INSTALLATION NOTES

1. Use proper safety equipment during connector installation.
2. Dimensions are in inches and loads are in pounds unless specifically noted otherwise.
3. Load values of 8d and 10d nails refer to common wire nails unless otherwise noted. Do not overdrive nails which can reduce allowable loads.
4. The type and quantity of fasteners used to install TAMLYN Products are critical to connector performance. All specified fasteners shall be properly installed if deemed necessary by the engineer.
5. Wood members with which the connectors are used must be nominal dimension lumber or approved composite lumber. For wood members with fire retardant or preservative treated wood, refer to IBC section 2304.9.4, IRC section R319.3 and NDS section 2.3.4. Wood members with moisture content of 19% or more shall be designed with wet service factor as provided for in NDS.
6. Unless otherwise permitted, TAMLYN products shall not be bent or cut in the field to facilitate installation. Field alterations can weaken steel and cause premature connector failure at less than allowable loads.
7. Fasteners can cause wood to split and reduce load capacity. 2001 NDS section 11.1.5.3 allows predrilled holes not exceeding 75% of the nail diameter.
8. It is permissible to use nails to install specified nails through prepunched holes. Fill all specified holes. TAMLYN recommends the use of nail guns with hole locating mechanisms. Always follow nail gun manufacturer’s safety guidelines.
9. Always follow tool manufacturer’s instructions for rapid setting when installing fasteners. Pneumatic or Powder activated fasteners can deflect and injure the operator or others.
10. Joists installed in hangers shall bear fully on the connector seat and shall fit against the header with a gap not exceeding 1/8".
11. Multiple ply members shall be fastened securely to act as one unit. This is the responsibility of the Engineer or Architect of Record. Pre-drilled holes shall not be substituted for 10d x 3" nails. Section 3.8.3 of the report allows the use of both 1-1/2" and 3" nails because the shear capacity of both the nails is the same.

IDENTIFICATION: TAMLYN® stencil-stamped and/or labeled with group ID (e.g., TAMLYN) on structural products identifies TAMLYN as the manufacturer of that product. Inspectors demand the following stencil-identification on all code-listed products: Manufacturer ID (e.g., TAMLYN) product model ID (e.g., RT2A) code group ID (e.g., ICC-ES)/compliance # (e.g., ESR-1347). If a company only imprints the company name and product ID, there is no assurance the product has been tested and manufactured in compliance with code regulations.

NOTE: The structural lumber connectors listed in this catalog are manufactured by TAMLYN, also listed additional structural lumber connectors which are manufactured by KC Metal Products, Inc. and Advanced Connector Systems.

Structural Engineering Firm of record for TAMLYN Lenard Gabert and Associates, Inc.; L.M. Gabert, P.E.

CODE EVALUATION

Florida Statewide Product Approvals FL #8283
ICC-ES Evaluation Report No. ESR-1347
Texas Department of Insurance. TDI # FA-6

LIMITED WARRANTY

TAMLYN warrants defective-free products for a period of 10 years for the original purchaser. TAMLYN products are further warranted as to adequacy of design, provided products are properly specified and installed. This warranty does not apply in the event products are altered in any way or are improperly installed. Liability’s limited to replacement of products proven to be defective. TAMLYN has made no other warranty, express or implied, regarding its products, including but not limited to, any warranty regarding merchantability or fitness for a specific purpose. Any claim that a product is defective must be brought within 1 month of the date of installation of such products to the original purchaser. The customer hereby agrees that no other incidental or consequential damages are the responsibility of TAMLYN.

Responsibility remains with the architect or engineer, contractor and owner for the design, application and proper installation of each TAMLYN product. Specifier and user shall determine the suitability of products for specific application and assume all responsibilities in connection there with.

CORROSION RESISTANCE

TAMLYN offers the following coatings for products which require extra corrosion resistance. Deterioration will occur more quickly when hangers and straps are exposed to corrosive environments. Products are available in the standard hot dip galvanized G90 material. If you require, additional corrosion protection, please contact TAMLYN for pricing and availability on these processes.

