

# TAS TRUSS ARCH STRUCTURE

# Owner's Manual

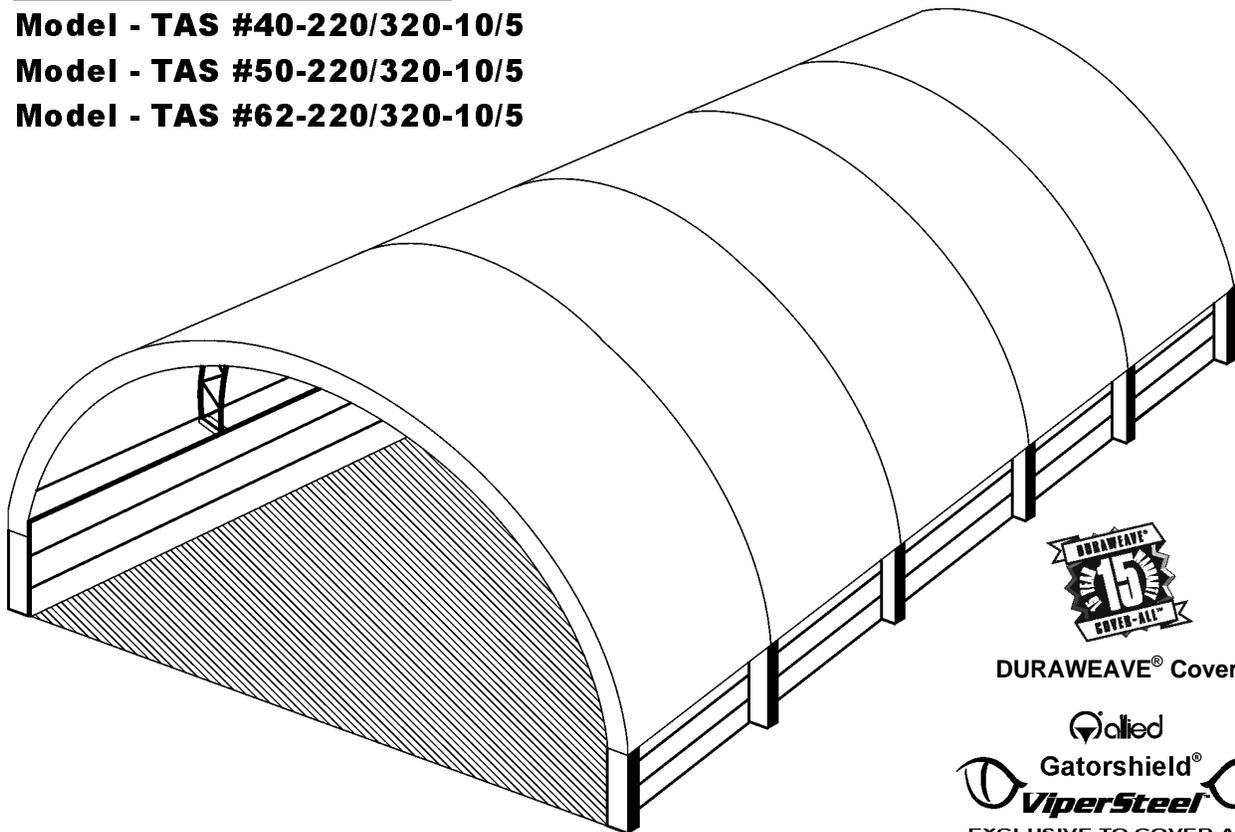
## GROUND & WALL MOUNT

**SERIES: 40/50/62**

Model - TAS #40-220/320-10/5

Model - TAS #50-220/320-10/5

Model - TAS #62-220/320-10/5



DURAWEAWE® Covers



WinchLoc™ Fastening System

**INCLUDES**  
FOUNDATION  
FRAMEWORK  
COVER

ESS AND EP SERIES  
END ENCLOSURES AND  
DURATRAC DOORS ARE  
SHIPPED WITH THEIR OWN MANUALS.

# Building Components

|   |  |   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
|---|--|---|---|---------------|---------|---------|---------------|--------|-------|--------------|--------|-------|--------------|--------|---------|--------------|--------|-------|---|--------------|------------|--------------|-------------|------------|--|---------------|-------------|---------|---------------|------------|-------|---------------|-------------|---------|---------------|--------------|-------|--|--|---------------|---------|---------|---------------|---------|-------|---------------|--------|-------|--------------|--------|-------|--------------|--------|-------|--------------|--------|-------|--------------|--------|-------|--------------|--------|------|---------------|---------|---------|---------------|---------|-------|---------------|-------------|---------|---------------|--------------|-------|
| <p>99.90#</p> <p>CENTER TRUSS COMMON<br/>TAS 40'</p> <p>301030</p>  | <p>94.94#</p> <p>COMMON END TRUSS<br/>TAS 40'</p> <p>301040</p>                      | <p>116.03#</p> <p>TRUSS COMMON<br/>TAS 50' / 55'</p> <p>301120</p>  | <p>111.07#</p> <p>END TRUSS<br/>TAS 50' / 55'</p> <p>301130</p> |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>115.78#</p> <p>CENTER TRUSS COMMON<br/>TAS 62'</p> <p>301540</p>   | <p>110.82#</p> <p>COMMON END TRUSS<br/>TAS 62'</p> <p>301550</p>                     | <table border="1"> <tr> <td>FT2.375-245S</td> <td>245"</td> <td>41.52 #</td> </tr> <tr> <td>FT2.375-148S</td> <td>148"</td> <td>25.08</td> </tr> <tr> <td>FT2.375-124S</td> <td>124"</td> <td>21.01</td> </tr> </table> <p>FASTENING TUBE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>FT2.875-245S</td> <td>245"</td> <td>50.58 #</td> </tr> <tr> <td>FT2.875-148S</td> <td>148"</td> <td>30.55</td> </tr> <tr> <td>FT2.875-124S</td> <td>124"</td> <td>23.60</td> </tr> </table> <p>FASTENING TUBE<br/>2 7/8"Ø - 14 GA</p> |   | FT2.375-245S  | 245"    | 41.52 # | FT2.375-148S  | 148"   | 25.08 | FT2.375-124S | 124"   | 21.01 | FT2.875-245S | 245"   | 50.58 # | FT2.875-148S | 148"   | 30.55 | FT2.875-124S  | 124"         | 23.60      |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.375-245S  | 245"   | 41.52 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.375-148S  | 148"   | 25.08   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.375-124S  | 124"   | 21.01   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.875-245S  | 245"   | 50.58 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.875-148S  | 148"   | 30.55   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| FT2.875-124S  | 124"   | 23.60   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>PURLIN - 2 HOLE<br/>1.66"Ø - 14 GA</p> <table border="1"> <tr> <td>PA11.66 - 10C</td> <td>9'- 7"</td> <td>13.61 #</td> </tr> <tr> <td>PA11.66 - 9C</td> <td>8'- 7"</td> <td>12.21</td> </tr> <tr> <td>PA11.66 - 8C</td> <td>7'- 7"</td> <td>10.81</td> </tr> <tr> <td>PA11.66 - 7C</td> <td>6'- 7"</td> <td>9.41</td> </tr> <tr> <td>PA11.66 - 6C</td> <td>5'- 7"</td> <td>8.01</td> </tr> <tr> <td>PA11.66 - 5C</td> <td>4'- 7"</td> <td>6.61</td> </tr> </table>   | PA11.66 - 10C  | 9'- 7"  | 13.61 #   | PA11.66 - 9C  | 8'- 7"  | 12.21   | PA11.66 - 8C  | 7'- 7" | 10.81 | PA11.66 - 7C | 6'- 7" | 9.41  | PA11.66 - 6C | 5'- 7" | 8.01    | PA11.66 - 5C | 4'- 7" | 6.61  | <p>PURLIN - 3 HOLE<br/>1.66"Ø - 14 GA</p> <table border="1"> <tr> <td>PA1.66 - 10C</td> <td>9'- 8 3/4"</td> <td>13.75 #</td> </tr> <tr> <td>PA1.66 - 9C</td> <td>8'- 8 1/4"</td> <td>12.35</td> </tr> <tr> <td>PA1.66 - 8C</td> <td>7'- 8 5/16"</td> <td>10.96</td> </tr> <tr> <td>PA1.66 - 7C</td> <td>6'- 8 3/8"</td> <td>9.57</td> </tr> <tr> <td>PA1.66 - 6C</td> <td>5'- 8 3/8"</td> <td>8.17</td> </tr> <tr> <td>PA1.66 - 5C</td> <td>4'- 8 5/16"</td> <td>6.76</td> </tr> </table> | PA1.66 - 10C | 9'- 8 3/4" | 13.75 #      | PA1.66 - 9C | 8'- 8 1/4" | 12.35  | PA1.66 - 8C   | 7'- 8 5/16" | 10.96   | PA1.66 - 7C   | 6'- 8 3/8" | 9.57  | PA1.66 - 6C   | 5'- 8 3/8"  | 8.17    | PA1.66 - 5C   | 4'- 8 5/16"  | 6.76  | <p>PURLIN - 2 HOLE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 8"</td> <td>24.01 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 8"</td> <td>21.98</td> </tr> <tr> <td>PA2.375 - 10C</td> <td>9'- 8"</td> <td>19.94</td> </tr> <tr> <td>PA2.375 - 9C</td> <td>8'- 8"</td> <td>17.91</td> </tr> <tr> <td>PA2.375 - 8C</td> <td>7'- 8"</td> <td>15.88</td> </tr> <tr> <td>PA2.375 - 7C</td> <td>6'- 8"</td> <td>13.84</td> </tr> <tr> <td>PA2.375 - 6C</td> <td>5'- 8"</td> <td>11.81</td> </tr> <tr> <td>PA2.375 - 5C</td> <td>4'- 8"</td> <td>9.78</td> </tr> </table> <p>PURLIN - 3 HOLE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 7"</td> <td>23.84 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 7"</td> <td>21.81</td> </tr> </table> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 8 1/4"</td> <td>23.84 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 8 3/16"</td> <td>21.81</td> </tr> </table> |  | PA2.375 - 12C | 11'- 8" | 24.01 # | PA2.375 - 11C | 10'- 8" | 21.98 | PA2.375 - 10C | 9'- 8" | 19.94 | PA2.375 - 9C | 8'- 8" | 17.91 | PA2.375 - 8C | 7'- 8" | 15.88 | PA2.375 - 7C | 6'- 8" | 13.84 | PA2.375 - 6C | 5'- 8" | 11.81 | PA2.375 - 5C | 4'- 8" | 9.78 | PA2.375 - 12C | 11'- 7" | 23.84 # | PA2.375 - 11C | 10'- 7" | 21.81 | PA2.375 - 12C | 11'- 8 1/4" | 23.84 # | PA2.375 - 11C | 10'- 8 3/16" | 21.81 |
| PA11.66 - 10C   | 9'- 7"   | 13.61 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA11.66 - 9C  | 8'- 7"   | 12.21   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA11.66 - 8C  | 7'- 7"   | 10.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA11.66 - 7C  | 6'- 7"   | 9.41  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA11.66 - 6C  | 5'- 7"   | 8.01  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA11.66 - 5C  | 4'- 7"   | 6.61  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 10C  | 9'- 8 3/4"   | 13.75 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 9C   | 8'- 8 1/4"   | 12.35   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 8C   | 7'- 8 5/16"  | 10.96   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 7C   | 6'- 8 3/8"   | 9.57  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 6C   | 5'- 8 3/8"   | 8.17  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA1.66 - 5C   | 4'- 8 5/16"  | 6.76  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 8"  | 24.01 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 8"  | 21.98   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 10C   | 9'- 8"   | 19.94   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 9C  | 8'- 8"   | 17.91   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 8C  | 7'- 8"   | 15.88   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 7C  | 6'- 8"   | 13.84   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 6C  | 5'- 8"   | 11.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 5C  | 4'- 8"   | 9.78  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 7"  | 23.84 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 7"  | 21.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 8 1/4"  | 23.84 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 8 3/16"   | 21.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>PURLIN - RIDGE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 8"</td> <td>24.01 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 8"</td> <td>21.98</td> </tr> <tr> <td>PA2.375 - 10C</td> <td>9'- 8"</td> <td>19.94</td> </tr> <tr> <td>PA2.375 - 9C</td> <td>8'- 8"</td> <td>17.91</td> </tr> <tr> <td>PA2.375 - 8C</td> <td>7'- 8"</td> <td>15.88</td> </tr> <tr> <td>PA2.375 - 7C</td> <td>6'- 8"</td> <td>13.84</td> </tr> <tr> <td>PA2.375 - 6C</td> <td>5'- 8"</td> <td>11.81</td> </tr> <tr> <td>PA2.375 - 5C</td> <td>4'- 8"</td> <td>9.78</td> </tr> </table> | PA2.375 - 12C  | 11'- 8"   | 24.01 #   | PA2.375 - 11C | 10'- 8" | 21.98   | PA2.375 - 10C | 9'- 8" | 19.94 | PA2.375 - 9C | 8'- 8" | 17.91 | PA2.375 - 8C | 7'- 8" | 15.88   | PA2.375 - 7C | 6'- 8" | 13.84 | PA2.375 - 6C  | 5'- 8"       | 11.81      | PA2.375 - 5C | 4'- 8"      | 9.78       | <p>PURLIN - 2 HOLE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 7"</td> <td>23.84 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 7"</td> <td>21.81</td> </tr> </table> <p>PURLIN - 3 HOLE<br/>2 3/8"Ø - 14 GA</p> <table border="1"> <tr> <td>PA2.375 - 12C</td> <td>11'- 8 1/4"</td> <td>23.84 #</td> </tr> <tr> <td>PA2.375 - 11C</td> <td>10'- 8 3/16"</td> <td>21.81</td> </tr> </table> | PA2.375 - 12C | 11'- 7"     | 23.84 # | PA2.375 - 11C | 10'- 7"    | 21.81 | PA2.375 - 12C | 11'- 8 1/4" | 23.84 # | PA2.375 - 11C | 10'- 8 3/16" | 21.81 | <p>TAS PURLIN BRIDGE PLATE<br/>3/16" PLATE</p> <p>310840</p> <p>TAS SADDLE BRACKET w/ TAB<br/>ASSEMBLY</p> <p>310850</p> <p>TAS WEB PLATE<br/>3/16" PLATE</p> <p>310620</p> <p>TAS TAB WEB PLATE<br/>ASSEMBLY</p> <p>310820</p>  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 8"  | 24.01 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 8"  | 21.98   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 10C   | 9'- 8"   | 19.94   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 9C  | 8'- 8"   | 17.91   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 8C  | 7'- 8"   | 15.88   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 7C  | 6'- 8"   | 13.84   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 6C  | 5'- 8"   | 11.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 5C  | 4'- 8"   | 9.78  |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 7"  | 23.84 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 7"  | 21.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 12C   | 11'- 8 1/4"  | 23.84 #   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| PA2.375 - 11C   | 10'- 8 3/16"   | 21.81   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>0.88#</p> <p>TAS PURLIN BRACKET<br/>3/16" PLATE (2 3/8" Ø PIPE)</p> <p>310860</p>  | <p>1.33#</p> <p>RATCHET c/w D-RINGS</p> <p>321020</p>                                | <p>1.20#</p> <p>LASHING WINCH</p> <p>RIGHT HAND 804073<br/>LEFT HAND 804074</p> <p>350072</p>   | <p>1.45#</p> <p>PVC TUBE<br/>3/4"</p> <p>900290</p>             |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>0.85 #</p> <p>TAS CROSS CABLE - 60'<br/>3/16" CABLE ASSY</p> <p>804810</p>   | <p>0.94 #</p> <p>CABLE CLAMP - 3/16"</p> <p>804850</p>                               | <p>3.60#</p> <p>T-BEVEL</p> <p>804090</p>   | <p>120"</p> <p>1" BELTING</p> <p>804540</p>                     |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>1.0 #</p> <p>CABLE CLAMP - 3/16"</p> <p>804850</p>   | <p>0.25 #</p> <p>BUILDING JOINER BRACKET<br/>2" x 3" x 3/16" ANGLE</p> <p>322015</p> | <p>0.05#</p> <p>FASTENING TUBE END PLUG<br/>2 3/8"Ø PLASTIC</p> <p>804190</p>   | <p>1.4 #</p> <p>SILICONE<br/>300 ML TUBE</p> <p>804525</p>      |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |
| <p>PVC GLUE</p> <p>804520</p> <p>3/8" MAG CHUCK DRIVER</p> <p>804100</p> <p>DUCT TAPE</p> <p>804500</p>   | <p>DURAWEAWE™<br/>COVER(S)</p> <p>0 #</p> <p>LOCTITE # 242 - .5ml</p> <p>830533</p>  | <p><b>Buildings Over 130'</b></p> <p>9.27#</p> <p>BUILDING JOINER BRACKET<br/>2" x 3" x 3/16" ANGLE</p> <p>322015</p> <p>SILICONE<br/>300 ML TUBE</p> <p>804525</p>   |   |               |         |         |               |        |       |              |        |       |              |        |         |              |        |       |   |              |            |              |             |            |  |               |             |         |               |            |       |               |             |         |               |              |       |  |  |               |         |         |               |         |       |               |        |       |              |        |       |              |        |       |              |        |       |              |        |       |              |        |      |               |         |         |               |         |       |               |             |         |               |              |       |



## IMPORTANT – READ MANUAL FIRST

**Improper Site Preparation, Assembly and Maintenance may invalidate warranty and cause unnecessary and costly mistakes. If you have any questions contact your local dealer.**

## MAINTENANCE SCHEDULE

*Failure to comply with this maintenance schedule will invalidate the warranty.*

### A. INSTALLATION ADJUSTMENT

1. The cover of your Cover-All™ building may relax after installation. It is important to keep the cover tight to prevent wear and ensure a long life. Use a torque wrench to adjust winch tension on the *inside winches only* 35 – 45 ft. lbs. **Do not exceed 45 ft. lbs.** Tighten the end winches until the fastening pipe is level. Retighten end flaps.

**NOTE:** *Building covers installed during cooler weather tend to relax more than covers installed during warmer weather. If your cover was installed in cooler weather recheck its tightness on the first available warm sunny day.*

### B. INSTALLATION INSPECTION - 1 WEEK

1. Lashing Winches - ensure the straps are secure and the cover is tight. Check tension on winches with a torque wrench 35 – 45 ft. lbs. **Do not exceed 45 ft. lbs.**
2. Belting - check for premature belting wear and ensure tightness.
3. End Flaps - ensure the flaps remain tight and securely fastened.
4. Steel - Seal all surface penetration marks with a sealant or high zinc content paint.

### C. QUARTERLY MAINTENANCE

1. Repeat above “INSTALLATION INSPECTION - 1 WEEK” a minimum of 4 times per year.

### D. GENERAL

1. **Fabric** - Clean with water and non-abrasive soap. Do not use solvents or chemicals.
2. **Snowfall** - Snow accumulating on the cover could indicate that the cover needs re-tensioning. Remove snow and check tension immediately or damage may occur. Remove any ground snow that threatens to put lateral force on the fabric or structure.

### E. ACCIDENTAL DAMAGE

**Fabric:** Sharp objects can puncture and damage the DURAWEAVE® fabric. Do not attempt to seal or repair with conventional materials. Call your local Cover-All™ representative. He can assess the damage and facilitate replacement or provide a heat-weld service if the fabric is repairable.

**Damage under 4”:** A gel tape is available from your local representative for temporary repair of fabric damage under 4”. A heat-weld repair should be scheduled as soon as possible.

