr>
<tr>
<td>Two Pole Mounting; DA-1205 Domes</td>
<td>B-1080123</td>
</tr>
<tr>
<td>Three Pole Mounting; DA-1205 Domes</td>
<td>B-1080180</td>
</tr>
<tr>
<td>Truss I-Beam Clamp Mounting</td>
<td>B-1111650</td>
</tr>
<tr>
<td>Pole Locations; Decorative Trusses</td>
<td>B-1122070</td>
</tr>
</tbody>
</table>
MOUNTING HARDWARE MUST BE USED AT ALL AD PANEL SPACES
WHEN AD PANEL IS MADE UP OF MULTIPLE SECTIONS

MOUNTING INSTRUCTIONS:
1. USE THE MOUNTING CHANNEL TO DETERMINE WHICH HOLE COMBINATION SHOULD BE USED.
   BE SURE TO KEEP THE NUTS AS CLOSE TO THE BEAM AS POSSIBLE.
2. USING THE MOUNTING CHANNEL AS A TEMPLATE, DRILL 9/32" HOLES IN THE UPPER AND LOWER
   REAR FLANGE OF AD PANEL WHERE THE SUPPORTS WILL GO.
3. PLACE SQUARE NUTS INSIDE CHANNEL AND THREAD BOLTS THROUGH.
4. LIFT AD PANEL INTO POSITION WITH BOLTS STILL IN PLACE.
5. PLACE MOUNTING ANGLES OVER EACH PAIR OF BOLTS AND SECURE WITH LOCK WASHERS AND HEX NUTS.
6. WHEN PANEL IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN HEX NUTS FINALLY.

MOUNTING INSTRUCTIONS: FOR AD PANELS WITH BACKSHEETS.
1. USE THE MOUNTING CHANNEL TO DETERMINE WHICH HOLE COMBINATION SHOULD BE USED.
   BE SURE TO KEEP THE NUTS AS CLOSE TO THE BEAM AS POSSIBLE.
2. USING THE MOUNTING CHANNEL AS A TEMPLATE, DRILL 9/32" HOLES IN THE UPPER AND LOWER
   REAR FLANGE OF AD PANEL WHERE THE SUPPORTS WILL GO.
3. REMOVE BACKSHEETS IN AREAS ABOVE AND BELOW HOLES DRILLED IN STEP 2.
4. PLACE SQUARE NUTS INSIDE CHANNEL AND THREAD BOLTS THROUGH.
5. REPLACE BACKSHEETS REMOVED IN STEP 3.
6. LIFT AD PANEL INTO POSITION WITH BOLTS STILL IN PLACE.
7. PLACE MOUNTING ANGLES OVER EACH PAIR OF BOLTS AND SECURE WITH LOCK WASHERS AND HEX NUTS.
8. WHEN PANEL IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN HEX NUTS FINALLY.
NOTE:
SOME HOLES MAY HAVE TO BE DRILLED FOR ASSEMBLY.

<table>
<thead>
<tr>
<th>PACKET NUMBER</th>
<th>DIMENSION (1)</th>
</tr>
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<tr>
<td>OA-1091-0315...DA-1203</td>
<td>48.00&quot;</td>
</tr>
<tr>
<td>OA-1091-0317...DA-1201</td>
<td>39.00&quot;</td>
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<tr>
<td>OA-1091-0493...DA-1204</td>
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</tr>
<tr>
<td>OA-1091-1463...DA-1200</td>
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<tr>
<td>OA-1091-1474...DA-1202</td>
<td>53.065&quot;</td>
</tr>
<tr>
<td>OA-1091-1611...DA-1207</td>
<td>30.00&quot;</td>
</tr>
</tbody>
</table>
ISOMETRIC VIEW
TYPICAL CLAMP MOUNT PER POLE

NOTES:

-ATTACH MOUNTING CHANNEL (OM-249674) TO TRUSSWORK USING HC-1377 TEK SCREWS.
-CHANNELS ARE TO BE CENTERED AT VERTICAL BEAM LOCATIONS.