HOT DIP GALVANIZING: Many products are available with a hot dip galvanized coating after fabrication. The actual thickness will vary with the material thickness of the part. This process provides the needed extra protection for adverse weather conditions.

STAINLESS STEEL: The best protection from adverse conditions is found in the use of stainless steel for manufacture. Type 316 stainless steel is used. It is recommended that stainless steel fasteners be used in conjunction with these specially manufactured hardware items.

TRIPLE ZINC (G-185): 1.85 ounces of zinc per square foot of surface area meets the requirements of ASTM A 653. For minimum corrosion protection use Triple Zinc G-185 products.

PLEASE NOTE

TAMLYN reserves the right to change designs, specifications and product availability without notice or liability for such changes. Samples of our products are available upon request at no charge.
SINGLE JOIST HANGERS

DESIGN FEATURES: TAMLYN custom-die designed and manufactured for quick installation and maximum load value.


CODES: FL Approval #8283, ICC ESR-1347

NOTES:
1. Nails are 10d by 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
3. Allowable uplift loads have been adjusted by a load duration factor, \( C_e \), of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Allowable gravity (bearing) loads have been adjusted by load duration factors, \( C_e \), of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
5. Tabulated loads are without 33% steel stress increase.

STANDARD SKEWED HANGERS

DESIGN FEATURES: Standard skewed hangers are offered to promote further standardization and construction economies.

MATERIAL: 16ga. galvanized steel

LOADS: Larger seat-bearing and designed direct nailing provide proper installation of all nails into joist hangers.

CODES: ICC ER-5271

NOTES:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, \( C_e \), of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, \( C_e \), of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase.

### Joist Hangers

#### Design Features
- TAMLYN custom-die designed and manufactured for quick installation and maximum load value.
- 20ga. galvanized steel.
- Available in G-155 Triple Zinc or Hot-Dip Galvanized. Call for availability.

#### Codes
- FL Approval #8283, ICC ESR-1347

#### Notes
1. Nails are 10d by 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
3. Allowable uplift loads have been adjusted by a load duration factor, \( C_e \), of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Allowable gravity (bearing) loads have been adjusted by load duration factors, \( C_e \), of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
5. Tabulated loads are without 33% steel stress increase.

### Standard Skewed Hangers

#### Design Features
- Standard skewed hangers are offered to promote further standardization and construction economies.
- 16ga. galvanized steel

#### Loads
- Larger seat-bearing and designed direct nailing provide proper installation of all nails into joist hangers.

#### Codes
- ICC ER-5271

#### Notes
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, \( C_e \), of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, \( C_e \), of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase.
JOIST HANGERS

TRUSS PLATED HANGERS

**Design Features**: Provide proper balance between load-carrying capacity of hanger and the truss it supports.

**Material**: 18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Loads**: Seat dimension (see table) provides solid larger seat-bearing area. New higher loads possible with only common nails.

**Codes**: ICC ER-5271

**Notes**:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, C , of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C , of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Tabulated loads are without 33% steel stress increase.

**Material**: 18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes**: FL Approval #8283, ICC ESR-1347, ICC ER-5271

**Notes**:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, C , of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C , of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Tabulated loads are without 33% steel stress increase.

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**JOIST HANGERS**

**ALUS Series**

- **Item ID**: LUS24, LUS26, LUS28, LUS210
- **Reference**: LUS24, LUS26, LUS28, LUS210
- **Joist Size**: 2x4, 2x6, 2x8, 2x10
- **Dimensions**: H: 3-11/32, W: 1-9/16, B: 1-1/2
- **Nail Schedule**: 2-10d, 4-10d, 6-10d
- **Allowable Loads**: Uplift: 620, 710, 810, 875; Download: 1145, 1180, 1350, 1460

**Typical ALUS Installation**

**Notes**:
- Specified joist nails must be installed at a 30° to 45° angle through the hanger and into the header member as shown above to achieve allowable table loads.