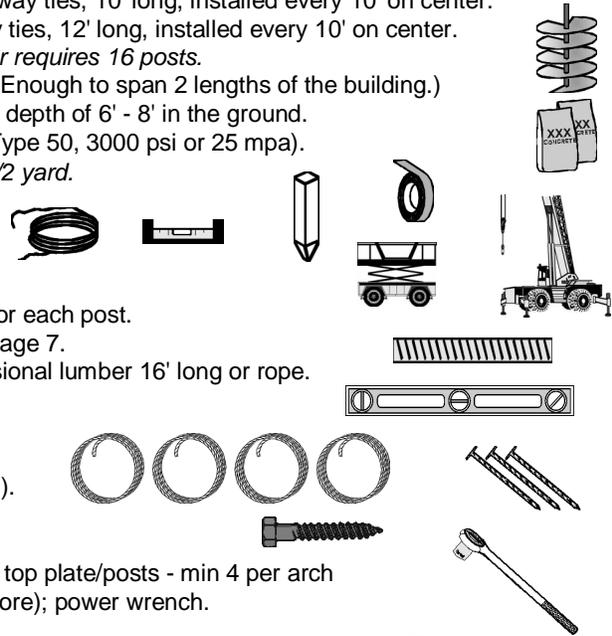
**Structure:** Report and document any damage to the steel structure, components or foundation immediately. Have your local Cover-All™ representative inspect the damage and provide a comprehensive evaluation. Perform any temporary or emergency repairs as determined. Replace or repair damaged components as determined.

**Other:** Any fabric or structural irregularities not resulting from accidents or extreme weather should be documented and reported immediately. Have your local Cover-All™ representative inspect the damage and provide a comprehensive evaluation.

# REQUIRED EQUIPMENT AND MATERIALS

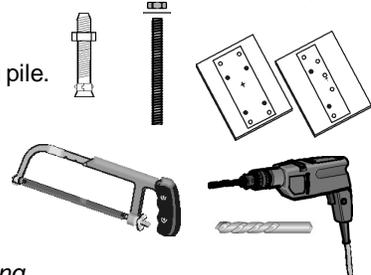
**NOTE: Materials specified are for mounting 40' & 50' buildings on a 4' (48") wall and 62' buildings on a 6' (72") wall, with trusses 10' on center. Adjust material requirements if walls are not the specified height and check with a geotechnical engineer for the recommended pile/post specifications. If building configuration changes significantly check with your Cover-All™ Dealer for loading on piles/posts.**

- Series 40/50 only** - 6" x 8" (minimum) posts or railway ties, 10' long, installed every 10' on center.  
**Series 62 only** - 8" x 8" (minimum) posts or railway ties, 12' long, installed every 10' on center.  
*Eg. A 40/50/62 x 70' building with posts 10' on center requires 16 posts.*
- 2" x 12" dimensional lumber to use as a top plate. (Enough to span 2 lengths of the building.)
- Post hole auger with a 18"-20" diameter to drill to a depth of 6' - 8' in the ground.
- Concrete (recommended concrete specifications: Type 50, 3000 psi or 25 mpa).  
*Eg. A 20" hole 8' deep with a 6" x 8" post requires 1/2 yard.*
- String and string level for alignment.
- Stakes and tape to mark the post locations.
- Movable scaffolding or a platform lift.
- Crane or equivalent to lift 30+ feet vertical.
- Two (2) pieces of 5/8" (minimum) rebar, 12" long, for each post.
- 5/8" rebar and #3 circular rings as required—see Page 7.
- Temporary bracing material such as 2" x 6" dimensional lumber 16' long or rope.
- Square level.
- 2 to 4 lengths of rope 100' or longer.
- Spiral nails 3" or 3 1/2" (minimum of 2 per post).
- Power drill and 11/16" drill bit (to drill through posts).
- Torque wrench.
- Hacksaw
- Lag bolts** min 3/8 x 1 1/2" to fasten the arch to the top plate/posts - min 4 per arch
- Optional** -A transit (available from a local rental store); power wrench.



## GROUND MOUNT

- 5/8" tapered or 5/8" anchor bolts (minimum 18" long) and nuts Four (4) for each pile.
- Plywood templates (one for each pile) to position anchor bolts.



## OPTIONAL MATERIALS REQUIRED TO FINISH INTERIOR SIDE WALLS

### A - NON-VENTILATION - for Commercial and Storage purposes:

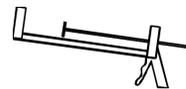
- 2" x 4" dimensional lumber to use as strapping.  
*Eg. The side walls of 40/50/62 x 70' building requires 36 pieces twelve feet long.*
- Sheets of plywood, OSB Board (chipboard), or alternate material suitable for lining the side walls.  
*Eg. The side walls of a Series 40/50 x 70' building require eighteen 4' x 8' sheets.*  
**Series 62 only** - 27 sheets

### B - SIDE VENTILATION - for Livestock purposes:

- Series 40/50 only** - Approximately 65 board feet of dimensional lumber for every 6 feet of total building length.  
*Eg. The side walls of a Series 40/50 x 70' building requires approximately 800 board feet.*  
**Series 62 only** - Approximately 100 board feet for every 6 feet of total building length.  
*Eg. The side walls of a Series 62 x 70' building requires approximately 1200 board feet.*
- 2" x 4" dimensional lumber to use as strapping to mount the deflector board.  
*Eg. A 40/50/62 x 70' building requires 12 pieces twelve feet long.*
- 2 1/2" u-bolts to attach the strapping to the arch tubes. (One for each arch.)
- Deflector board - sheets of plywood or OSB board (chipboard) 8' x 4' wide extending the full length of the side walls. (1/2" thick recommended) *Eg. A 40/50/62 x 70' building requires 18 sheets.*

## OPTIONAL MATERIALS REQUIRED FOR BUILDINGS OVER 140'

- Caulking gun



**NOTE: Cover-All™ Building Systems is not responsible for any damages which may occur during installation.**



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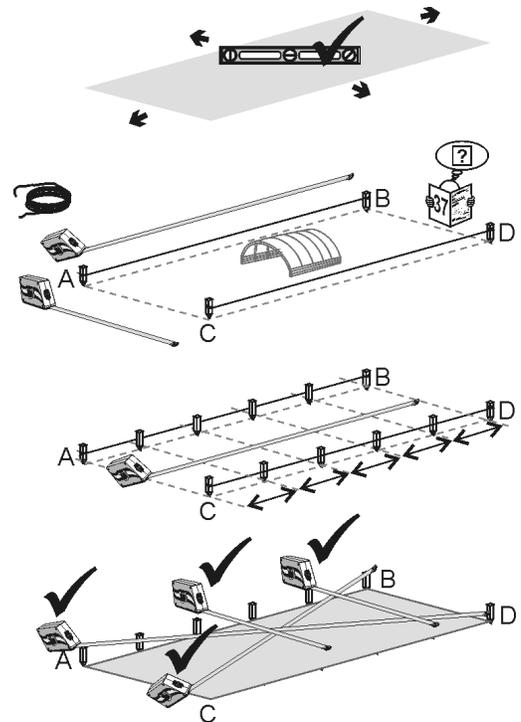
**IF YOUR BUILDING IS NOT WALL MOUNTED, Sections B and C, including building dimensions on Page 6, DO NOT APPLY. See Appendix A, Page 25 for foundation measurements and engineered boot installation.**

**NOTE: COVER-ALL™ BUILDING SYSTEMS IS NOT RESPONSIBLE FOR FOUNDATION DESIGN OR INSTALLATION.**

**Please consult with a qualified engineer for soil conditions in your area. The foundation suggestions below are acceptable for soil conditions providing: 125(2500) End Bearing kPa (psf); 20(400) Skin Friction kPa (psf).**

## A - SITE PREPARATION/FOUNDATION

1. Start with a level site.
2. Stake out the location of the corner posts/piles A, B, C and D. Use an accepted method to make the foundation straight and square. See *Squaring A Foundation (Page 37)* for assistance.
3. String a line from A to B and from C to D.
4. With a measuring tape attached to stake A & C, measure and stake the post/pile intervals along the length of the building using a **running measurement**.  
*Eg. 5' centers - 5', 10', 15' etc.*
5. Check linear measurements by measuring the distance between each stake. Distance should be equal. Check the square of the foundation by measuring diagonally. Diagonal measurements should be equal. Continue to check the width and diagonal measurements the entire length of the building.
6. **Ground Mounted Buildings** – Width measurements are center-of-pile to center-of-pile. See Appendix A, Page 25.



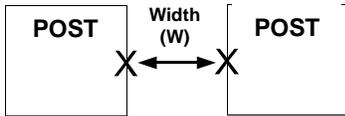
**NOTE: Buildings over 140' in length have more than one cover. Even with this feature, the foundation continues as a running measurement for the entire length of the building.**

## B - INSTALLATION OF POSTS

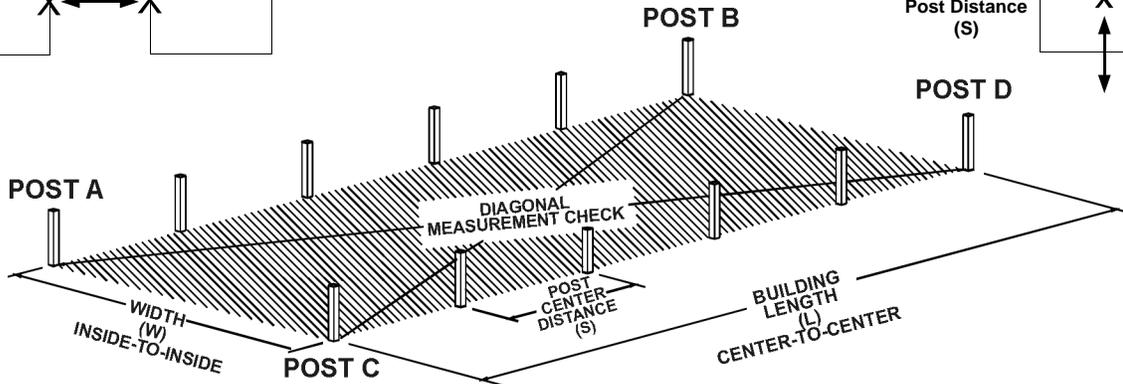
1. Drill a 18" -20" hole a minimum of 6' deep at each stake.
2. After the holes are drilled, check once more to ensure that the holes are placed correctly, verifying all measurements. If some holes are out of line, you may have to widen them to maintain post alignment.

# SERIES 40 / 50 / 62

Inside-to-Inside Measurements



Center-to-Center Measurements



## WALL MOUNT MEASUREMENTS

### SERIES 40

(W) WIDTH = 38' 6"

(S) POST CENTERS = 10' 0"

### SERIES 50

(W) WIDTH = 48' 6"

(S) POST CENTERS = 10' 0"

### SERIES 62

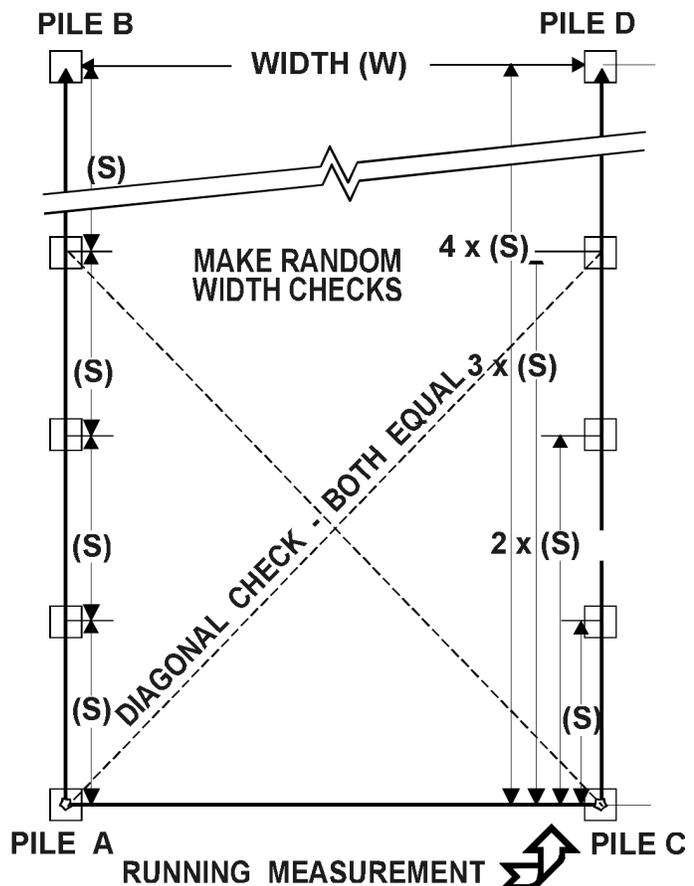
(W) WIDTH = 60' 6"

(S) POST CENTERS = 10' 0"

### RUNNING MEASUREMENTS

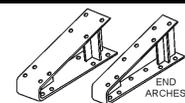
(S) POST CENTERS = 10'  
10', 20', 30', 40', 50' etc.

(S) POST CENTERS = 5'  
5', 10', 15', 20', 25' etc.



ALL WALL MOUNT *WIDTH* MEASUREMENTS ARE *INSIDE-TO-INSIDE*

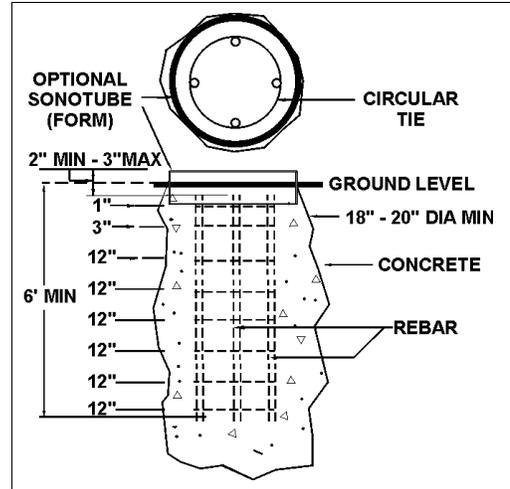
**IMPORTANT:** GROUND MOUNTED BUILDINGS USE *CENTER-TO-CENTER* MEASUREMENTS TO DETERMINE PILE PLACEMENT. SEE APPENDIX A, PAGE 25.



3. **REBAR AND FORMS**

**A 6' pile requires eight (8) #3 circular ties.**

Place the circular ties as follows:  
 1st tie - 1" from the top end of the rebar.  
 2nd tie - 3" on center below the first tie.  
 3rd tie - 12" on center below the 2nd tie.  
 4th to 8th to 10th ties - every 12" on center.

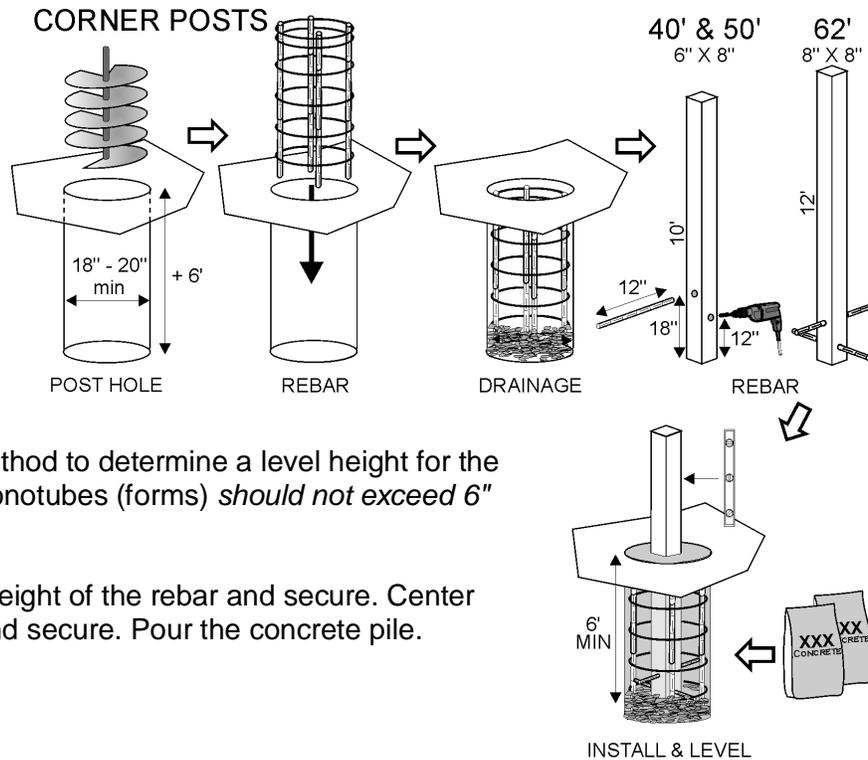


4. Place rebar, drainage, sonotubes (optional forms) and posts in corner holes.

**Series 40/50 –**

Place corner post A in the hole so the post is 4' above the ground. Use a level to set true.

**Series 62 –** Place corner post A in the hole so the post is 6' above the ground. Use a level to set true.



Use an accepted method to determine a level height for the pile and post. The sonotubes (forms) should not exceed 6" above ground level.

Center and set the height of the rebar and secure. Center and level the post and secure. Pour the concrete pile.

**NOTE: Top of rebar must be a minimum of 2" and a maximum of 3" below the top edge of the form (level line). The first tie should be 3" below the top edge of the form.**

5. Place corner post B, C and D and level the tops to post A. Install as above.

MAKE SURE EACH CORNER POST IS SECURED BEFORE CONTINUING ON TO THE NEXT POST.

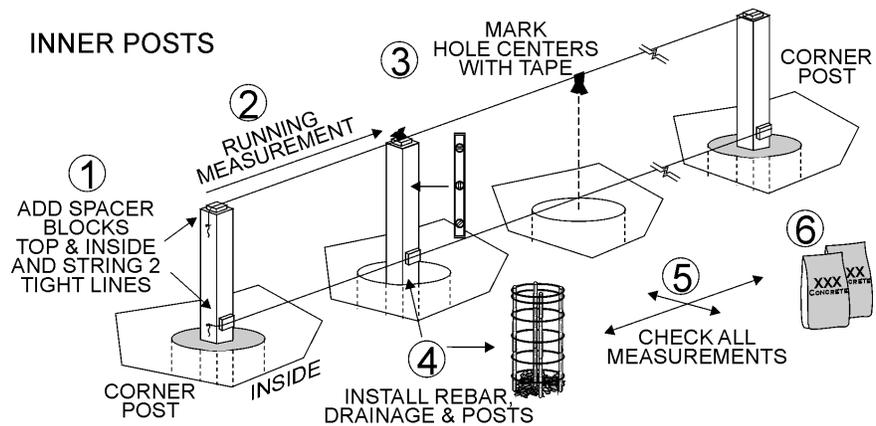
Recheck the width and center-to-center distance between the posts before pouring piles.

6. **Placing inner posts:**

**a** - String a tight line connecting the **TOPS** and **INSIDES** of the corner posts A-B and C-D.

**b** - String a second line along the **INSIDE** of corner posts (A-B and C-D).

Insert a spacer block. Remember to use a similar spacer block when aligning the inner posts.



**Hint:** It is advisable to place a spacer (block of wood) on top of each corner post to keep the line out of work's way. This will be of assistance when posts are positioned and set in place. Remember to use a similar spacer block on the inner posts when positioning. Posts are aligned along the inside to provide an adequate support for all interior finishing.

7. Starting from the center of post A, use a running measurement to mark the line above each hole with a small piece of tape (every 10'). The tape indicates the center of each additional post. Check by measuring post center-to-center distances.
8. Repeat step 7 starting at post C.
9. Place and secure all remaining posts. Make sure that the top center of each post is centered under the piece of tape and that posts are aligned with the inside line.

**Hint:** Ideally, a post near the center of each row should be leveled in with a transit as well. This will minimize the effects of possible sagging of the line.

**NOTE:** It is crucial to take the time to complete final alignment carefully and accurately. This ensures a solid and level foundation for your building.