0A-1348-0001... MTG HDWE; TRUSSWORK, 1-POLE
***CRITICAL***
DO NOT USE ANY LUBRICANT ON ANY MOUNTING HARDWARE OR WARRANTY WILL BE VOIDED

HORIZONTAL AND VERTICAL MEMBERS PER SITE CONDITIONS AND/OR STRUCTURAL ENGINEER. DESIGNED AND PROVIDED BY CUSTOMER.

FRONT ENDS OF HORIZONTAL STRINGERS ARE TO BE NOTCHED SO THAT IT SITS FLUSH WITH THE MAIN VERTICAL BEAMS.

TYP. 3 SIDES
3/16" UNISTRUT
ROCKER CLAMP
BACK-UP CHANNEL WITH SQUARE NUT

VERTICAL 4W4X13 BEAM
BOLT
SPLIT WASHER

6,000 MIN DISTANCE

SECTION: A-A
SIDE VIEW

VERTICAL 4W4X13 BEAM
HORIZONTAL STRINGER
MAIN VERTICAL BEAM

TYP ALL AROUND
3/16" HORIZONTAL STRINGERS NOTCHED SO THAT THEY SIT FLUSH WITH FRONT OF MAIN VERTICAL BEAMS

SPACING BETWEEN POLES PER SITE CONDITIONS AND/OR STRUCTURAL ENGINEER.

REAR VIEW

GRAPHICAL REPRESENTATION OF THE POLE MOUNT HARDWARE.

STRINGER CUT TO FIT ONSITE WELD ALL AROUND EACH END TO WEB OF WF

TOP VIEW

DOME TYPE: DOME SIZE: DIMENSION (1) DIMENSION (2)
DA-1200 18.0" X 96.0" 12.00" 37.00"
DA-1201 24.0" X 78.0" 16.00" 30.00"
DA-1202 32.0" X 106.13" 20.00" 51.00"
DA-1203 48.0" X 96.0" 32.00" 53.00"
DA-1204 36.0" X 65.73" 24.00" 30.00"
DA-1207 24.0" X 60.0" 16.00" 21.00"
**CITRAL:****

DO NOT USE ANY LUBRICANT ON ANY MOUNTING HARDWARE OR WARRANTY WILL BE VOIDED

**GRAPHICAL REPRESENTATION OF THE POLE MOUNT HARDWARE:**

- **BACK-UP CHANNEL WITH SQUARE NUT**
- **ROCKER CLAMP**
- **BOLT**
- **SPLIT WASHER**

**DETAIL A**

- SCALE X 3

**DETAIL B**

- SCALE X 3

**SECTION: A-A**

**REAR VIEW**

---

**TABLE:**

<table>
<thead>
<tr>
<th>DOME TYPE</th>
<th>DOME SIZE</th>
<th>DIMENSION (1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DA-1200</td>
<td>18.0&quot; X 96.0&quot;</td>
<td>12.00&quot;</td>
</tr>
<tr>
<td>DA-1201</td>
<td>24.0&quot; X 78.0&quot;</td>
<td>16.00&quot;</td>
</tr>
<tr>
<td>DA-1202</td>
<td>32.0&quot; X 106.15&quot;</td>
<td>20.00&quot;</td>
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<td>DA-1203</td>
<td>48.0&quot; X 96.0&quot;</td>
<td>32.00&quot;</td>
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<td>DA-1204</td>
<td>36.0&quot; X 65.73&quot;</td>
<td>24.00&quot;</td>
</tr>
<tr>
<td>DA-1207</td>
<td>24.0&quot; X 60.0&quot;</td>
<td>16.00&quot;</td>
</tr>
</tbody>
</table>
ISOMETRIC VIEW
TYPICAL CLAMP MOUNT PER POLE

NOTES:

- ATTACH MOUNTING CHANNEL (0M-249674) TO TRUSSWORK USING HC-1377 TEK SCREWS.
- CHANNELS ARE TO BE CENTERED AT VERTICAL BEAM LOCATIONS.