---

**DOUBLE, TRIPLE, QUAD**

**Design Features**: TAMLYN custom-die designed and manufactured for quick installation and maximum load value.

**Material**: 18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes**: FL Approval #8283, ICC ESR-1347, ICC ER-5271

**Notes**:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, C , of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C , of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Tabulated loads are without 33% steel stress increase.

**Material**: 18ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes**: FL Approval #8283, ICC ESR-1347, ICC ER-5271

**Notes**:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor, C , of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C , of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
4. Tabulated loads are without 33% steel stress increase.

**Double, Triple, Quad**

**Notes**:
- Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
- Allowable uplift loads have been adjusted by a load duration factor, C , of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of wind and earthquake loads.
- Allowable gravity (bearing) loads have been adjusted by load duration factors, C , of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
- Tabulated loads are without 33% steel stress increase.

**Typical ALUS Installation**
DOUBLE SHEAR JOIST HANGERS

DESIGN FEATURES: The hangers in this series have the double shear slanted joist nailing feature which provides higher uplift and down loads than conventional straight joist nailing hangers. All nails for the header and joist are the same for each hanger making installation faster and simpler.


CODES: ICC ER-5271

NOTES:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor C_u of 1.6 (160%), corresponding to the typical duration of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C_u, OF 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase.

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>DIMENSIONS (INCHES)</th>
<th>NAIL SCHEDULE</th>
<th>ALLOWABLE LOADS (LBS)</th>
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</tbody>
</table>

Specified joint nails must be installed at a 30° to 45° angle through the joist and into the header member as shown above to achieve allowable table loads.
FACE MOUNT HANGERS

DESIGN FEATURES: Most models have triangle and round holes. To achieve maximum loads, fill both round and triangle holes with common nails. These heavy-duty connectors are designed for schools and other structures requiring additional strength, longevity and safety factors.

MATERIAL: 14ga. galvanized steel
Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

CODES: ICC ER-5271

NOTES:
1. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
2. Allowable uplift loads have been adjusted by a load duration factor C_u of 1.0 (100%), 1.15 (115%), and 1.25 (125%), corresponding to the typical duration of wind and earthquake loads.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C_o, corresponding to the typical duration of wood live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase.

CLIP ANCHORS

DESIGN FEATURES: Versatile reinforcing angles for a multi-purpose anchor around the job. They can be nailed to concrete slabs to hold posts or studs, or for high uplift conditions. Holes are staggered to eliminate wood splitting and to permit installation on both sides of the timber.

MATERIAL: 18 ga. galvanized steel

CODES: ICC ER-2894

FENCE BRACKETS

DESIGN FEATURES: Provide a secure fit for the connection of 1x4 and 2x4 fence boards to post.. easier to plan and build.. holes are sized to #6 wood screw or 8d nails. Many other connections possible such as patios and porches.

MATERIAL: 20 ga. galvanized steel
STUD PLATE TIES

**DESIGN FEATURES:** Used for wind resistance or seismic conditions. The Stud Plate Ties fasten the bottom plate or the top plate (double plate) to the studs.

**MATERIAL:** SPTR - 20 ga. galvanized steel
TRSP6T6-2 - 18 ga. galvanized steel

**INSTALLATION:** Use all specified fasteners. Nails must be installed into the plate before the stud. SPTR (Stud Plate Tie Reversible) has locating lines which aid in placement on single bottom plate or double top plate conditions.

**CODES:** ICC ESR-1347, ER-5271

**NOTES:**
1. Nails are 8d by 1-1/2 inch and 10d by 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C\_D, OF 1.6 (160%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase. Application of steel stress increase is not permitted.