RE-CHECK CRITICAL MEASUREMENTS

- 1) Building length
  - 2) Post center to center measurements.
  - 3) Width - inside to inside.
  - 4) Diagonal checks
- Refer to chart Page 6 for details

10. After ensuring that the posts are level and even, pour concrete. Remove the lines and spacer blocks. (Allow concrete to cure before proceeding.)

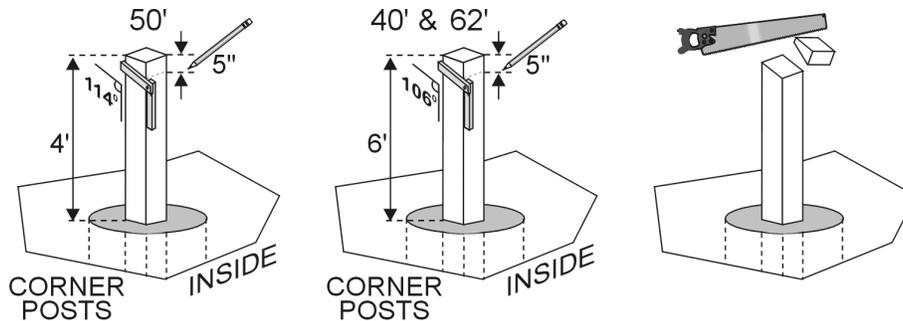
**NOTE:** It is important to tamp or vibrate the concrete to get rid of any air pockets.

## C - POST ANGLE, LASHING WINCHES & TOP PLATE

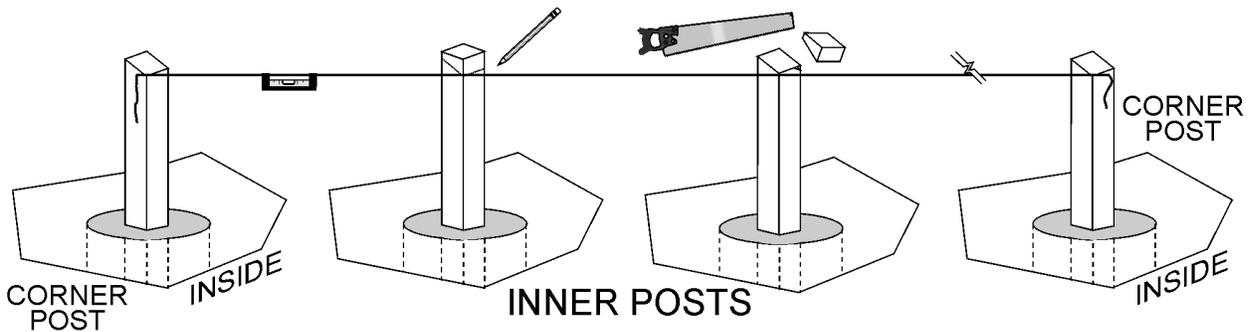
1. Set the sliding T-bevel to the appropriate angle for your building.  
**Series 50 - 114° ; Series 40 & 62 - 106°**

**Hint:** Use an accurate protractor to set the T-bevel. If one is not available use the angle pattern on Back Cover.

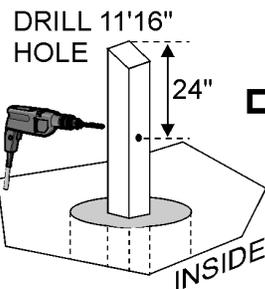
2. Draw a level line across the **inside face** of all the posts, 5" down from the top. Set the sliding T-bevel on the **inside face** of the post and draw a line upward following the angle of the T-bevel.
3. Cut off the tops of each post along the angled line. *The beveled cut faces the inside.*



4. Tie a string line to the corner posts and mark the cut lines on the inner posts. Cut off the tops of each post along the angled line. *The beveled cut faces the inside.*



5. Drill a 11/16" hole through the center of each post 24" below the top of the post.

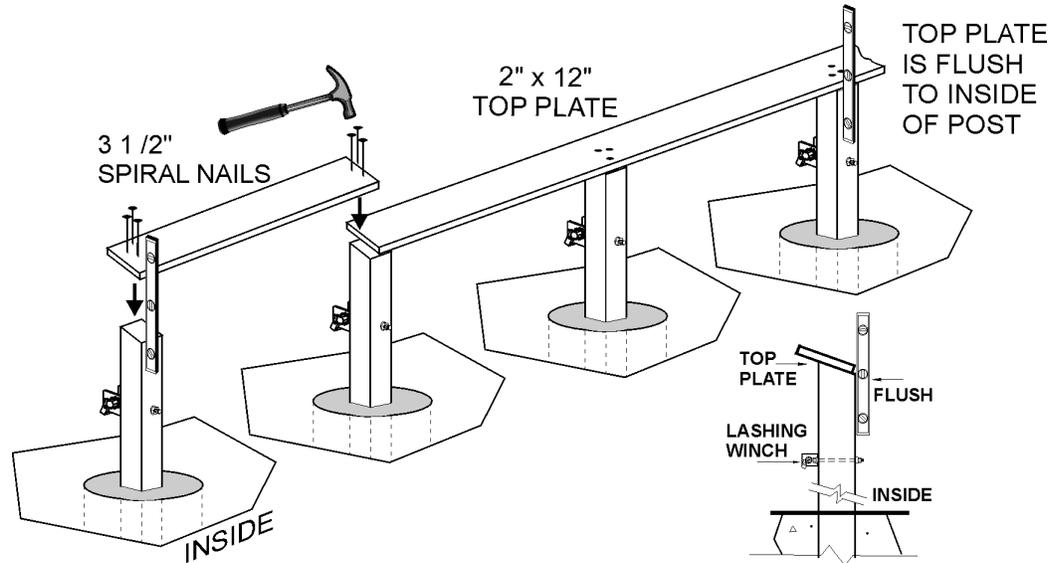


6. Fasten a lashing winch to the outside of each post using 5/8" threaded rod, nuts, and washers. Tighten securely. *Mount lashing winches with the safety latch on the ground side.*



**IMPORTANT:** If you are installing an eave on your building the lashing winches are mounted on the **INSIDE** of the posts.

- Using three (3) 3 1/2" spiral nails, securely fasten the 2" x 12" dimensional lumber top plate to the top of the posts. **The top edge of the plate is flush to the inside of the post.**

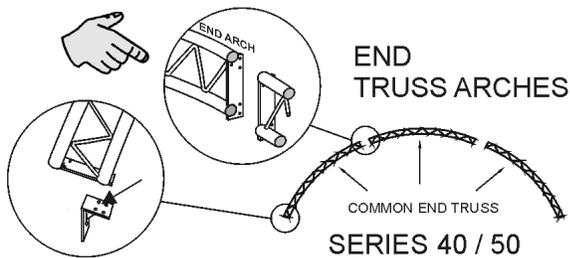
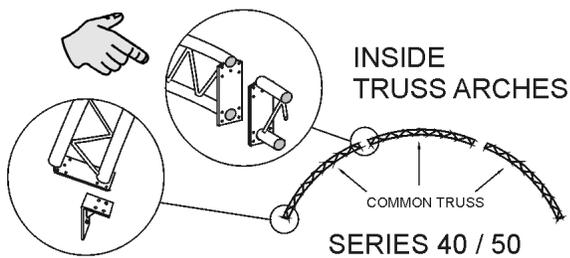


## D - PREPARING TO INSTALL STEEL FRAMEWORK

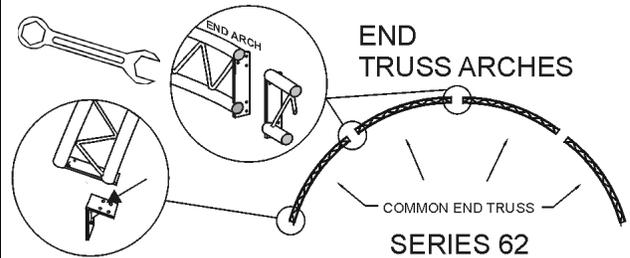
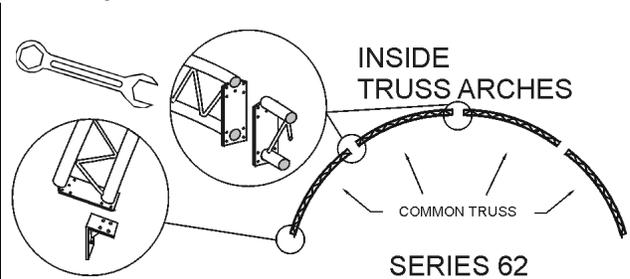
### D1. IDENTIFY AND LAYOUT ARCH TRUSSES.

- Identify and separate the inside trusses from the end trusses. Inside trusses have full coupler plates. End trusses have 1/2 (one-half) coupler plates

**Series 40 / 50** – Each completed arch requires 3 trusses.

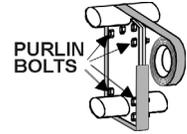


**Series 62** – Each completed arch requires 4 trusses.



**D2. CONNECT (BOLT) TRUSSES TOGETHER.**

1. Join all trusses together using 5/8" x 2" bolts. **40 / 50 – Install all bolts finger tight; 62 – Install all bolts and tighten securely.**



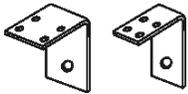
**Hint: Determine which FULL coupler plate bolts will have purlins attached. It is not necessary to tighten these bolts until after the purlins are installed.**

*Eg. A 70' building requires eight (8) complete arches: Two (2) outside arches with 1/2 plate couplers and six (6) inside arches with full plate couplers.*

2. **DUCT TAPE ALL COUPLER PLATES of the trusses generously** to ensure that there are no jagged or sharp edges on which the cover may catch when being pulled over.

**WARNING: All 1/2 coupler plates must have all bolts installed when lifting arch into position or damage may occur.**

**D3. WALL MOUNTED BUILDINGS**

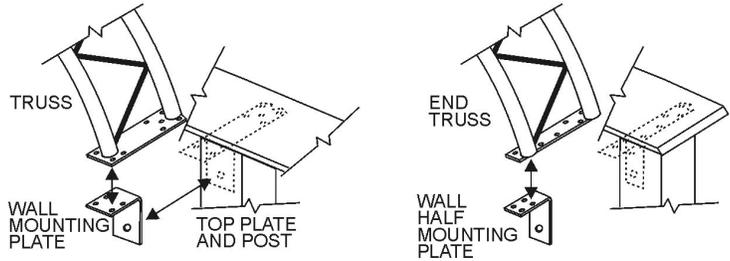


The wall mounting plate attaches to the arch to create a base that allows the building to be mounted on a wall. It is the responsibility of the owner/installer to ensure that the wall will adequately support the building.

1. **COMPONENTS** – not supplied - 4 lag bolts for each arch - min 3/8" x 1 1/2" (3/8" flat washer required).

**2. INSTALLING THE PLATES**

- a. Before installing the arches, install the mounting plates on the base of each arch using 5/8" x 2" bolts and nuts (4 bolts for each plate). Install the half plates on the end arches. **Tighten all bolts securely.**



**D4. GROUND MOUNTED BUILDINGS**

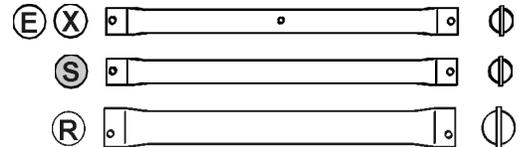
**INSTALL ENGINEERED BOOTS – SEE APPENDIX A, PAGE 25.**

**D5. IDENTIFY PURLINS AND MOUNTING BRACKETS.**

**3-Hole Purlin** - 116 1/4" long (hole center-to-center) 1.66" dia.

**2-Hole Purlin** - 115" long (hole center-to-center) 1.66" dia.

**2-Hole Ridge Purlin** - 116" long with offset holes (hole center-to-center) 2.375" dia.

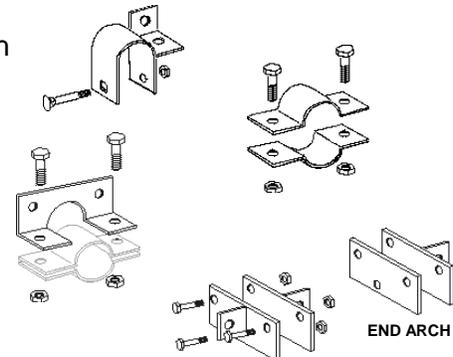


**Saddle Bracket w/tab** - attaches to the lower tube of the arch using one 7/16" x 3 1/2" carriage bolt/nut.

**Purlin Bracket** - installed in pairs, attach to the lower tube of the inside arches using two 5/8" x 2" bolts/nuts.

**Purlin Bridge Plate** - attaches to the top of the purlin brackets where 3-hole purlins are required

**Tab Web Plate / Web Plate**– attach to the truss webbing where 3-hole purlins are required using three 3/8" x 2" bolts/nuts.

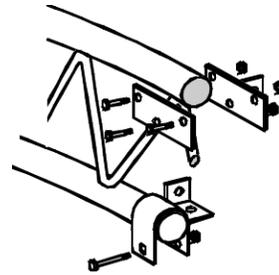
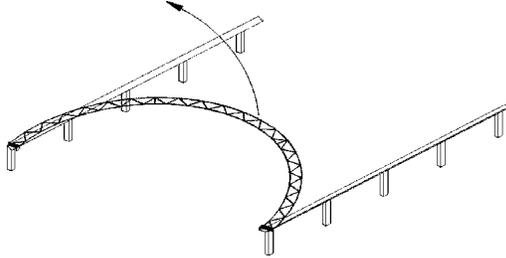


# E - ERECTING THE STEEL FRAMEWORK

**IMPORTANT: BOLT-ON MOUNTING PLATES (OR ENGINEERED BOOTS) MUST BE INSTALLED BEFORE ERECTING FRAMEWORK.**

## E1. HOIST END ARCH INTO POSITION.

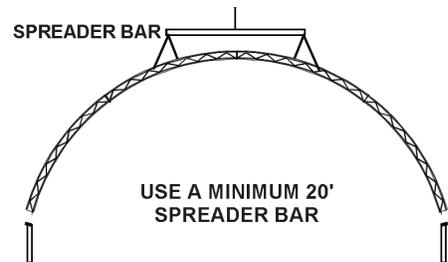
1. Place one end arch into position (cradle it between the pony walls) with the base of the arch pointing outward.



2. Attach web plates and tab web plates using 3/8" x 2" hex bolts/nuts and saddle brackets w/tabs using one 7/16" x 3 1/2" carriage bolt/nut as required. See Pages 17, 18 and 19 for purlin locations. **HSL Series 62 see Appendix E, Page 30.**

3. Elevate the truss into its upright position, and center it on top of the end posts. Use extreme caution when lifting arches.

**Always use a spreader bar.**

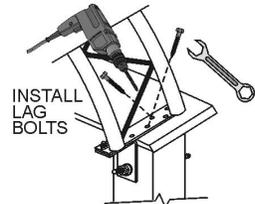
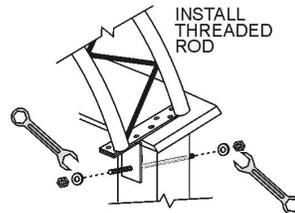


## E2. SECURING THE ARCHES.

1. Lift the arch into position and drill an 11/16" hole through the mounting plate and the center of both posts.



2. Install the threaded rod using flat washers and nuts on both sides. **Tighten securely.**



3. Install 2 lag bolts - minimum 3/8" x 1 1/2" long (lag bolts not supplied) through the coupler plate into the top plate.

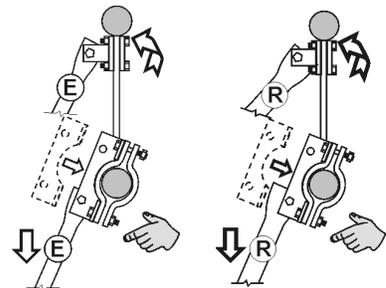
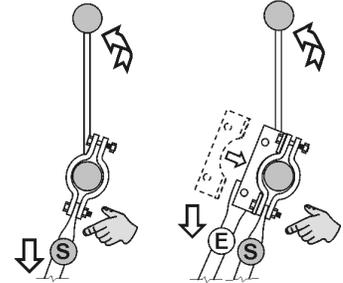
**HINT: When installing lag bolts, pre-drill holes to prevent splitting. Where possible install the lag bolts into the post. The lag bolts are installed to eliminate arch twist. They do not "anchor" the arch.**

**WARNING: TRUSS WILL FAIL AND WARRANTY IS VOID IF A SPREADER BAR IS NOT USED.**

4. **SERIES 40 AND 50 TIGHTEN ALL COUPLER BOLTS SECURELY.**
5. Brace the arch sufficiently in the upright position *before* removing the lift equipment.

**E3. HOIST THE SECOND ARCH INTO POSITION.**  
*See Pages 17, 18, & 19 and Appendix E, Page 30 for purlin bracket/plate locations.*

1. Move an inside arch (full coupler plates) into position and attach web plates as required.
2. Attach purlin brackets along with purlin bridge plates and a purlins as required using 5/8" x 2" hex bolts/nuts. Hand tighten the purlin bolt and loosely install the second bolt. The 1.66" dia. 2-hole purlin goes **between** the two purlin brackets. The 2.375" dia. 2-hole ridge purlins R (offset holes) attach to the tab web and bridge plates.
3. Elevate the arch as before, allowing the purlins to swing and hang downwards, and center the arch on posts.
4. Drill hole through the post and secure the arch using the threaded rod, plated flat washers and nuts on both sides.



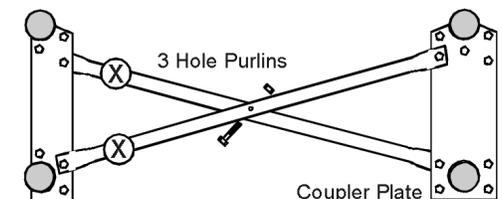
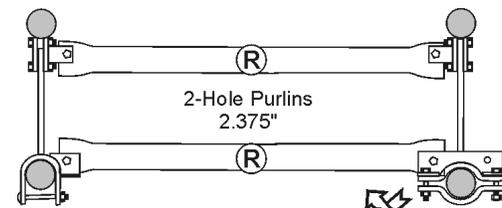
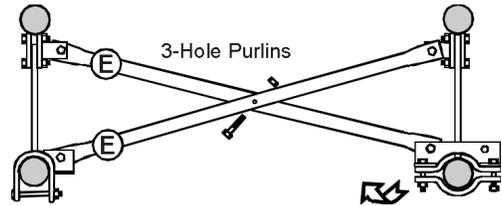
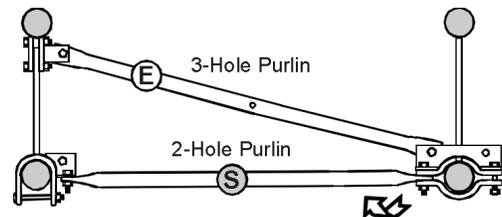
**E4. INSTALL THE END PURLINS.**  
*See Pages 17, 18, & 19 and Appendix E, Page 30 for purlin locations.*

1. Swing the free end of the 2-hole and 3-hole purlins up to the saddle brackets w/tabs and tab web plates on the previously installed arch and attach using 5/8" x 2" hex bolts/nuts. Center bolt the crossed purlins using a 3/8" x 3 1/2" bolt and nut. *You may need to install the center bolt before tightening the 5/8" x 2" bolts.*

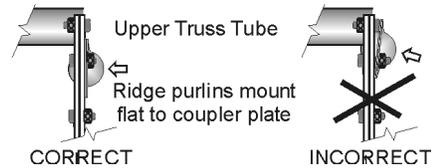
- Series 40 – 2 of 2-hole (1.66" dia) - S  
                   2 of 2-hole (2.375 dia) - R
- Series 50 – 2 of 2-hole (1.66" dia) - S  
                   2 of 3-hole – E  
                   2 of 2-hole (2.375 dia) - R
- Series 62 & HSL 62  
                   4 of 2-hole (1.66" dia) - S  
                   12 of 3-hole – E  
                   2 of 2-hole (2.375 dia) - R

2. Attach 3-hole purlins to the coupler plates as required. Center bolt the purlins together using a 3/8" x 3 1/2" bolt and nut. *You may need to install the center bolt before tightening the 5/8" x 2" bolts.*

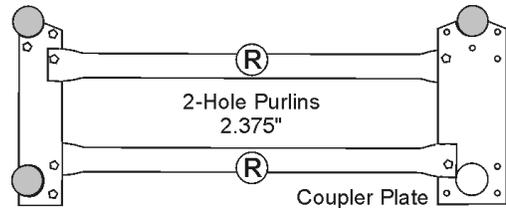
- Series 40 – 4 of 3-hole – X
- Series 50 – 4 of 3-hole – X
- Series 62 – none
- HSL 62 – 4 of 3-hole – X



- Series 62 and HSL 62.**  
Attach 2-hole (2.375" dia) ridge purlins to the top center coupler plates using the coupler plate bolts.