0A-1348-0001... MTG HDWE; TRUSSWORK, 1-POLE
TABLE 1: SPACINGS

<table>
<thead>
<tr>
<th>DOME MODEL#</th>
<th>DOME SIZE</th>
<th>DIMENSION (1)</th>
<th>DIMENSION (2)</th>
<th>DIMENSION (3)</th>
<th>DIMENSION (4)</th>
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<tbody>
<tr>
<td>DA-1205-12</td>
<td>3'-0&quot; X 12'-0&quot;</td>
<td>7'-0&quot; - 9'-0&quot;</td>
<td>4'-0&quot;</td>
<td>1'-0&quot;</td>
<td>0'-10&quot;</td>
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<tr>
<td>DA-1205-14</td>
<td>4'-0' X 14'-0&quot;</td>
<td>9'-0&quot; - 11'-0&quot;</td>
<td>5'-0&quot;</td>
<td>2'-0&quot;</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>DA-1205-16</td>
<td>2'-0&quot; X 16'-0&quot;</td>
<td>8'-0&quot; - 10'-0&quot;</td>
<td>4'-0&quot;</td>
<td>1'-0&quot;</td>
<td>1'-2&quot;</td>
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<tr>
<td>DA-1205-18</td>
<td>3'-0&quot; X 18'-0&quot;</td>
<td>11'-0&quot; - 13'-0&quot;</td>
<td>9'-0&quot;</td>
<td>1'-0&quot;</td>
<td>1'-2&quot;</td>
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<tr>
<td>DA-1205-20</td>
<td>3'-0&quot; X 20'-0&quot;</td>
<td>12'-0&quot; - 14'-0&quot;</td>
<td>7'-0&quot;</td>
<td>1'-0&quot;</td>
<td>1'-2&quot;</td>
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<tr>
<td>DA-1205-25</td>
<td>4'-0&quot; X 25'-0&quot;</td>
<td>14'-0&quot; - 16'-0&quot;</td>
<td>9'-0&quot;</td>
<td>1'-0&quot;</td>
<td>1'-4&quot;</td>
</tr>
<tr>
<td>DA-1205-27</td>
<td>4'-0&quot; X 27'-0&quot;</td>
<td>14'-0&quot; - 18'-0&quot;</td>
<td>10'-0&quot;</td>
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<td>1'-4&quot;</td>
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TABLE 2: STEEL STRINGER SIZES

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<tr>
<th>DISPLAY LENGTH (FT)</th>
<th>NUMBER OF COLUMNS</th>
<th>COLUMN SPACING (FT)</th>
<th>STRINGER SIZE</th>
<th>DESIGN WIND VELOCITY</th>
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<tbody>
<tr>
<td>90 MPH - 130 MPH</td>
<td>150 MPH</td>
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<tr>
<td>14</td>
<td>2</td>
<td>9'-0&quot; - 11'-0&quot;</td>
<td>HSS44X44X3/16</td>
<td>HSS44X44X5/16</td>
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<tr>
<td>16</td>
<td>2</td>
<td>8'-0&quot; - 10'-0&quot;</td>
<td>HSS44X44X3/16</td>
<td>HSS44X44X5/16</td>
</tr>
<tr>
<td>18</td>
<td>2</td>
<td>7'-0&quot; - 9'-0&quot;</td>
<td>HSS44X44X3/16</td>
<td>HSS44X44X5/16</td>
</tr>
<tr>
<td>20</td>
<td>2</td>
<td>6'-0&quot; - 8'-0&quot;</td>
<td>HSS44X44X3/16</td>
<td>HSS44X44X5/16</td>
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<tr>
<td>25</td>
<td>2</td>
<td>4'-0&quot; - 6'-0&quot;</td>
<td>HSS50X50X5/16</td>
<td>HSS50X50X5/16</td>
</tr>
<tr>
<td>27</td>
<td>2</td>
<td>4'-0&quot; - 6'-0&quot;</td>
<td>HSS50X50X5/16</td>
<td>HSS50X50X5/16</td>
</tr>
</tbody>
</table>