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### STUD TO SINGLE BOTTOM PLATE

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>DIMENSIONS (INCHES)</th>
<th>CONNECTION ACHIEVED</th>
<th>NAIL SCHEDULE¹</th>
<th>ALLOWABLE LOADS² (LBS)</th>
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<td>RSP4</td>
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<td>TRSP6T6-2</td>
<td>RSPT6-2</td>
<td>2-3/4 x 2 x 2</td>
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<td>Stud to double plate</td>
<td>8-10d x 1-1/2</td>
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</tbody>
</table>

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**POST CAPS**

**DESIGN FEATURES:** Designed to connect wood post and beam members. Can be installed on a left or right. For use with 4x or 6x post.

**MATERIAL:** 20 ga. galvanized steel

**CODES:** ICC ESR-1347

**NOTES:**
1. Nails are 16d by 3-1/2 inch common nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.50 (such as Douglas Fir Larch) or greater.
3. Allowable gravity (bearing) loads have been adjusted by load duration factors, C\_D, OF 1.6 (160%), corresponding to the typical durations of occupancy live loads, snow loads and construction loads, respectively.
4. Tabulated loads are without 33% steel stress increase. Application of steel stress increase is not permitted.

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### STUD TO DOUBLE TOP PLATE

**LIGHT ANGLES**

**DESIGN FEATURES:** LLs are versatile reinforcing angles that are nailed to reinforce intersecting wood members.

**MATERIAL:** 18 ga. galvanized steel

---

**MATERIAL**

1. 20 ga. galvanized steel
2. 18 ga. galvanized steel

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**STUD TO SINGLE BOTTOM PLATE**

**STUD TO DOUBLE TOP PLATE**

**LIGHT ANGLES**

**ITEM ID**

<table>
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<tr>
<th>ITEM ID</th>
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</table>

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**TYPICAL LL23 INSTALLATION**
## POST BASE AND ANCHORS

### POST BASE

**Design Features:** Provide fully-adjustable post base plus moisture and sanitary protection - also used for new construction or remodeling applications where damp rot is a problem. Bending slot provides greater ease of installation. For an easy adjustment to a previously set 1/2" concrete fastener (or bolt and cement insert), use the slotted hole. Also available in rough post sizes.

**Material:** 18 ga. and 16 ga. galvanized steel with a 14 ga. galvanized stand-off plate. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes:** ICC ER-2894

**Special:** Stand-off plate provides flat-end bearing area for posts and keeps the post end 1-3/16" above the surface moisture.

### ADJUSTABLE ANCHORS

**Design Features:** The AAE44L provides higher uplift capacity because of extended sides with extra bolts and nailing schedules. The AAEEL anchors are also available in rough lumber sizes.

**Material:** 12 ga. galvanized steel with a 12ga. galvanized stand-off plate. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes:** ICC ER-2894

**Special:** Economical price and ease-of-use make these ideal hangers for the do-it-yourself market.

### DECK ANCHORS

**Design Features:** Eliminates toe-nailing of the post or column to a flat surface. The bottom plate 1/2" bolt hole can be set to concrete with a 1/2" bolt, cement nails or "gun" inserts.

**Material:** 18 ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes:** ICC ER-5271

## FRAMING ANCHORS

**Design Features:** Provides a plate to transfer the shear force to the blocking connection or rim joist from the top plate. The improved nail pattern helps prevent splitting of the wood members for both single/double top plate situations.

AP45 anchors provide the builder with the industry's most versatile framing anchor including: Bending slots - make accurate bends for all 2 and 3-way anchoring ties on the job.