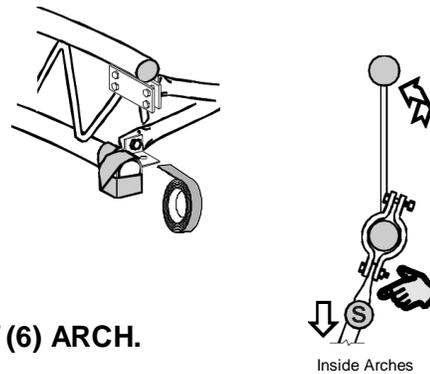


- Tighten all purlin bolts securely.**
- Wrap the end arch saddle brackets w/tabs with duct tape to protect the end wall fabric.



**E5. HOIST THE THIRD ARCH INTO POSITION**  
See Pages 17, 18, & 19 and Appendix E, Page 30 for purlin locations.

- Install the purlin brackets as required by repeating E 2, Page 11.
- Install the purlins as required by repeating E3, Page 11.



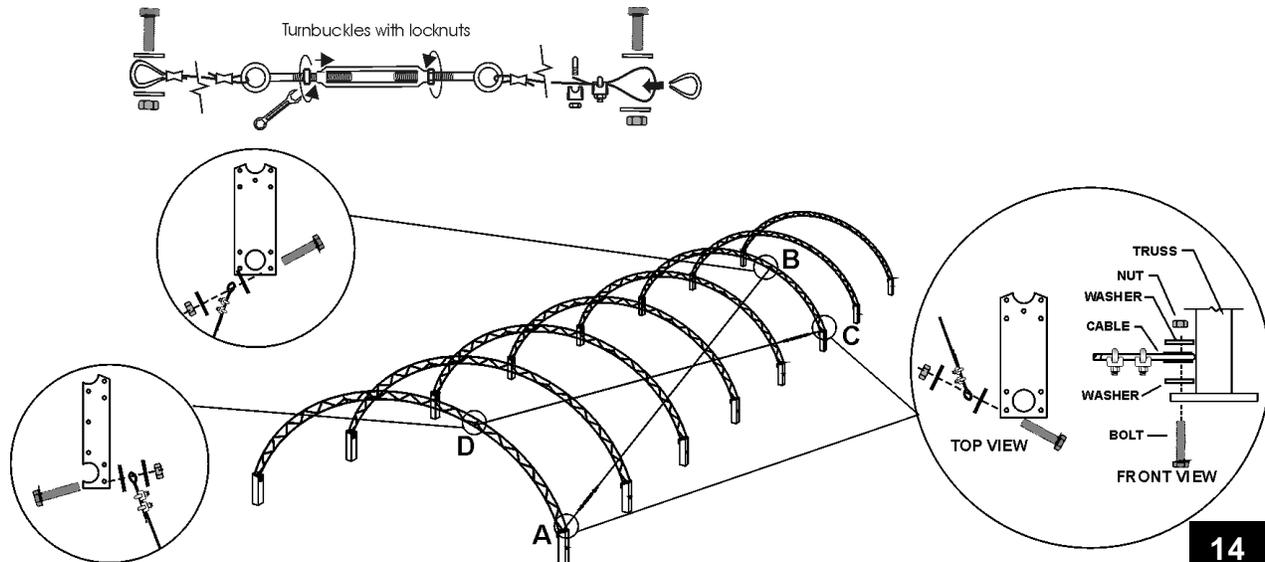
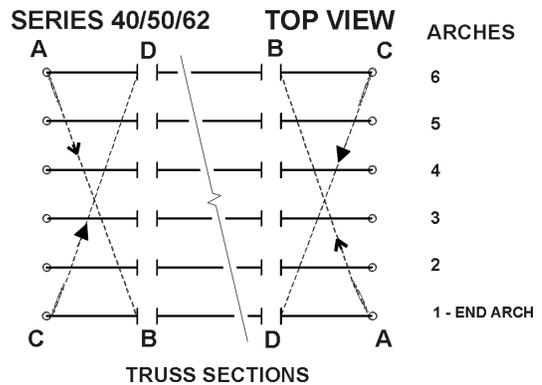
- Tighten all purlin bolts securely.**  
**40 / 50 – Tighten all coupler bolts securely.**

**E6. ERECT THE FOURTH (4), FIFTH (5) AND SIXTH (6) ARCH.**

- Repeat E4. **40 / 50 – Tighten all coupler bolts securely.**

**E7. INSTALL CROSS CABLES. (60' LONG)**

- Locate four (4) cross cables (3/16" x 60') - 2 for each side - with attached turnbuckles. Fasten the finished end of one cable to the base plate by securing it with a 5/8" x 2" bolt and 2 washers. Attach the other end to the truss as determined using thimbles, 2 cable clamps and 5/8" x 2" bolts/nuts/washers, Secure turnbuckle lock nuts or apply Loctite™.



2. Attach the other end of the cable to the first truss coupler of the sixth arch "B" by threading the cable through trusses 2, 3, 4 & 5 in a direct line. Adjust if cable appears to be misaligned. Secure this end of the cable by removing a coupler nut and installing a cable thimble between 2 washers and replacing the nut. Loop the end of the cable around the thimble and secure with a cable clamp. Retighten the nut.

**NOTE: 5' arch spacing buildings - attach in a direct line to the 11th arch.  
8' arch spacing buildings - attach in a direct line to the 7th arch.**

3. Attach the turn buckle end of a second cable to the base plate of the sixth arch "C" and thread the cable through the middle arches in a direct line to the first truss coupler on the end arch "D". Secure using a cable thimble, 2 washers and a cable clamp. The cables should cross between the third and fourth arch.
4. Repeat this procedure on the other side using two more cables. *See diagram.*
5. Tighten all turnbuckles so the cables are tight. Ensure that the building is square and rigid upon completion of this step.

**Hint: Depending on the amount of slack in the cable, there may not be enough adjustment to tighten the cables securely. If this occurs, release the turnbuckles and shorten the cable assembly.**

**NOTE: The cross cabled arches create a structural frame for the rest of the building.  
For buildings over 140' in length see Appendix B, Page 26.**

**E8. ERECT ALL REMAINING ARCHES.  
See Pages 17, 18, & 19 and Appendix E, Page 30.**

1. Repeat the process outlined in E4 until all remaining arches are erected. *Remember,* the last erected arch (the end arch) has the 1/2 coupler plates.
2. **End Arch** - requires saddle brackets w/tabs and tab web plates and a web plates. See E1, Step 2, Page 12. **End purlins** - repeat purlin installation in E3, Page 13.

**E9. SERIES 62 ONLY - INSTALL TRUSS CABLE ASSEMBLY – EVERY ARCH**

1. Locate the 5/16" x 48' long truss cables with attached turnbuckle (1 for each arch), u-shaped saddle brackets ( 2 for each arch), 7/16" x 3 1/2" bolts and nuts (2 for each arch) and 1/4" self-drilling bolts (4 for each arch).
2. Determine where to attach the truss cable for your building:

**In Canada: One snow load rating.**

See diagram next page.

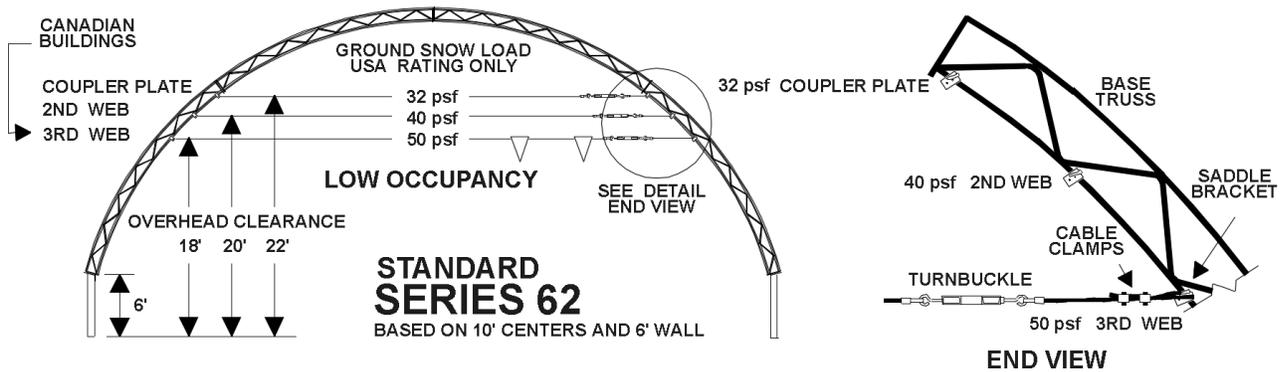
Attach a saddle bracket to the lower tube of each truss at the level marked "3rd Web" using a 7/16" x 3 1/2" bolt and nut. **Do not allow the bracket to use the weld as a stop.** Position the saddle brackets below the web weld or coupler plate and fasten to the truss tube by installing 2 self-drilling bolts through the predrilled holes on both sides of the saddle bracket. Attach a second saddle bracket to the same truss tube at the opposite side of the building in the same manner.

**In the USA: Choose one of 3 snow load ratings.**

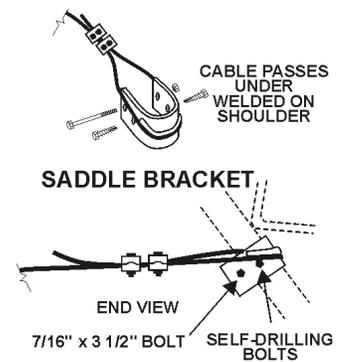
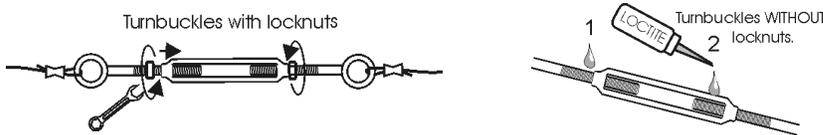
Attach a saddle bracket to the lower tube of each truss at the "coupler plate", 2nd web or 3rd web depending on the determined snow load rating for your area . Secure using a 7/16" x 3 1/2" bolt and nut. **Do not allow the bracket to use the coupler plate or any weld as a stop.** Position the saddle brackets below the web weld or coupler plate and fasten to the truss tube by installing two (2) 1/4" X 3/4" self-drilling bolts through the predrilled holes on both sides of the saddle bracket. Attach a second saddle bracket to the same truss tube at the opposite side of the building in the same manner.

**NOTE: USA Only – contact your local dealer for ground snow loads in your area. See Page 31 for snow load ratings for HSL Series 62 buildings.**

- Loop one end of the 5/16" truss cable around the saddle bracket under the welded on shoulder and secure using two (2) 5/16" cable clamps. Extend the cable to the other side of the building and attach that end around the saddle bracket on the same arch using two (2) 5/16" cable clamps.



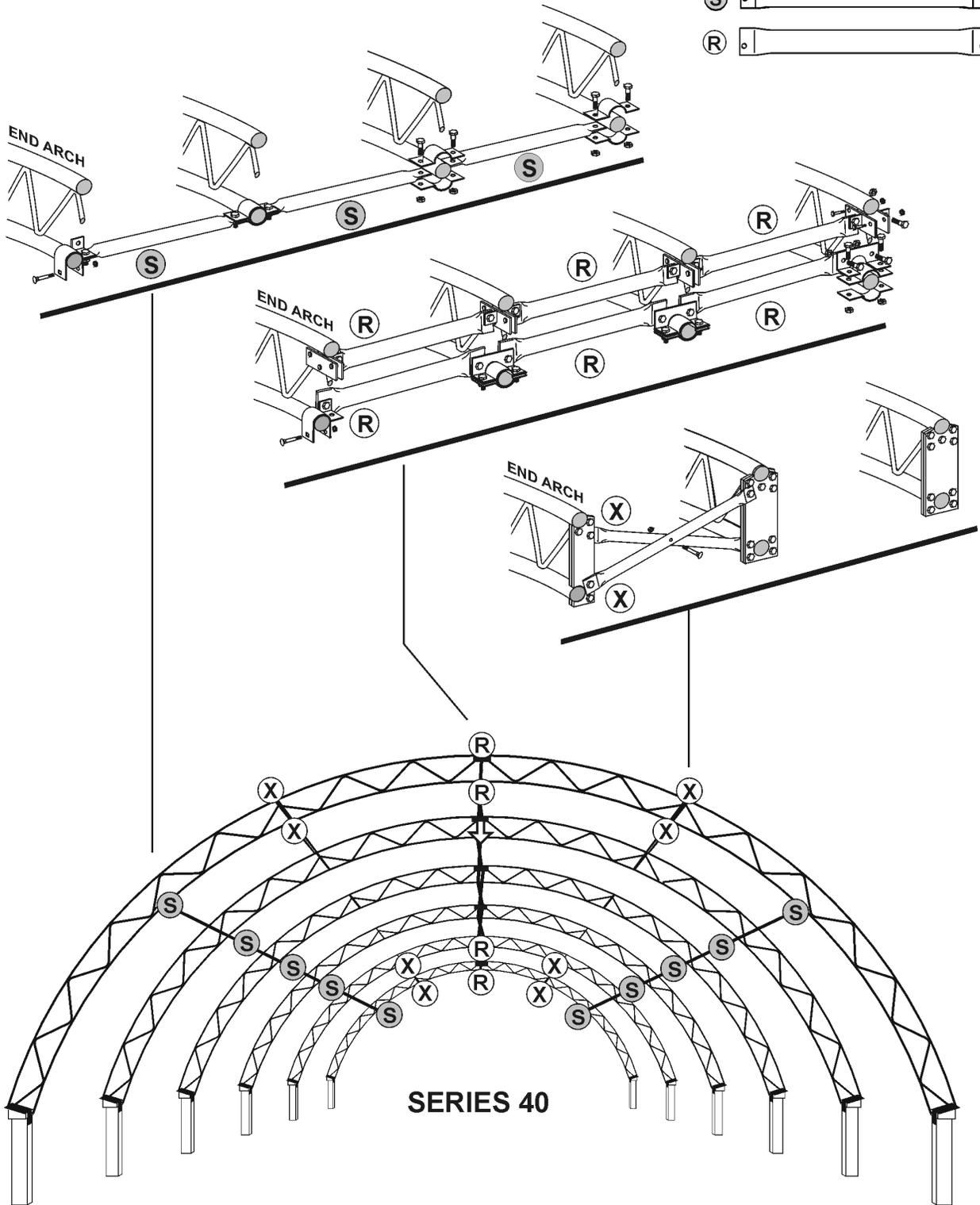
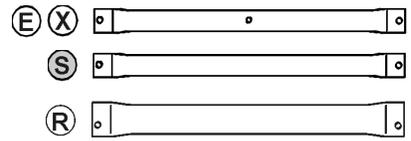
- Adjust the turnbuckle to tighten the cable. **Tighten the cable so it is straight and all the sag is removed.**
- Install a truss cable on every arch of the building. Secure turnbuckle lock nuts or apply Loctite™.



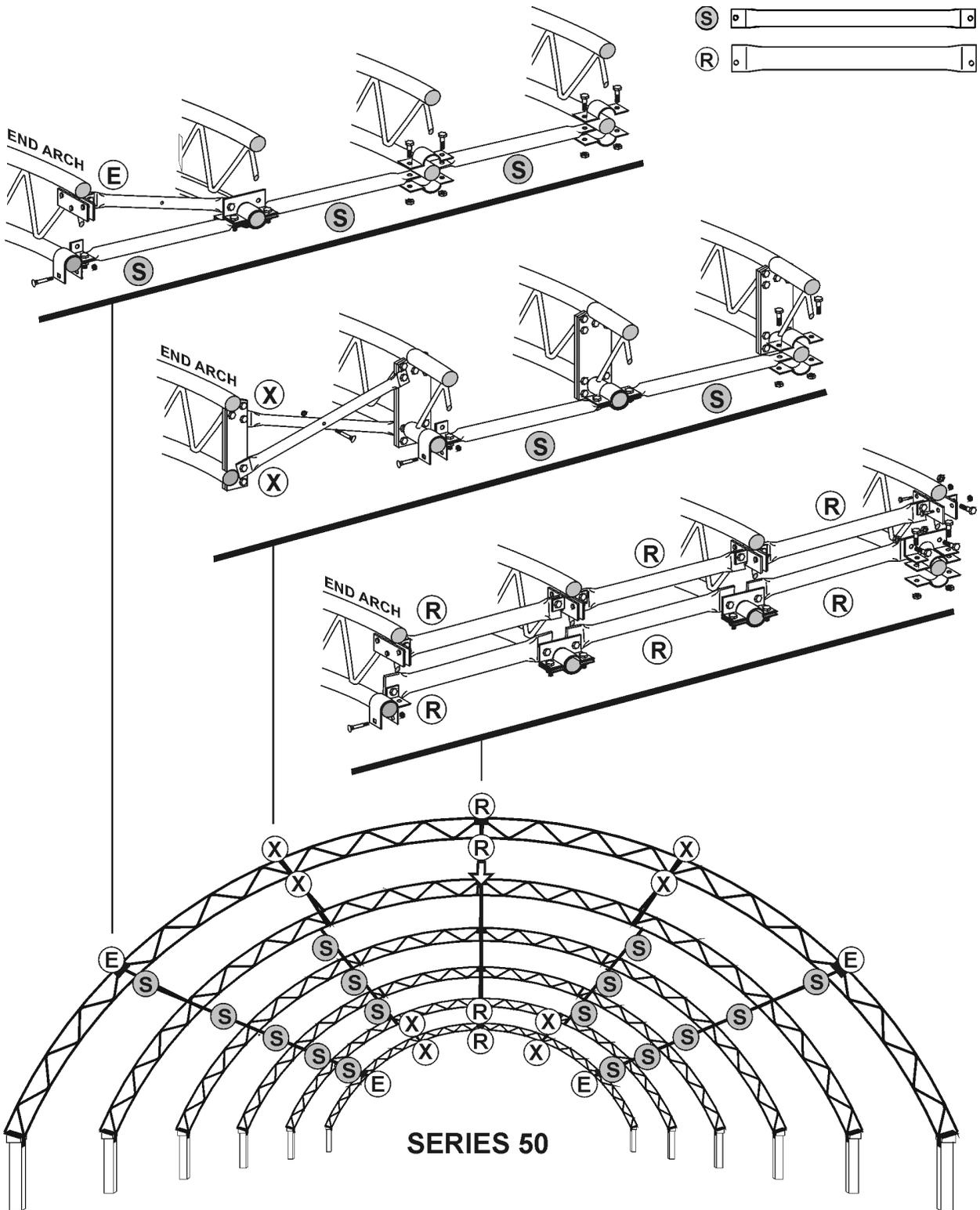
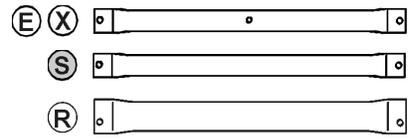
**Safety Hint:** Attach flags or markers to the cables so they are easily visible from the ground.