*WIND DESIGN ASCE 7-05 USE CAT A, EXP C, Kx=1.04, CY=1.64, 30 MAX SIGN FACE, DISPLAY IS ASSUMED TO BE 10' OFF GRADE

**CRITICAL**
DO NOT USE ANY LUBRICANT ON ANY MOUNTING HARDWARE OR WARRANTY WILL BE VOIDED
STRUCTURAL NOTES:

ALLOWABLE LOADS PER COLUMN CONNECTION

MAX ALLOWABLE WEIGHT: 180 LBS 
MAX WIND LOAD CAPACITY: 1400 LBS 
COEFFICIENT OF FRICTION: 0.45 
BOLT TORQUE: 40 FT-LB

NOTE: IF THE I-BEAM FLANGE THICKNESS IS GREATER THAN SPECIFIED, LONGER BOLTS WILL BE REQUIRED AT THE CUSTOMERS EXPENSE. MAX LENGTH OF REPLACEMENT BOLT IS 3.5". MUST BE GRADE 5 MINIMUM.

MOUNTING INSTRUCTIONS:

1. ATTACH THE PREDRILLED ALUMINUM CHANNEL TO THE TRUSS WITH SELF DRILLING SCREWS AS SHOWN IN THE UNISTRUT ATTACHMENT SIDE VIEW. 
2. ATTACH UNISTRUT TO CHANNEL. THROUGH HOLES INDICATED IN THE FRONT ISOMETRIC VIEW OF THE CHANNEL AND ATTACH WITH HARDWARE SHOWN IN UNISTRUT ATTACHMENT SIDE VIEW. 
3. PLACE SPRING NUTS INTO UNISTRUT IN APPROXIMATE LOCATION OF VERTICAL BEAMS. 
4. LIFT TRUSS INTO POSITION. 
5. ATTACH I-BEAM CLAMPS WITH 1/2" HARDWARE AS SHOWN IN TOP AND REAR ISOMETRIC VIEW TRUSS ATTACHMENT. 
6. MAKE SURE THE 1/2-13 BOLTS ARE AS CLOSE TO THE I-BEAM FLANGES AS POSSIBLE. 
7. WHEN TRUSS IS ADJUSTED TO FINAL DESIRED POSITION, TIGHTEN BOLTS FIRMLY.

TO DETERMINE IF THE TRUSS BEING MOUNTED WILL EXCEED THE MAX ALLOWABLE LOAD PER CONNECTION TAKE THE WEIGHT OF THE TRUSS AND DIVIDE BY THE NUMBER OF CONNECTIONS. 
THE DECORATIVE TRUSS SHALL NOT HAVE MORE THAN 50% OF THE FACE COVERED. 
ADDITIONAL LETTERING/LOGOS SHALL NOT PROTRUDE MORE THAN 14" ABOVE THE TOP OF THE DECORATIVE TRUSS. 
REFERENCE THE PRODUCT SPECIFICATION DOCUMENTS TO DETERMINE THE WEIGHT OF THE DA-1001 AND DA-1000 TRUSSES. 
DA-1001: SL-08028 
DA-1000: SL-08027
## Two Pole Truss Mounting Table

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## Three Pole Truss Mounting Table

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## Four Pole Truss Mounting Table

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**Notes:**
- For aesthetic purposes space poles of display so they are in line with verticals of truss when possible.
- Drawing tables contain dimensions for square decorative trusses.
- Square - DA-1003
- Arched - DA-1001
- Dimensions G, H, I will not apply to square trusses.
- Dimensions E and F are shown to give an approximate height of the poles. Actual pole height will need to be determined based on the pole spacing.