**Material:** 18 ga. galvanized steel. Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**Codes:** ICC ER-5271

---

### POST BASE

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>POST SIZE</th>
<th>DIMENSIONS (INCHES)</th>
<th>NAIL SCHEDULE</th>
<th>ALLOWABLE LOADS (LBS)</th>
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<tbody>
<tr>
<td>AB44</td>
<td>AB44</td>
<td>4 x 4</td>
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<td>2-7/8</td>
<td>8-10d</td>
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<td>AB46</td>
<td>AB46</td>
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<td>5-1/2</td>
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<td>10-10d</td>
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### ADJUSTABLE ANCHORS

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<th>NAIL SCHEDULE</th>
<th>ALLOWABLE LOADS (LBS)</th>
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<td>5-1/2</td>
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<td>ABU66</td>
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<td>5</td>
<td>5-1/2</td>
<td>12-16d</td>
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<td>ABU88</td>
<td>ABU88</td>
<td>8 x 8</td>
<td>7</td>
<td>7-1/2</td>
<td>18-16d</td>
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### FRAMING ANCHORS

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>JOIST, RIM JOIST or BLOCKING</th>
<th>HEADER or PLATE(S)</th>
<th>DIRECTION OF LOAD C1, C2</th>
<th>ALLOWABLE LOADS (LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFAL</td>
<td>LTP4</td>
<td>6-8d x 1-1/2</td>
<td>G or H</td>
<td>C1 = 1.0, C2 = 1.15</td>
<td>590, 670</td>
</tr>
<tr>
<td></td>
<td>A35</td>
<td>6-8d x 1-1/2</td>
<td>F1</td>
<td>C1 = 1.25, C2 = 1.6</td>
<td>590, 650</td>
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<td></td>
<td></td>
<td>6-8d x 1-1/2</td>
<td></td>
<td></td>
<td>650</td>
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</table>
HURRICANE TIES

DESIGN FEATURES: Eliminate expensive, time consuming rafter notching ... provide wind and seismic ties for trusses and rafters ... fulfill specifications for resistance to lateral and uplift conditions ... also for general purpose tie use, strongback or attachments where one member crosses another.

RT1 - rafter to single plate
RT2A - universal rafter to double, plate/top plates to stud/stud to sill plate. Ergonomic design improves/speeds up and ease of installation.
RT2LR - rafter to double, plate/top plates to stud/stud to sill plate
RT9 - rafter to stud (alignment required)
RT15 and RT16 - rafter to double plate for high wind
HT8 and HT12 - the largest of all hurricane ties, made from 18 ga. galvanized steel for high load capacity, and used to tie joists, studs, trusses, plates and all other wood members

MATERIAL: 18 ga. galvanized steel
Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

CODES: FL Approval #8283, ICC ESR-1347

NOTES:
1. Nails are 8d or 10d common wire nails or 1-1/2 inch joist hanger nails.
2. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.50 (such as Douglas-fir-Larch) or greater.
3. Allowable loads are for hangers nailed into wood or structural composite lumber having an effective specific gravity of 0.55 (such as Southern Pine) or greater.
4. Allowable uplift loads have been adjusted by a load duration factor C_D corresponding to the typical duration of wind and earthquake loads.
5. Tabulated loads are without 33% steel stress increase.

Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

NAIL SCHEDULE

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>CONNECTION ACHIEVED</th>
<th>NAIL SCHEDULE</th>
<th>ALLOWABLE LOADS (LBS)</th>
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<tr>
<td></td>
<td></td>
<td>TO RAFTERS</td>
<td>TO PLATES</td>
<td>TO STUDS</td>
</tr>
<tr>
<td>RT1</td>
<td>H3</td>
<td>Rafter to single plate</td>
<td>4-10d</td>
<td>4-10d</td>
</tr>
<tr>
<td>RT2LR</td>
<td>H2.5</td>
<td>Rafter to double plate / top plates to stud / stud to sill plate</td>
<td>5-8d</td>
<td>5-8d</td>
</tr>
<tr>
<td>RT2A</td>
<td>H2.5A</td>
<td>Rafter to double plate / top plates to stud / stud to sill plate</td>
<td>5-10d</td>
<td>5-10d</td>
</tr>
<tr>
<td>RT9</td>
<td>H2</td>
<td>Rafter to stud</td>
<td>5-8d</td>
<td>2-8d</td>
</tr>
<tr>
<td>RT15</td>
<td>H1</td>
<td>Rafter to double plate</td>
<td>4-10d</td>
<td>4-10d</td>
</tr>
<tr>
<td>RT16</td>
<td>H10</td>
<td>Rafter to double plate</td>
<td>8-10d</td>
<td>8-10d</td>
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<tr>
<td>HT8</td>
<td>H8</td>
<td>Rafter/stud to dbl plate</td>
<td>5-10d</td>
<td>5-10d</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Stud to single plate</td>
<td>-</td>
<td>3-10d</td>
</tr>
<tr>
<td>HT12</td>
<td>LTS12</td>
<td>Rafter to stud</td>
<td>7-10d</td>
<td>7-10d</td>
</tr>
</tbody>
</table>
STRAP TIE HOLDOWNS