**WARNING: DO NOT ATTACH, OR SUSPEND, ANYTHING TO/FROM THE TRUSS CABLES EXCEPT THE FLAGS OR MARKERS. DOING SO WILL AFFECT THE STRUCTURAL INTEGRITY OF THE BUILDING AND WILL CAUSE WARRANTY TO BE VOID.**

# SERIES 40

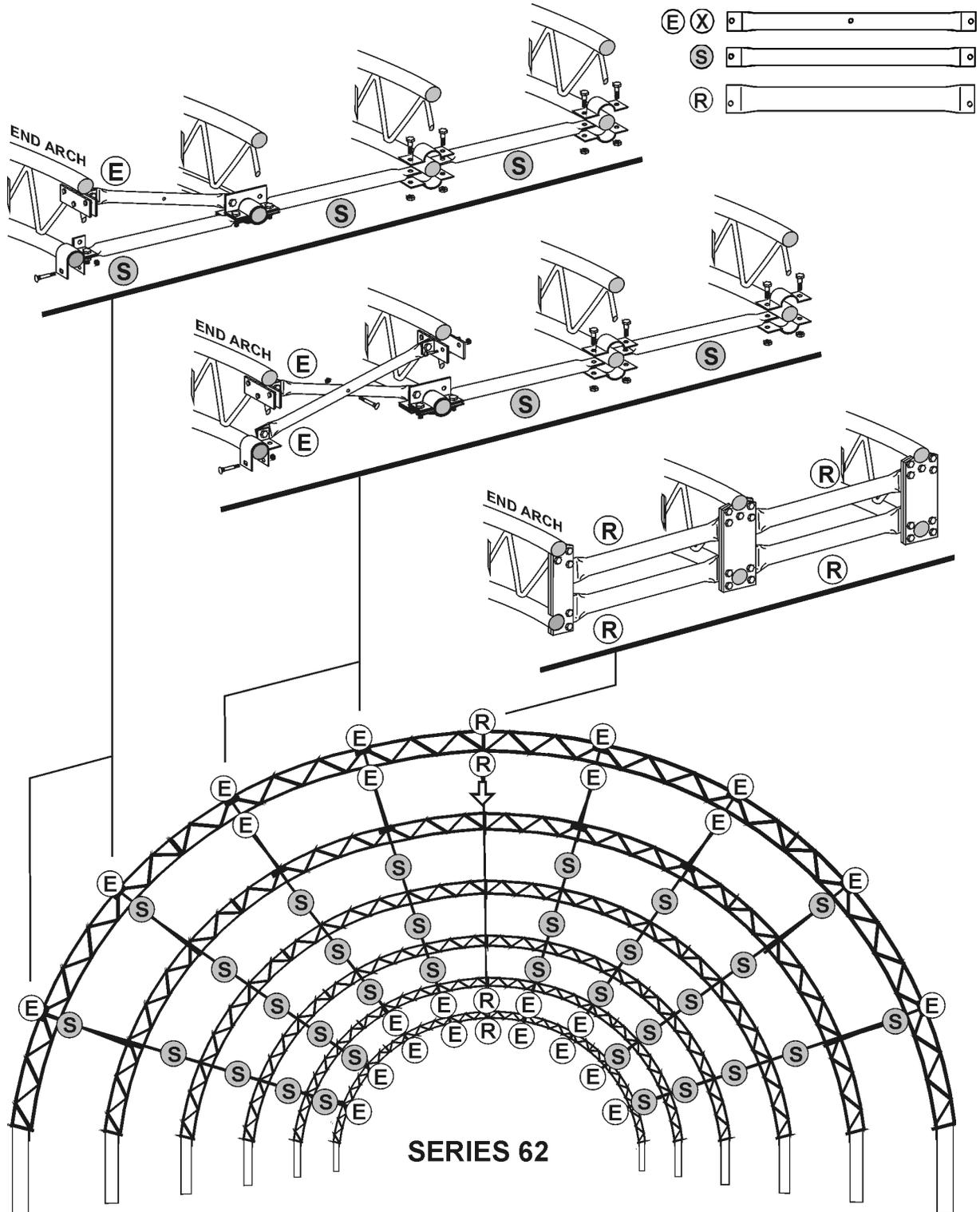


# SERIES 50



SERIES 50

# SERIES 62



## IMPORTANT

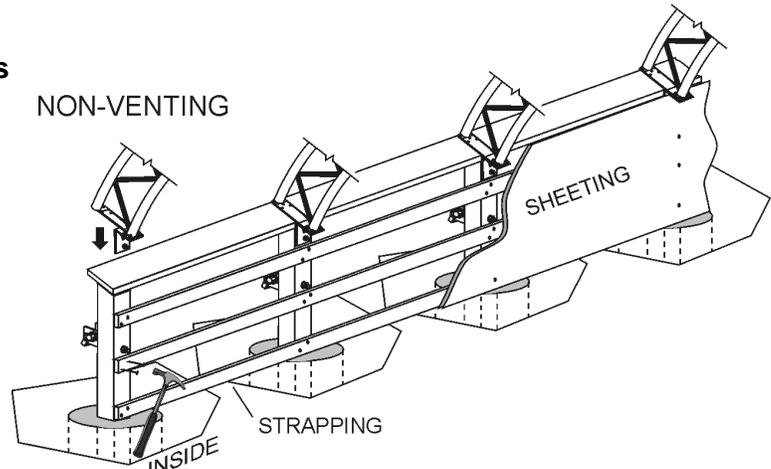
High Snow Load (HSL) Series 62 support purlin placement is different than the standard Series 62. See Appendix E, Page 30 for HSL Series 62 purlin placement.

## F - FINISHING THE SIDE WALLS

The following suggestions are the most commonly used. If either of these do not meet your requirements, please contact your Cover-All™ dealer. They can provide information that will allow you to meet your application without compromising the structural integrity of the building.

### Non-ventilation for Commercial or Storage Purposes

2" x 4" strapping and 4' x 8' plywood or OSB board (chipboard) You may want to use H-clips to join the sheets together.



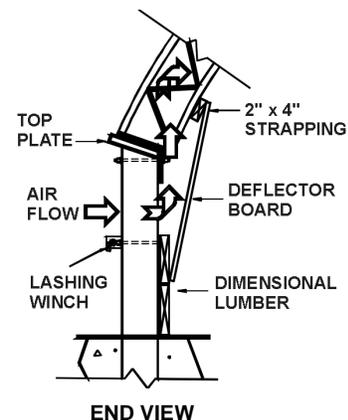
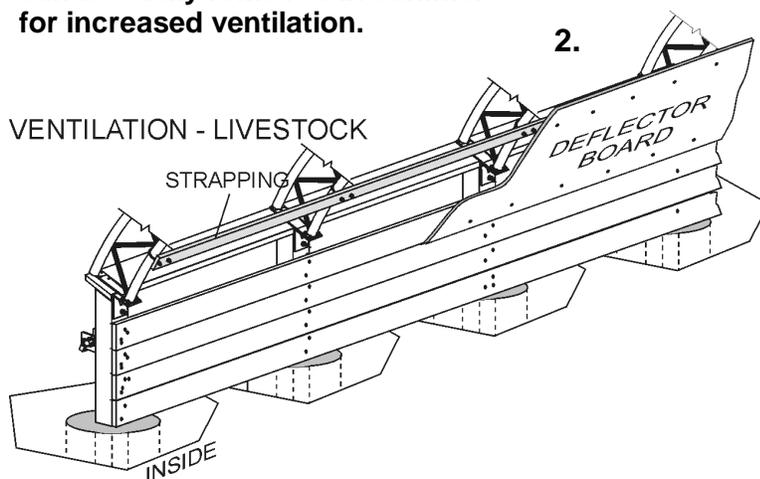
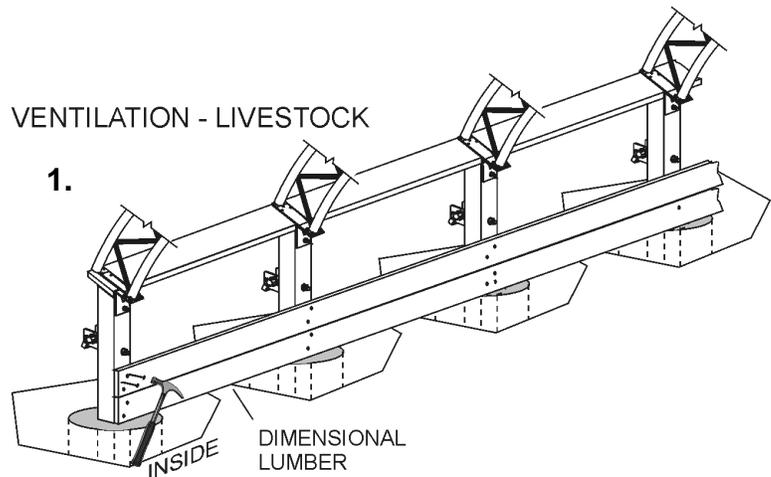
### Side ventilation for Livestock Purposes

Leave an open gap of 4" - 8" between the top plate and the dimensional lumber.

Fasten the 2" x 4" strapping to the arches approximately 2' above the top of the posts. Use u-bolts (not supplied).

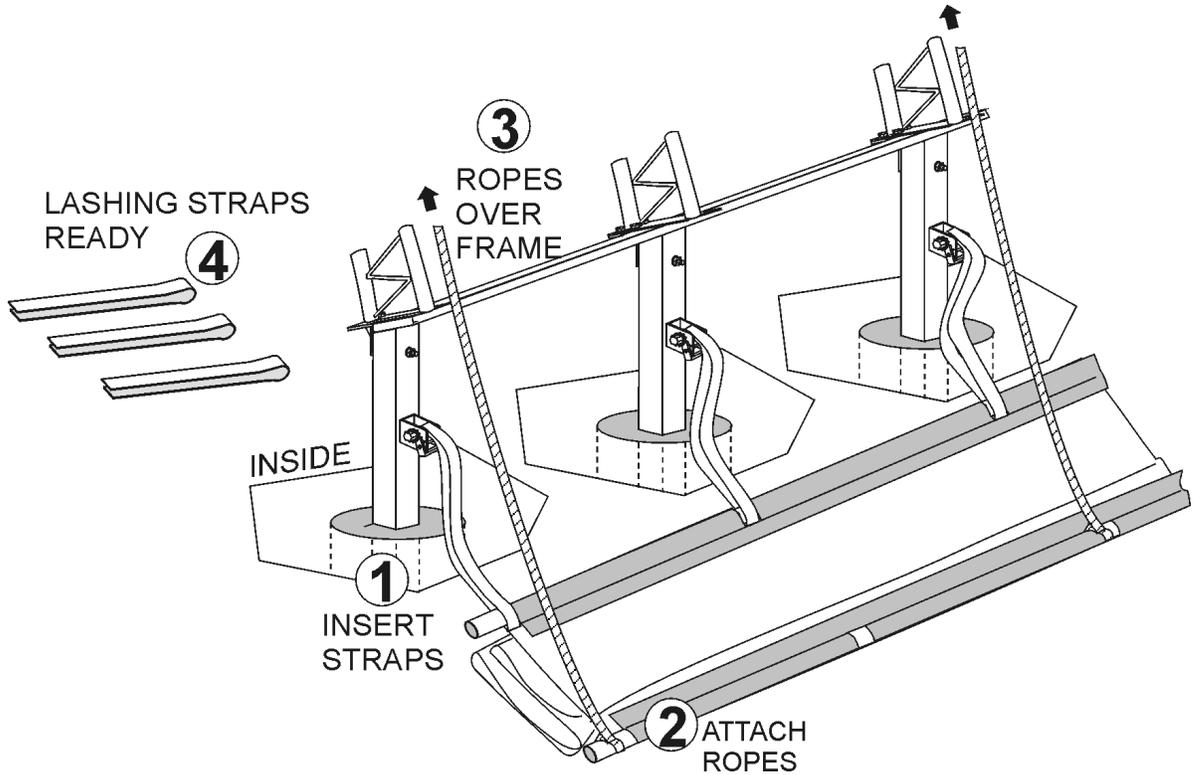
*The open gap determines the amount of air flow. Increase or decrease the gap according to your application, weather and wind conditions.*

**Hint: You may want to screw the deflector board pieces on so they can be easily removed in summer for increased ventilation.**





2. **On the opposite side of the cover** (the side of the cover that is furthest from the frame), tie several ropes, approximately 30 feet apart, to the steel fastening pipe through the notched hole. Throw the free end of the ropes over the frame to the opposite side of the building.



- CHECK LIST:** - **BEFORE** proceeding ensure that: the cover is **POCKET SIDE** up.
- All coupler plates, ridge purlins and purlin brackets have duct tape.
  - **BOTH** fastening pipes are in place.
  - Fastening straps are in the lashing winches.
  - Ropes are secured and passed over the frame.
  - No wind or there can be a light breeze (ideally from rope pulling side).

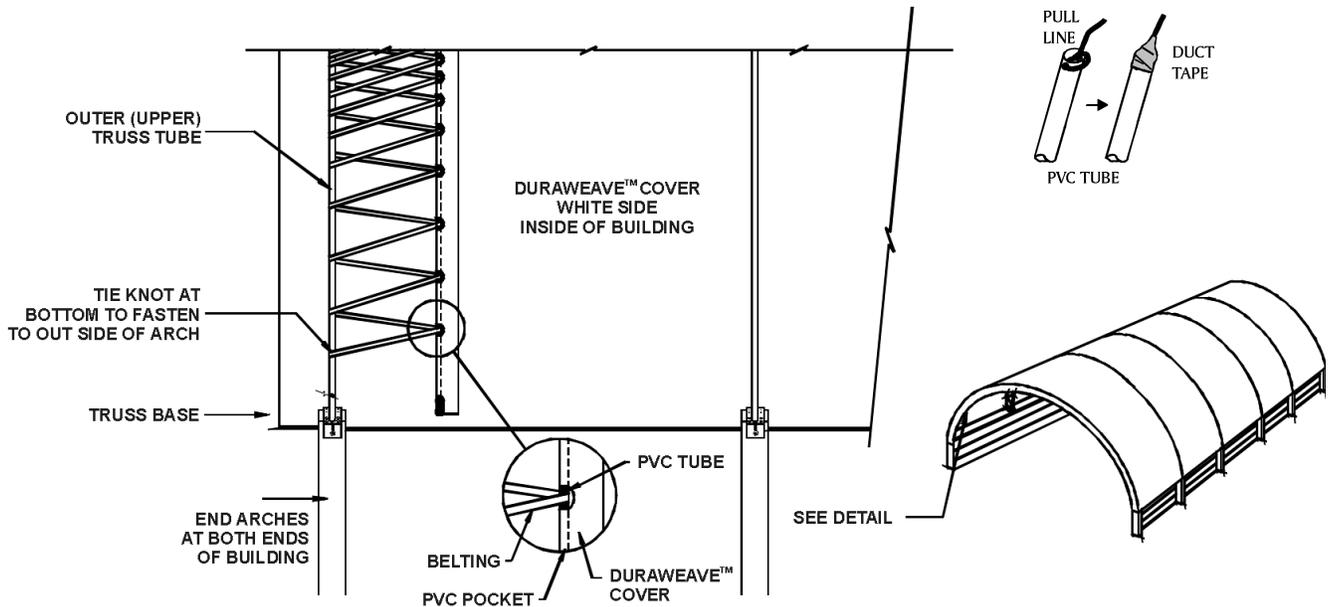
**WARNING:** *NEVER USE MOTORIZED EQUIPMENT (IE. VEHICLES, TRACTORS, TRUCKS) TO ASSIST IN PULLING THE COVER OVER THE FRAME. OBTAIN ADDITIONAL CREW MEMBERS IF REQUIRED.*

3. Pulling on the ropes **EVENLY**, **CAREFULLY** and **SLOWLY** pull the cover over the frame.
4. Install the fastening straps around the fastening tube and **loosely secure** in the lashing winches. **DO NOT TIGHTEN**. Adjust the cover so that it is square and evenly centered on the frame. *The end flaps should overhang evenly at both ends.*

**NOTE:** *DO NOT LEAVE THE COVER UNATTENDED UNDER ANY CIRCUMSTANCES until final assembly and tightening has been completed.*

# I - FINAL ASSEMBLY / TIGHTENING

1. Once the cover is on the frame and is sitting square and straight, visually check to ensure the cover extends approximately 12 inches on both ends of the building.
2. **Glue sections of PVC tubes** together (smooth end into bell end) to fit one PVC pocket.
3. If the PVC pockets have a pull line, drill a hole in the smooth end of the PVC tube and tie the pull line to it. Wrap this leading end with duct tape.



4. Push and pull the PVC through the pockets until the entire pocket contains the PVC tube. Repeat this step for the opposite end of the cover.

**Hint: PVC tubes should slide in easily. Do not force. Check for twisted fabric or misaligned pocket openings if you experience difficulty when installing the tube.**

5. Using the 1" belting provided and starting at the base, lace the belting around the PVC tube showing through the notches and then back to the top tube of the end arch all the way up to the top center of the building. Secure the belting to the top arch tube. Working your way down from the secured end, tighten the belting and tie at the base. Repeat this lace-up and tighten-down for the other side. The PVC tube should be parallel with the end arch all the way around.

6. Repeat Step 3 at the opposite end of the building using force to tighten down the belting. The DURAWEAWE® cover should be tight and secure from end to end when finished.

**Hint: Cut the belting after you have finished the tighten-down procedure and secured the end.**

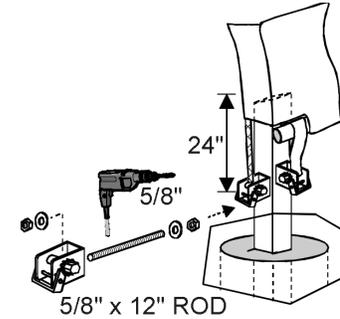
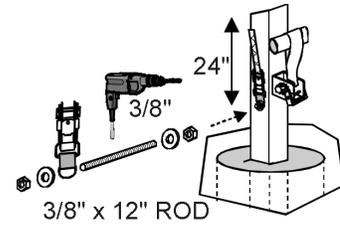
7. Tighten and secure the end flaps by first drilling a 3/8"+ hole in each of the 4 corner posts (A, B, C, & D) 2 feet (24") from the top of the post. *Measure from the inside edge of the post so that you drill below the threaded rod that holds the lashing winch.*

**Series 40 & 50** – Drill 3/8" and install a 3/8" x 12" threaded rod and attach an end flap ratchet through the D-ring using flat washer and nuts. Fasten securely. Cut off excess rod.

**Series 62** – Drill 5/8" and install a 5/8" x 12" threaded rod and attach a lashing winch using flat washers and nuts. Fasten securely. Cut off excess rod.

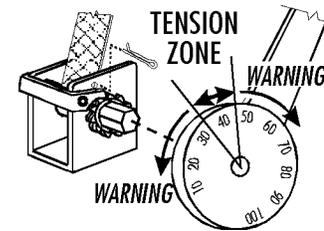
8. When all 4 ratchets/winches are installed, insert the end flap belting into the ratchets/winches and tighten both sides of the building's end flaps until the slack in the flap is gone. *Repeat this procedure for the opposite end of the building.*

9. It may be necessary to repeat the tightening several times at both ends of the cover. You may need to release the ratchet mechanism and pull the belting as tight as possible by hand before tightening on Series 40 & 50 buildings.



## J - TIGHTENING THE COVER

1. It is now safe to remove all ropes used to steady the frame and install the cover.
2. Tighten the fastening straps **EXCEPT THE END STRAPS** on both sides of the building using a torque wrench. Then tighten the end straps until the fastening pipes are level. The tension for the lashing winches on this building has been calculated at **35 - 45** ft. lbs. **DO NOT EXCEED 45** ft. lbs. *Use a torque wrench.* The DURAWEAWE® cover should be snug and secure from side to side when finished.

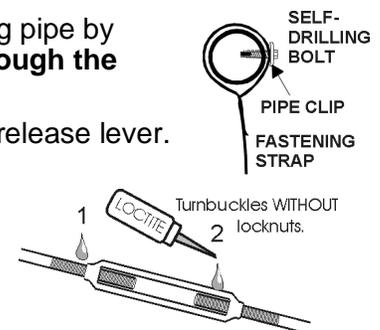
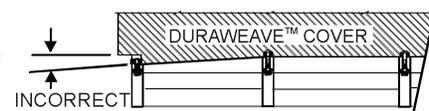


3. **IMPORTANT FINAL STEPS**

- **Secure** the outside (end) fastening straps (4) to the fastening pipe by using pipe clips and 1/4" self-drilling bolts. Install the bolts **through the fastening strap** into the fastening pipe.

- **Install** a cotter pin in the lashing winch pilot hole to lock the release lever.

- **Turnbuckles without lock nuts** - **Apply** Loctite™ 242 or 243 Medium strength (blue) Threadlocker (or equivalent) according to the manufacturer's directions, on the engaged threads of every turnbuckle. **IF FOR ANY REASON THE TURNBUCKLE NEEDS TO BE READJUSTED ALWAYS REAPPLY LOCTITE™.**



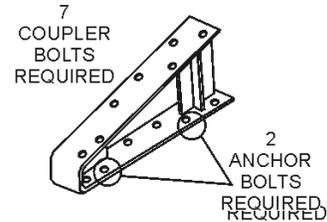
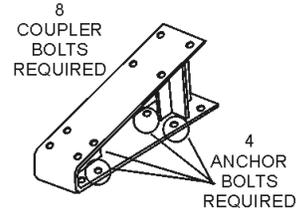
**NOTE: Failure to secure the corner fastening straps to the pipe could result in possible damage to the cover.**

## APPENDIX A

# GROUND MOUNT BOOT INSTALLATION

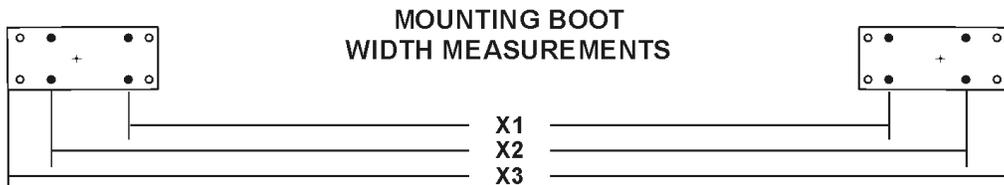
**The mounting boot attaches to the arch to create a flat base that allows the building to be mounted on a horizontal surface. It is the responsibility of the owner/installer to ensure that the mounting surface will adequately support the building.**

- 1. COMPONENTS** – supplied
  - a. Mounting boots (2 per arch).
  - b. Half mounting boots for end arches (4 per building)
  - c. 5/8" x 2" base plate bolts and nuts to secure the boots to the arches (full coupler plate – 16 per arch; half coupler plate – 14 per arch).
- 2. MATERIALS REQUIRED** - not supplied.
  - a. 5/8" anchor bolts. Eight (8) for each inside arch. Four (4) for each end arch.



### 3. SITE PREPARATION / FOUNDATION PLACEMENT

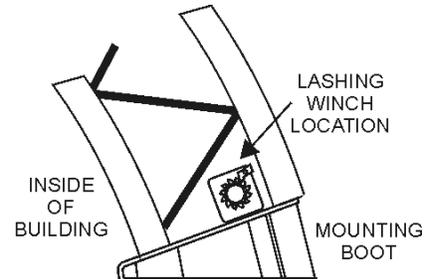
- a. Follow Section A of this manual using the appropriate measurement from the chart below.



|           | <b>40'</b> | <b>50'</b> | <b>62'</b> |
|-----------|------------|------------|------------|
| <b>X1</b> | 38' 2 1/4" | 48' 3 3/4" | 60' 3 1/4" |
| <b>X2</b> | 39' 5 1/8" | 49' 6 5/8" | 61' 6 1/8" |
| <b>X3</b> | 40' 1 1/4" | 50' 2 3/4" | 62' 2 1/4" |

### 4. INSTALLING THE BOOTS

- a. Before installing the arches, fasten the boots to both bases of every arch using 5/8" x 2" bolts and nuts (supplied).
- b. Mount a lashing winch to one outside bolt on each arch base.



### 5. COMPLETE THE INSTALLATION

- a. Follow this manual from Section "D" Page 10 with the following exception:

**Section E – DO NOT TIGHTEN ANCHOR NUTS FULLY on the first 3 arches as they are installed.** Wait until all the purlins have been installed in these 3 arches and the arches are braced square. **THEN** tighten the anchor nuts on these arches. **Tighten the anchor nuts fully** on the remaining arches **as they are installed.**

## APPENDIX B

# BUILDINGS OVER 140' IN LENGTH

Multiple covers are provided for buildings over 140' in length.

This enables ease of onsite handling and installation.

Normally covers are supplied in equal or near equal lengths. The longest cover length is 140'.

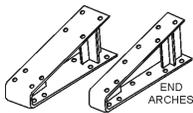
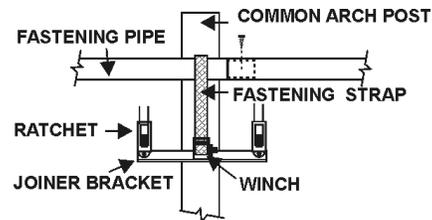
*Eg. - a 150' building with 10' spacing is supplied with one 70' and one 80' cover.*

### 1. FOUNDATION

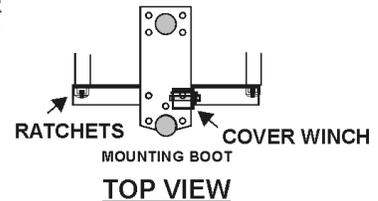
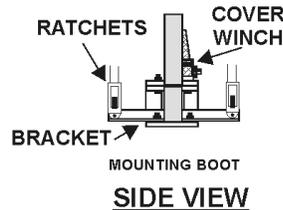
- a. Foundation spacing (running measurement) is the same for the entire length of the building. (the covers share a common arch). *Eg. - 150' building on 10' centers has 16 piles/posts on each side.*

### 2. JOINER BRACKET INSTALLATION

- a. Install a joiner bracket to the common arch post. The bracket installs under the lashing winch on the threaded rod. Add an end flap ratchet to each end of the bracket using 5/8" x 2" bolts and nuts.

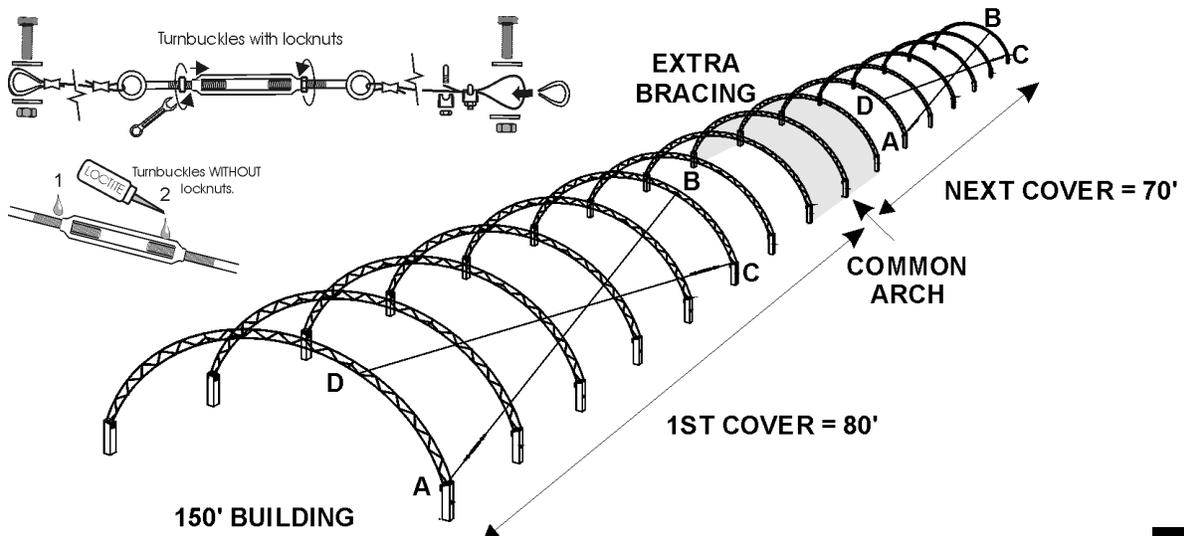


If your building uses the mounting boot the joiner bracket mounts to the anchor bolts.



### 3. CROSS CABLE INSTALLATION

- a. Buildings over 140' require 4 sets of 3/16' x 60' cross cables. Install 2 sets of cross cables at each end of the completed building.



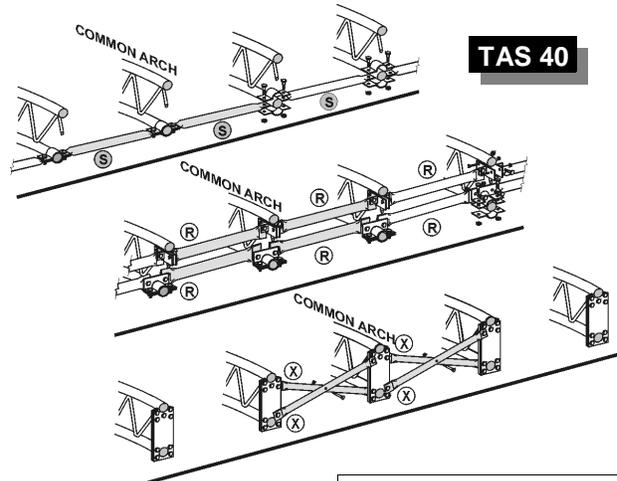
4.

### EXTRA BRACING

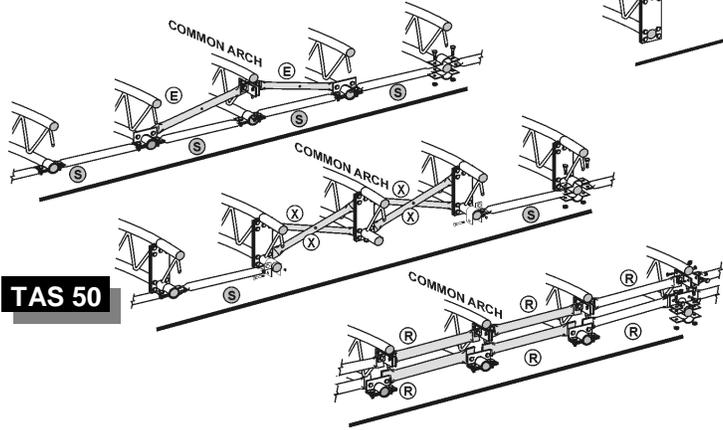
Extra bracing is added to 2 bays, one on each side of the common arch.

**THE COMMON ARCH IS ALWAYS WHERE THE COVERS JOIN.**

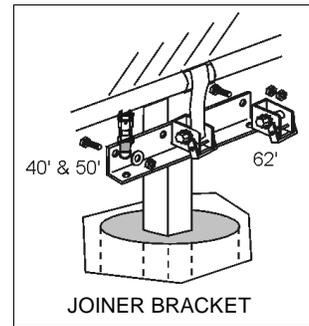
- a. Add extra purlin bracing according to your building. Typically this bracing duplicates the end bay bracing.



TAS 40



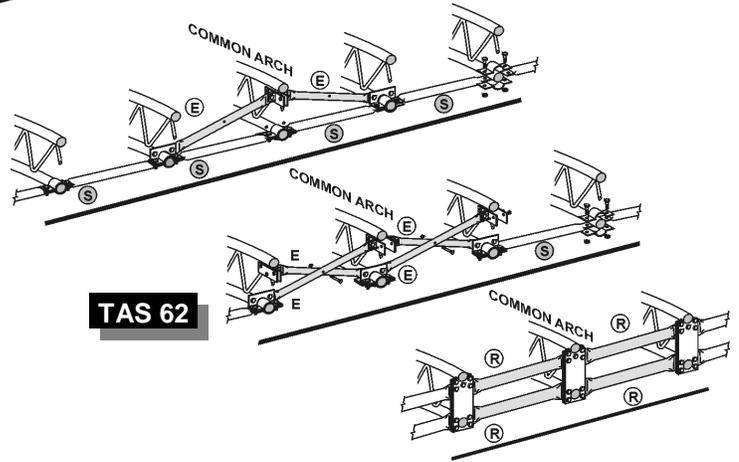
TAS 50



5.

### COVER INSTALLATION

- a. Install the first cover as directed in Sections G, H and I (Pages 21-24), **except that**: the end flap on the common arch is *not* secured at this time, flip the end flap back and out of the way; the joiner bracket is installed under the lashing winch; and the end flap ratchets or lashing winches are secured to the joiner bracket.
- b. Install the next cover in the same manner, *lacing the PVC tube to the common arch*. Do not tighten the lashing winches of this cover at this time.
- c. Release the fastening strap in the end arch winch of the first building. Insert the swaged fastening pipe sleeves to join the fastening pipe of both covers and secure with 1/4" X 3/4" self-drilling bolts. Place the fastening strap over the sleeve and re-install the end fastening strap in the winch. Retighten this lashing winch and tighten all of the winches of the next cover. See Section J, Page 24 for torque specifications.
- d. Place the end flap of the first cover over the next cover's lacing (see note). Attach the belting for this first (inner) end flap to the ratchets. Tighten the ratchets.



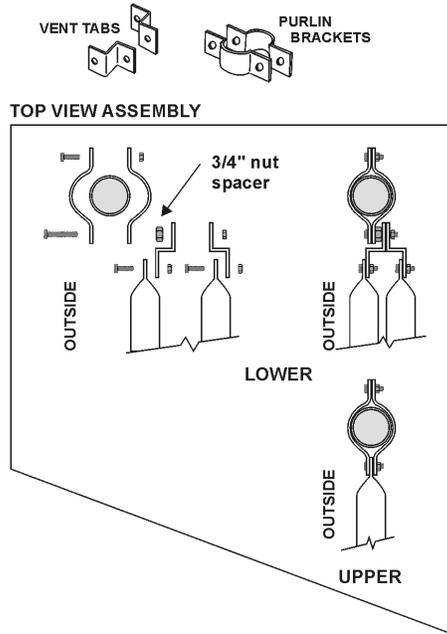
TAS 62



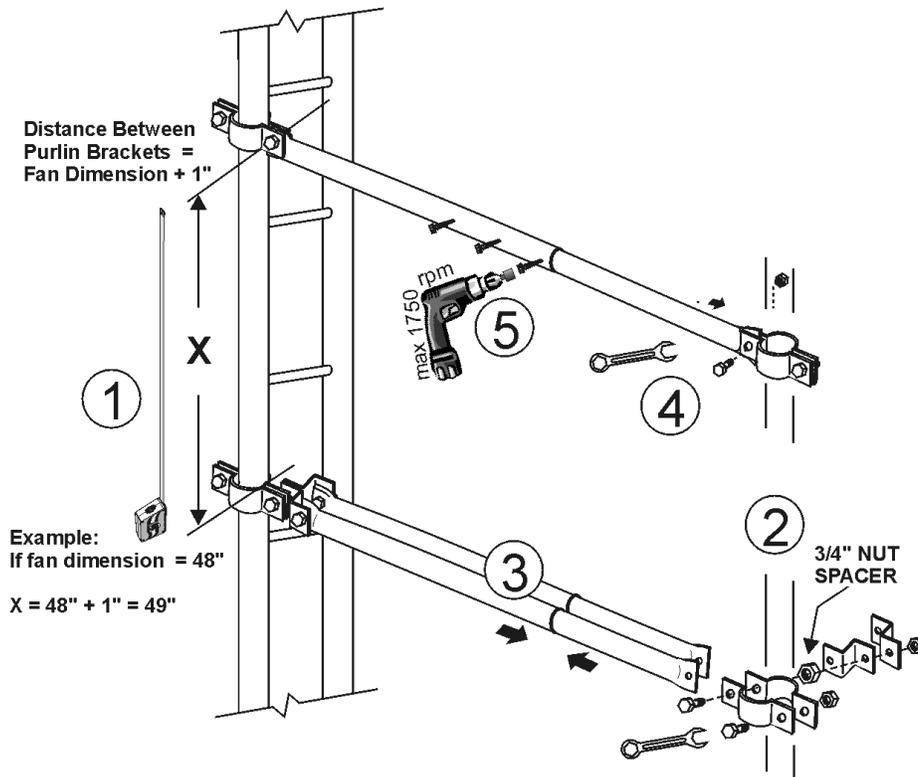
# APPENDIX D

## VENT FRAME

1. Measure and mark purlin bracket locations according to the fan housing vertical dimension.
2. Attach the lower purlin brackets and vent tabs to the outside ESS verticals using one 5/8" x 2" bolt/nut and one 5/8" x 3" bolt/nut. Place a 3/4" nut spacer between the bracket and vent tabs.



- Attach the upper purlin brackets to the outside ESS verticals using 5/8" x 2" bolts/nuts.
3. Sleeve the horizontal tubes and lift into position.
  4. Secure the horizontal tubes to the vent tabs using 5/8" x 2" bolts/nuts.
  5. Install 3 of 1 1/4" x 3/4" Tek screws at each horizontal sleeve.

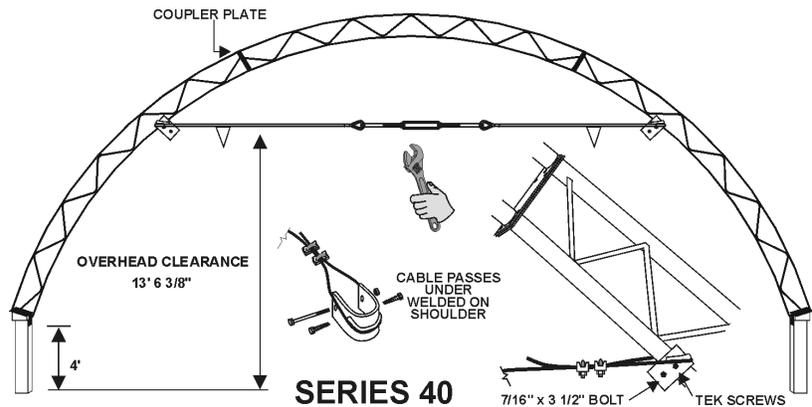


## APPENDIX E – USA Buildings Only

### HSL SERIES 40

#### HIGH SNOW LOAD BUILDING

Install 5/16" truss cable assemblies at the locations shown following the instructions from Section E9 on page 15 of this manual.



### HSL SERIES 50

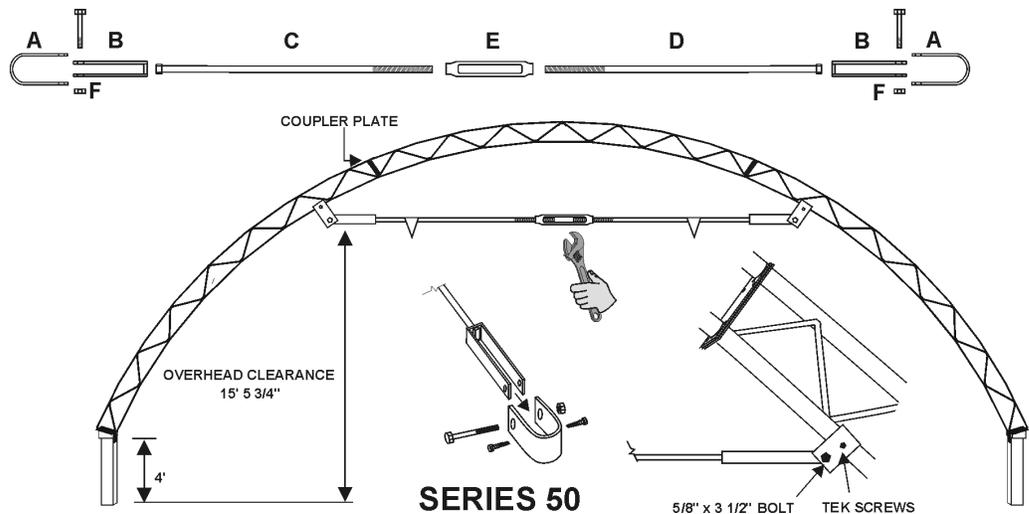
INSTALL TIE RODS BEFORE ERECTION. SUPPORTED END ARCHES, WITH AN END WALL, DO NOT REQUIRE TIE RODS.

#### HIGH SNOW LOAD BUILDING

1. Attach a saddle w/ 11/16" holes to trusses as shown on **all unsupported arches**.
2. Assemble the tie rods, clevis and turnbuckle on the ground, in position to the arch.
3. Attach both clevis to the saddles using a 5/8" x 3 1/2" bolts/nuts and tighten securely.
4. **Leave the tie rod assembly slack – DO NOT TIGHTEN . Erect the arches and install all purlins and cables before proceeding.**

5. **After erection is complete,** tighten the turnbuckle until the tie rod is straight and the turnbuckle can no longer be turned.

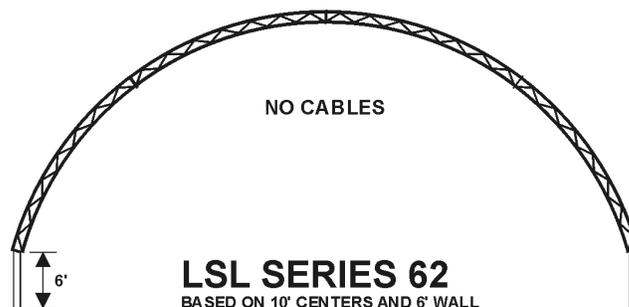
**NOTE:  
DO NOT ATTACH  
OR SUSPEND  
ANYTHING FROM  
THE TIE RODS  
EXCEPT FLAGS  
OR MARKERS.**



### LSL SERIES 62

#### LOW SNOW LOAD BUILDING

No truss cables.



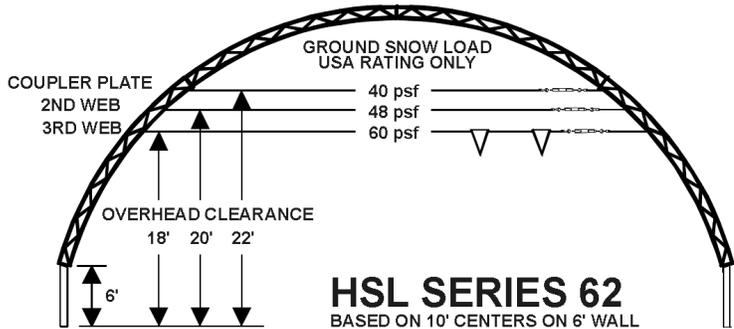
# HSL SERIES 62

## HIGH SNOW LOAD BUILDING

See following page for HSL Series 62 purlin placement.

### TRUSS CABLE INSTALLATION

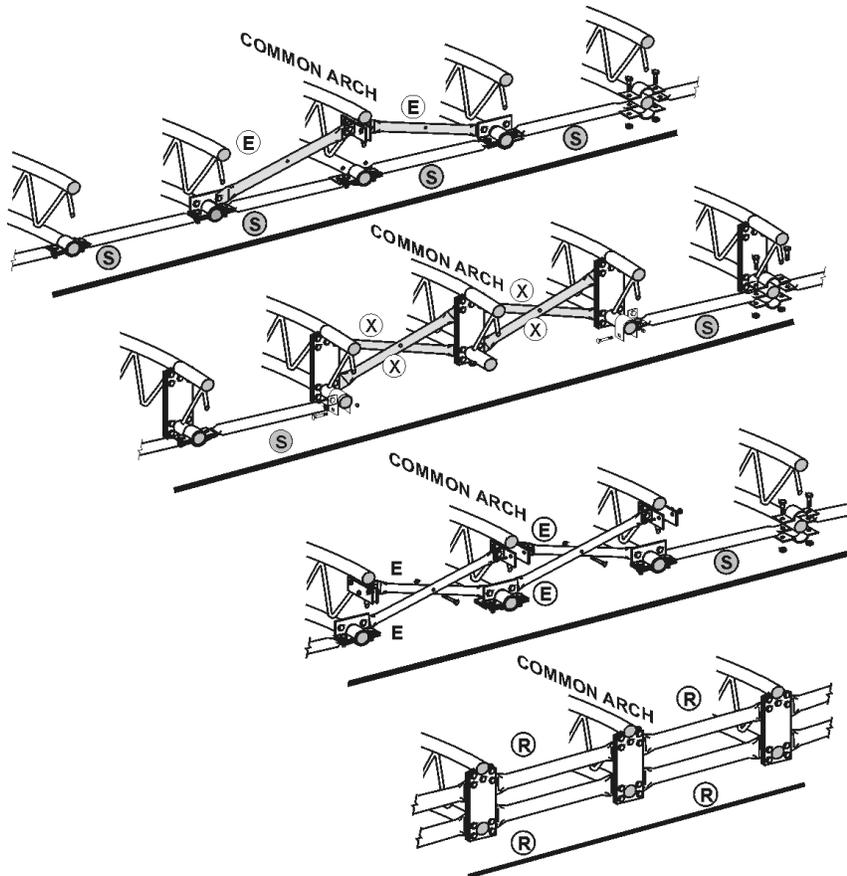
Determine where to attach the truss cable. The placement of the cable determines the overhead clearance and ground snow load capacity for your building. In the lowest position the load rating is the greatest.



**NOTE:** Contact your local dealer for ground snow load requirements in your area.

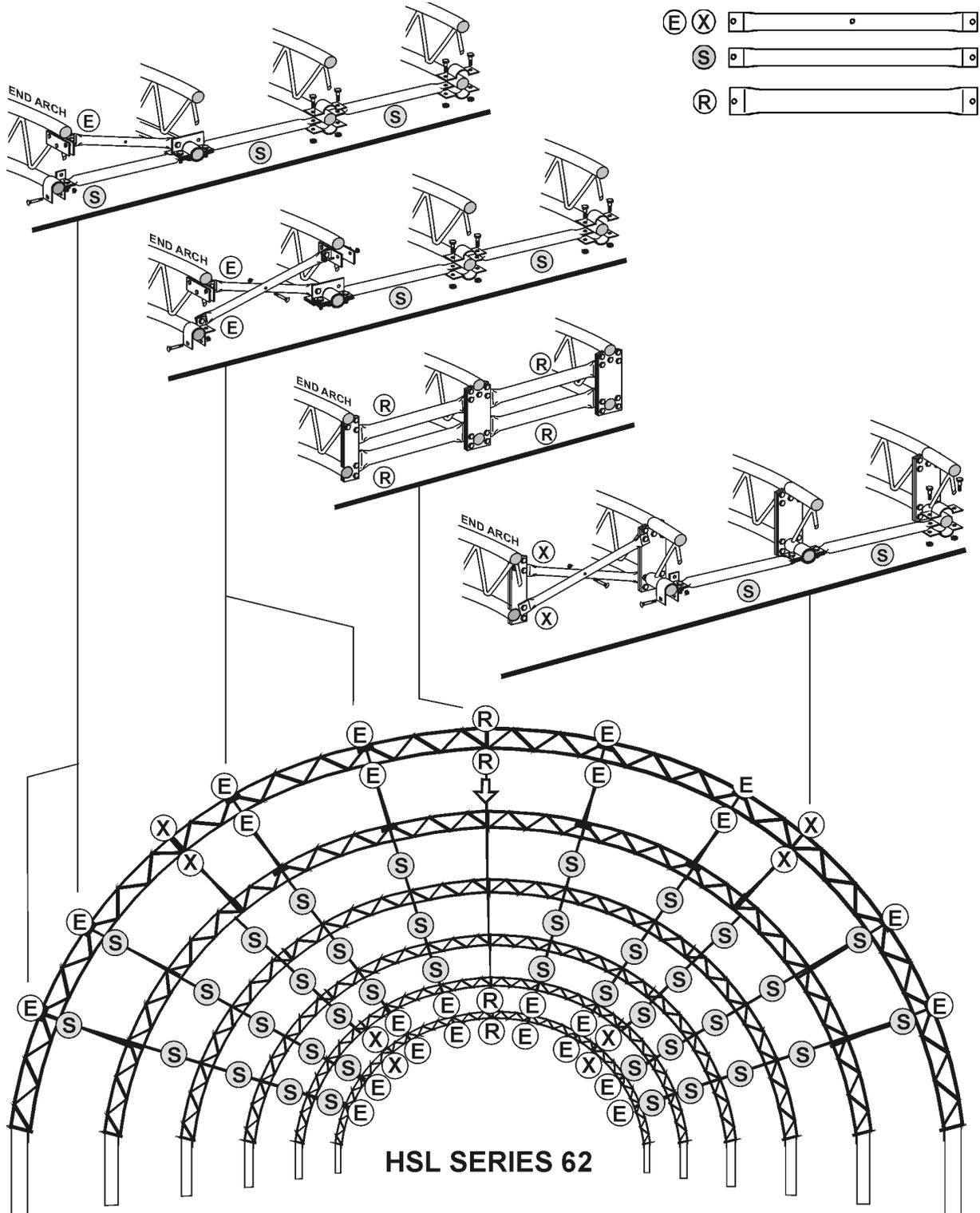
### EXTENDED BUILDING EXTRA BRACING

See BUILDINGS OVER 140', Appendix B, Page 26 for details.

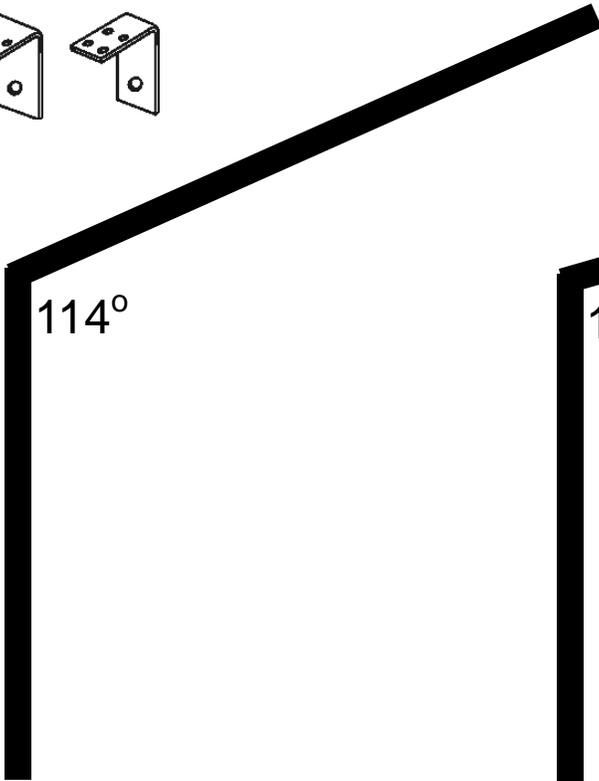
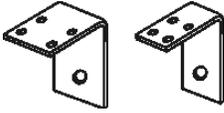


# HSL SERIES 62

HSL SERIES 62 HIGH SNOW LOAD BUILDINGS REQUIRE PURLIN PLACEMENT EXACTLY AS SHOWN.

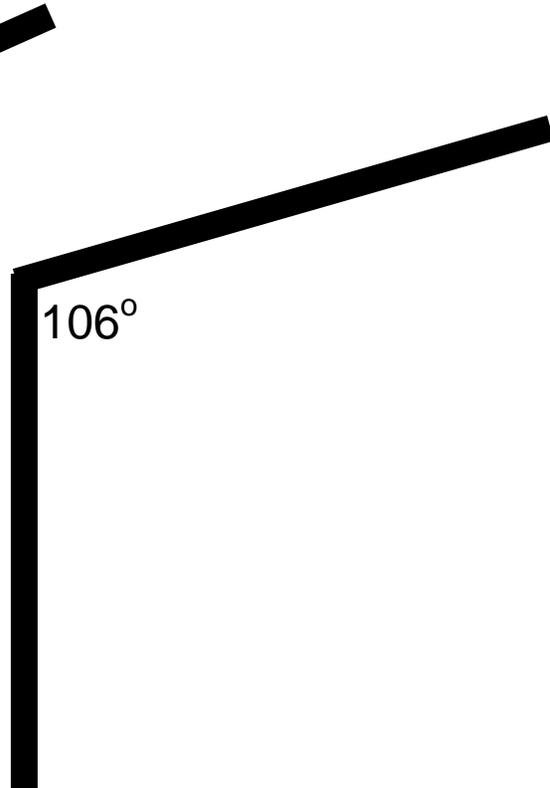


# T-BEVEL SETTINGS



114°

SERIES  
50



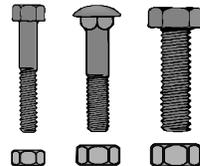
106°

SERIES  
40 & 62

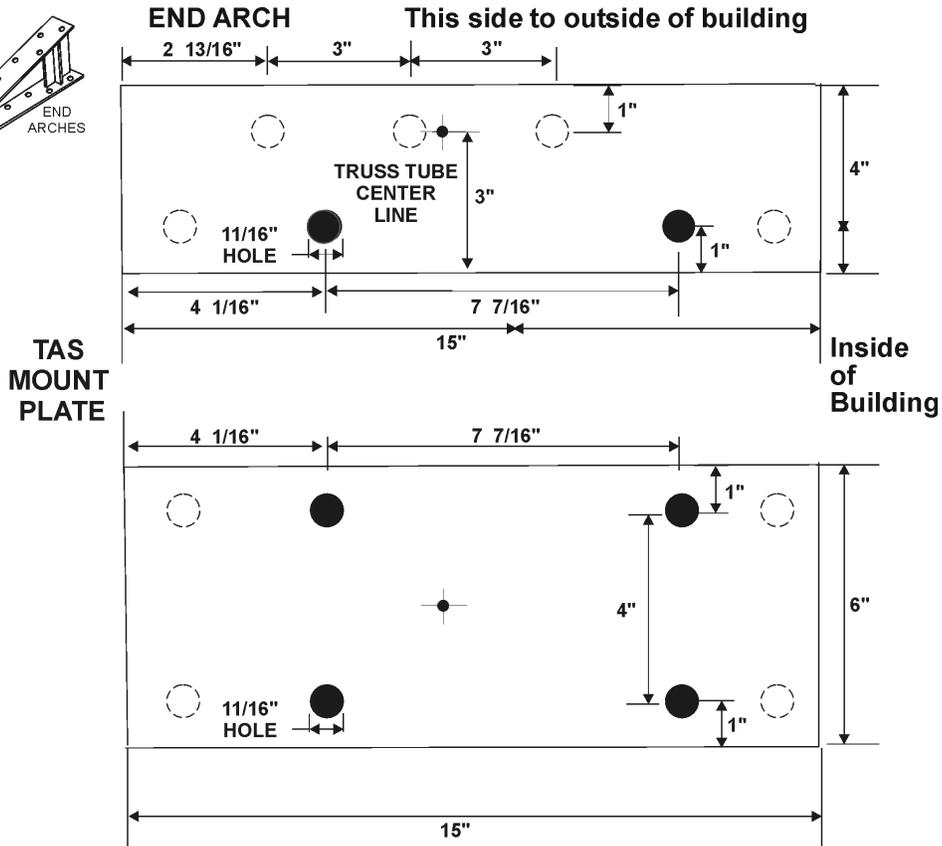
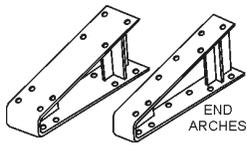
# TORQUE VALUES

## SUGGESTED ASSEMBLY TORQUE VALUES FOR STRUCTURAL BOLTS

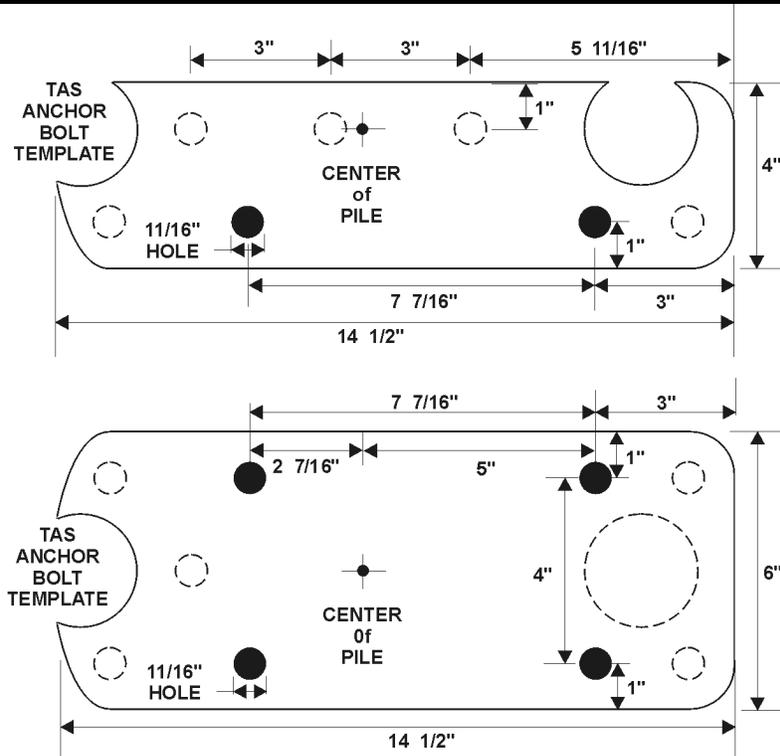
| SIZE<br>DIA (INCH) | THREADS<br>PER INCH | GRADE 5<br>ft - lbs |     |
|--------------------|---------------------|---------------------|-----|
|                    |                     | DRY                 | WET |
| 3/8                | 16                  | 30                  | 23  |
| 7/16               | 14                  | 50                  | 35  |
| 1/2                | 13                  | 75                  | 55  |
| 5/8                | 11                  | 150                 | 110 |
| 3/4                | 10                  | 260                 | 200 |
| 1 1/4              | 7                   | 1120                | 840 |



# BOOT TEMPLATE



# COUPLER TEMPLATE



## LIMITED WARRANTY DURAWEAVE® AND DURAWEAVE® FR ("FIRE RETARDANT")



### BUILDING SYSTEMS

#### 1. Scope of Limited Warranty

Only the DURAWEAVE® and DURAWEAVE® FR cover, end enclosure and DURATRAC and DT/LS fabric portion of the Cover-All™ building described in this agreement are warranted to the original Customer/Purchaser against deterioration that hampers the effectiveness of the cover caused by UV rays, hail and to be free of defects in materials and workmanship under normal use. This warranty shall be effective only if and when a) Cover-All™ Building Systems has received a completed warranty registration within 60 days after installation of the Cover-All™ building; and b) Cover-All™ Building Systems receives notice of such defect during the period of the warranty. Replacement of the cover and/or end enclosure or any components thereof (the "Warranted Parts"), supplied under this warranty may be new, used or repaired, at the option of Cover-All™ Building Systems. The Customer's/ Purchaser's sole remedy shall be such repair or replacement as is expressly provided above. Any Warranted Parts of the Cover-All™ building repaired or replaced under this warranty are subsequently warranted only for the remaining unexpired portion of the warranty period applicable to the original product. If Cover-All™ Building Systems elects to repair or replace the defective product or component, Cover-All™ Building Systems shall have a reasonable time to do so.

#### DURAWEAVE® Main Building Cover Warranty

The DURAWEAVE® cover is warranted, under normal use and maintenance in accordance to the instruction manual, to the original Customer/Purchaser for a period of 15 years following the original date of purchase. In the event that the DURAWEAVE® cover needs to be replaced, the Customer/Purchaser would be held responsible for the cost at 1/15 or 6.66% of the current retail price for each year following the original date of purchase. In the event that the DURAWEAVE® cover needs to be repaired, the cost of the repair will be prorated by Cover-All™ Building Systems. A cover repaired under this warranty is subsequently warranted for only the unexpired portion of the original warranty period. The replacement cover, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer.

#### DURAWEAVE® FR ("Fire Retardant") Main Building Cover Warranty

The DURAWEAVE® FR cover is warranted, under normal use and maintenance in accordance to the instruction manual, to the original Customer/Purchaser for a period of 10 years following the original date of purchase. In the event that the DURAWEAVE® FR cover needs to be replaced, the Customer/Purchaser would be held responsible for the cost at 1/10 or 10% of the current retail price for each year following the original date of purchase. In the event that the DURAWEAVE® FR cover needs to be repaired, the cost of the repair will be prorated by Cover-All™ Building Systems. A cover repaired under this warranty is subsequently warranted for only the unexpired portion of the original warranty period. The replacement cover, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer. DURAWEAVE® and DURAWEAVE® FR ("Fire Retardant") End Enclosure Warranty. The DURAWEAVE® and DURAWEAVE® FR end enclosures are warranted, under normal use and maintenance in accordance with the instruction manual, to the original Customer/Purchaser for a period of 3 years following the original date of purchase.

**FIRST YEAR:** Should the end enclosure be found to have manufacturer defects within the first year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced at no cost to the Customer/Purchaser except for delivery costs of the Warranted Parts to the Customer/Purchaser, which shall be the sole responsibility of the Customer/Purchaser.

**SECOND YEAR:** Should the end enclosure be found to have manufacturer defects within the second year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced. The Customer/Purchaser shall be responsible for thirty-three (33%) percent of the repair or replacement costs plus the cost of delivery of the Warranted Parts to the Customer, which shall be the sole responsibility of the Customer/Purchaser.

**THIRD YEAR:** Should the end enclosure be found to have manufacturer defects within the third year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced. The Customer/Purchaser shall be responsible for sixty-six (66%) percent of the repair or replacement costs plus the cost of delivery of the Warranted Parts to the Customer/Purchaser, which shall be the sole responsibility of the Customer/Purchaser.

#### DURATRAC and DT/LS DURAWEAVE® and DURAWEAVE® FR ("Fire Retardant") Door Fabric Warranty

The DURATRAC and DT/LS DURAWEAVE® and DURAWEAVE® FR door fabric is warranted for one year, under normal use and maintenance in accordance with the instruction manual, to the original Customer/Purchaser; the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced at no cost to the Customer/Purchaser except for delivery costs of the Warranted Parts to the Customer/Purchaser which shall be the sole responsibility of the Customer/Purchaser. The warranted parts, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer.

This warranty contains the sole expressed warranty of Cover-All™ Building Systems. There are no other warranties, expressed or implied. This warranty is made in lieu of any implied warranties of merchantability or fitness for a particular purpose. Specifications and warranties are applicable to units sold in Canada, the United States, its territories and possessions, and may vary outside these areas.

#### 2. Limits and Release of Liability

This warranty does not apply to defects or damage resulting from a) installation that is improper and/or not in accordance with the instruction manual; b) improper or inadequate maintenance; c) modification or alteration of the product; d) neglect, misuse or abuse of product; e) accident; f) unauthorized repair or alteration; g) integration with other products or accessories not manufactured specifically for use with the Cover-All™ building; h) exposure to corrosive elements; i) exposure to conditions in excess, or not meeting, as the case may be, the wind and snow load specifications of each building model (check with our engineering dept.); j) foundation design and/or installation and/or deficiency in the foundation; k) product upgrades; l) product recall; or m) an act of God. This warranty shall not apply to any products not manufactured by Cover-All™ Building Systems. No one is authorized to change or add to this warranty. Cover-All™ Building Systems shall not be liable for any damages incurred during or as a result of installation of Cover-All™ Building Systems' product, whether or not in accordance with the instruction manual. This warranty gives you specific legal rights. You may also have other rights which vary from jurisdiction to jurisdiction. In no event shall Cover-All™ Building Systems, any distributor, or the selling dealer be liable for any direct, indirect, special incidental or consequential damages (including loss of profits, loss of time, inconvenience, or the use or inability to use this product for any purpose whatsoever), whether based on contract, tort, strict liability or any other legal basis; even if Cover-All™ Building Systems, its distributor, or selling dealer was advised of the possibility of the occurrence of such damages. The Customer/Purchaser expressly releases and discharges Cover-All™ Building Systems, all distributors, and all dealers from all claims, demands, actions, suits, judgments and executions for any actual, incidental or consequential damages, bodily or otherwise, that the Customer/Purchaser ever had, now has, or may have created by arising out of the assembly, erection, use and/or operation of any Cover-All™ building. All references to Customer's/Purchaser's, Cover-All™ Building Systems, all distributors and all dealers, include such parties' spouse, heirs, successors, legal representatives and assigns.

## LIMITED WARRANTY - STEEL



### 1. Scope of Limited Warranty

Only the steel framework, end support systems and DURATRAC and DT/LS door tubes and steel fabricated parts of the Cover-All™ building described in this agreement are warranted to the original Customer/Purchaser to be free of defects in materials and workmanship under normal use. This warranty shall be effective only if and when a) Cover-All™ Building Systems has received a completed warranty registration within 60 days after installation of the Cover-All™ building; and b) Cover-All™ Building Systems receives notice of such defect during the period of the warranty. Replacement framework or any components thereof (the "Warranted Parts"), supplied under this warranty may be new, used or rebuilt, at the option of Cover-All™ Building Systems. The Customer's/Purchaser's sole remedy shall be such repair or replacement as is expressly provided above. Any Warranted Parts of the Cover-All™ building repaired or replaced under this warranty are subsequently warranted only for the remaining unexpired portion of the warranty period applicable to the original product. If Cover-All™ Building Systems elects to repair or replace the defective product or component, Cover-All™ Building Systems shall have a reasonable time to do so.

### **Steel Framework (main arches and end support system)**

The steel main arches and steel end support systems are warranted, under normal use and maintenance in accordance with the instruction manual, to the original Customer/Purchaser for a period of 3 years following the original date of purchase.

**FIRST YEAR:** Should the Warranted Parts be found to have manufacturer defects within the first year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced at no cost to the Customer/Purchaser except for delivery costs of the Warranted Parts to the Customer/Purchaser, which shall be the sole responsibility of the Customer/Purchaser. The Warranted Parts, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer.

**SECOND YEAR:** Should the Warranted Parts be found to have manufacturer defects within the second year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced. The Customer/Purchaser shall be responsible for thirty-three (33%) percent of the repair or replacement costs plus the cost of delivery of the Warranted Parts to the Customer/Purchaser. The Warranted Parts, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer.

**THIRD YEAR:** Should the Warranted Parts be found to have manufacturer defects within the third year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced. The Customer/Purchaser shall be responsible for sixty-six (66%) percent of the repair or replacement costs plus the cost of delivery of the Warranted Parts to the Customer/Purchaser. The Warranted Parts, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer.

### **DURATRAC and DT/LS Doors**

The DURATRAC and DT/LS door tubes and steel fabricated parts (the "Warranted Parts") are warranted, under normal use and maintenance in accordance with the instruction manual, to the original Customer/Purchaser for a period of 1 year following the original date of purchase. Should the Warranted Parts be found to have manufacturer defects within the first year following purchase by the Customer/Purchaser, the defect(s) will be, at the option of Cover-All™ Building Systems, repaired or replaced at no cost to the Customer/Purchaser except for delivery costs of the Warranted Parts to the Customer/Purchaser which shall be the sole responsibility of the Customer/Purchaser. The warranted parts, if required, will be made available at the nearest authorized Cover-All™ Building Systems Dealer. All mechanical and moving parts carry an OEM Manufacturer warranty of one year.

This warranty contains the sole expressed warranty of Cover-All™ Building Systems. There are no other warranties expressed or implied. This warranty is made in lieu of any implied warranties of merchantability or fitness for a particular purpose. Specifications and warranties are applicable to units sold in Canada, the United States, its territories and possessions and may vary outside these areas.

### 2. Limits and Release of Liability

Refer to Limits and Release of Liability in LIMITED WARRANTY - DURAWEAWE™ AND DURAWEAWE™ FR ("FIRE RETARDANT"). 6/98

## CONVERSIONS

| INCHES |       |      |      | MILLIMETERS |
|--------|-------|------|------|-------------|
| 1/32"  |       |      |      |             |
| 2/32   | 1/16" |      |      | 1.6         |
| 3/32   |       |      |      |             |
| 4/32   | 2/16  | 1/8" |      | 3.2         |
| 5/32   |       |      |      |             |
| 6/32   | 3/16" |      |      | 4.8         |
| 7/32   |       |      |      |             |
| 8/32   | 4/16  | 2/8  | 1/4" | 6.4         |
|        | 5/16  |      |      |             |
|        | 6/16  | 3/8" |      | 9.5         |
|        | 7/16  |      |      |             |
|        | 8/16  | 4/8  | 2/4  | 12.7        |
|        | 9/16  |      |      |             |
|        | 10/16 | 5/8" |      | 15.9        |
|        | 11/16 |      |      |             |
|        | 12/16 | 6/8  | 3/4" | 19.0        |
|        | 13/16 |      |      |             |
|        | 14/16 | 7/8" |      | 22.2        |
|        | 15/16 |      |      |             |
|        | 16/16 | 8/8  | 4/4  | 25.4        |
|        |       |      | 2/2  | 1"          |
|        |       |      |      | 25.4        |

1 ft. lb. = 1.356 N.m

1 CUBIC YARD  
= .77 M<sup>3</sup>

1 CUBIC FOOT  
= .03 M<sup>3</sup>

| FEET | METERS |
|------|--------|
| 1'   | .305   |
| 2    | .610   |
| 3    | .914   |
| 4    | 1.219  |
| 5    | 1.524  |
| 6    | 1.829  |
| 7    | 2.134  |
| 8    | 2.438  |
| 9    | 2.743  |
| 10   | 3.048  |
| 25   | 7.620  |
| 30   | 9.144  |
| 35   | 10.668 |
| 40   | 12.192 |
| 45   | 13.716 |
| 50   | 15.240 |
| 60   | 18.288 |
| 70   | 21.336 |
| 80   | 24.384 |
| 90   | 27.432 |
| 100' | 30.480 |

# SQUARING A FOUNDATION

## IMPORTANT

Depending on the size of your building, you may need a qualified contractor or engineer to lay out the foundation of your building to ensure that it is straight and square.

The following is a suggested method only.

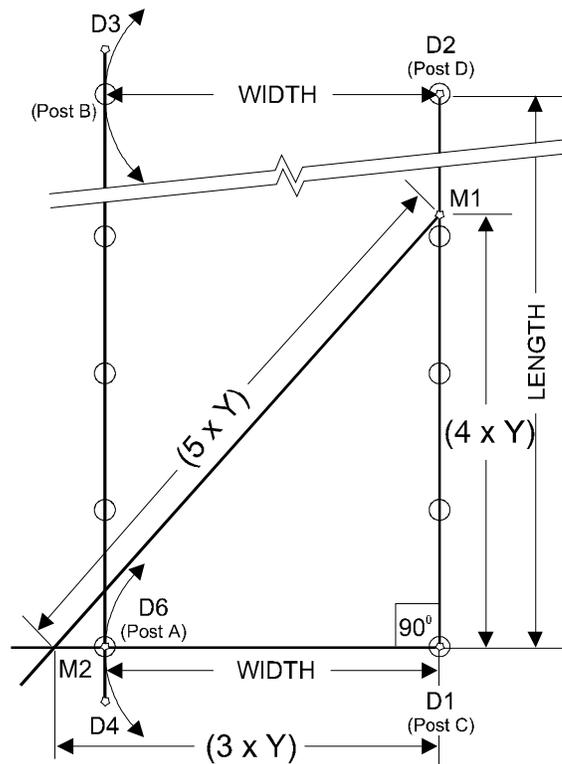
**Cover-All Building Systems™ is not responsible for foundations.**

1. Measure and string a straight line the exact length of the building (D1-D2).
2. Attach a measuring tape to stake D2 and measure the exact width of the building perpendicular to line D1-D2. Make an arc in the dirt at that exact measurement. Repeat this procedure at stake D1 and make a second arc.
3. String an extended line (D3-D4) at the crowns of these two arcs. Recheck width measurements.

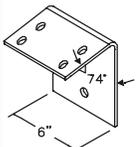
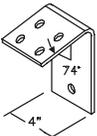
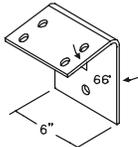
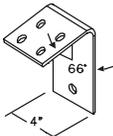
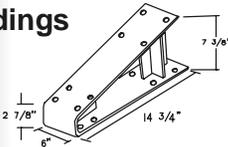
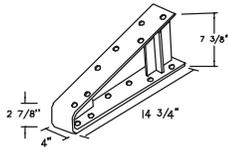
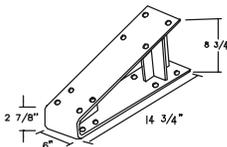
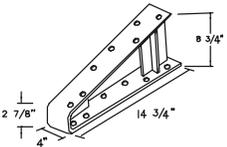
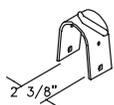
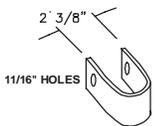
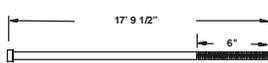
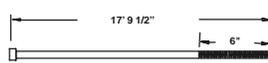
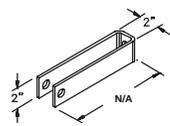
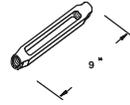
### USING THE 3-4-5 METHOD TO SQUARE THE FOUNDATION

4. With the measuring tape still attached to stake D1, measure the distance ( $4 \times Y$ ) from stake D1 towards stake D2 and place a stake (M1). See chart this page for a suggested value for Y for your building.
5. With the measuring tape still attached to stake D1, measure the distance ( $3 \times Y$ ) through the crown of the arc, and past line D3-D4, to M2.
6. With a second tape attached to stake M1, measure the distance ( $5 \times Y$ ) to M2.
7. Keeping the tapes tight, cross the two tapes at exactly the ( $3 \times Y$ ) measurement and the ( $5 \times Y$ ) measurement and hold in position. Place a stake (D6) exactly **where line D1-M2 crosses line D3-D4**. Remove stake M2.
8. Follow the linear and diagonal measurement checks on Page 6 of this manual.

| SERIES/<br>SIZE | SUGGESTED<br>Y VALUE |
|-----------------|----------------------|
| SAS 20          | 7'                   |
| 22              | 8'                   |
| 26              | 9'                   |
| 30              | 11'                  |
| TAS 18          | 7'                   |
| 30              | 11'                  |
| 32              | 11'                  |
| 42              | 15'                  |
| 40              | 14'                  |
| 50              | 17'                  |
| 55              | 19'                  |
| 62              | 22'                  |
| 72              | 25'                  |



# Building Components - con't

|  |   |  |  |
|--|---|--|--|
| <p><b>Wall Mount Buildings</b></p> <p>5.72#</p>  <p>30/40/62' BOLT-ON MOUNTING PLATE 311195</p> | <p>3.40#</p>  <p>30/40/62' BOLT-ON HALF MOUNTING PLATE 311196</p>                | <p>5.72#</p>  <p>50' BOLT-ON MOUNTING PLATE 311190</p>   | <p>3.40#</p>  <p>50' BOLT-ON HALF MOUNTING PLATE 311191</p> |
| <p><b>Ground Mount Buildings</b></p> <p>13.44#</p>  <p>30/40/62' TAS BOOT ASSEMBLY 311210</p>   | <p>8.96#</p>  <p>30/40/62' TAS HALF BOOT ASSEMBLY 311215</p>                     | <p>13.44#</p>  <p>50' TAS BOOT ASSEMBLY 311220</p>   | <p>8.96#</p>  <p>50' TAS HALF BOOT ASSEMBLY 311225</p>      |
| <p><b>HSL Buildings</b></p> <p>0.05 #</p>  <p>LOCTITE #242 - 10ml 830532</p>                    | <p>0.98#</p>  <p>62' CABLE SADDLE ASSEMBLY (FOR 2 3/8" PIPE) 311200</p>          | <p>0.06 #</p>  <p>CABLE CLAMP - 5/16" 804855</p> <p>9.67#</p>  <p>62' TRUSS CABLE - 5/16" X 48' 804835</p> | <p>0.98#</p>  <p>TAS 50 UPGRADE SADDLE 530183</p>           |
| <p>19.25#</p>  <p>TIE-ROD 5/8" X 17' 9 1/2" LEFT HAND THREAD 'YW-BLK 307300</p>                 | <p>19.25#</p>  <p>TIE-ROD - 5/8" X 17' 9 1/2" RIGHT HAND THREAD 'YWWH 307310</p> | <p>0 #</p>  <p>CROSS ROD CLEVIS 1/4" PLATE 303720</p>   | <p>0 #</p>  <p>TURNBUCKLE 5/8" X 9" 804898</p>             |

## Maintenance Recommendations For Buildings in Corrosive Environments

### BUILDING STEEL

Cover-All™ manufactured steel components are hot dipped galvanized, hot zinc plated or coated with a high quality sealant. *It is recommended that the building owner/operator:*

- Prevent corrosive material or product from resting against or covering the building steel.
- Remove any environmental residue that accumulates on the building steel.
- Seal all surface penetration marks with a high quality sealant or a high zinc content paint.

### BUILDING HARDWARE

Hardware components are made of galvanized steel or aluminum alloy; are zinc plated with an added leachant-sealant; or are zinc or cadmium plated. *It is recommended that the building owner/operator:*

- Prevent corrosive material or product from coming in direct contact with the building hardware.
- Remove any environmental residue that accumulates on the building hardware.
- Seal or protect from corrosion any non-building components that are connected to, or that come in contact with, the building hardware.

### ANCHOR BOLTS *It is recommended that the building owner/operator:*

- Seal the exposed anchor bolt threads with a high quality sealant or a high zinc content paint.

### FABRIC LASHING WINCHES *It is recommended that the building owner/operator:*

- Spray the lashing winches with a moisture displacing filming lubricant. (WD40 or equivalent)

### DURAWAVE™ FABRIC *It is recommended that the building owner/operator:*

- Prevent corrosive material or product from resting against or covering the building fabric.
- Remove any environmental residue that accumulates on the building fabric. Where moisture will not contribute to corrosion – wash with water and non-abrasive soap.

FOR TECHNICAL ASSISTANCE CALL YOUR LOCAL DEALER OR SALES REPRESENTATIVE OR 1-800-268-3768

  
Manufactured  
in Canada



3815 Wanuskewin Road, Saskatoon, SK Canada S7P 1A4

[www.coverall.net](http://www.coverall.net)



WELDING  
CERTIFICATION  
For Fusion Welding  
Of Steel Structures

Printed in Canada

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