**DESIGN FEATURES:** The ASTHD holdowns embed into concrete foundations and nail to shear panel perimeter members to resist uplift load caused by earthquake and hurricane forces on a structure. They are an economical, high load connector preferred by contractors. The nail pattern facilitates nailing to the edges of double 2x members.

**MATERIAL:** 12 ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**CODES:** ICC ER-5271

**INSTALLATION:**
1. All specified fasteners must be used.
2. Fill holes starting from bottom of the strap up.
3. Strap may be bent on full cycle from vertical to horizontal (90°) and back to vertical during installation.
4. Bending strap may cause spalling or breaking away of the concrete at the bent location.
5. For ASTHD10 and ASTHD14 full loads may be applied if spall is less than 4”
6. When nailing holdown to two wood members designer must specify required fasteners to join wood members together to act as one unit. Additional stud members may be required by the designer for required wall sheathing nailing.

**TENSION TIES**

**DESIGN FEATURES:** The AHTT series tension ties provide a full range of load capacity for retrofitting or new construction. Tension ties connect shear panels to the foundation and can be installed after the pour.

**MATERIAL:** 11 ga. galvanized steel Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

**CODES:** ICC ER-5271

**NOTES:**
1. AHTT tension ties are attached to approved anchor bolts of the diameter specified with a capacity equal to or greater than the allowable holddown capacity. Concrete compressive strength must be a minimum of 2,000 psi at 28 days. Side cover and embedment depth requirements in accordance with the approved anchor bolt requirements.
2. Nail lengths are minimum penetration into the structural wood member (minus steel thickness). Longer nails may be used at the same load values.
3. Uplift loads have been increased 33% and 60% (C = 1.33 or 1.60, for fastener design in wood) for short-term wind and earthquake loading for recognition under UBC and IBC/IRC, respectively. No further increase is permitted.
4. Allowable loads are based on the use of either nails or bolts, and are not otherwise cumulative.

---

**Table: Allowable Tension Loads for Doug Fir & Southern Pine**

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>MATERIAL (GA)</th>
<th>DIMENSIONS (IN)</th>
<th>FASTENERS</th>
<th>ALLOWABLE TENSION LOADS (LBS)</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>W</td>
<td>L</td>
<td>B</td>
</tr>
<tr>
<td>AHTT16</td>
<td>HTT16</td>
<td></td>
<td>2</td>
<td>1-1/2</td>
<td>16</td>
</tr>
<tr>
<td>AHTT22</td>
<td>HTT22</td>
<td></td>
<td>2</td>
<td>1-1/2</td>
<td>22-1/8</td>
</tr>
</tbody>
</table>

---

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**HURRICANE STRAPS**

**DESIGN FEATURES:** Provide the builder with a complete range of tie straps to meet a variety of application and design load conditions and specifications.

**APPLICATIONS:** Use as all-purpose ties to connect studs to sill, rafters to plates and beams, wall intersections, ridges, upper floor to lower floor wall studs, window reinforcement. All nail holes must be filled to achieve published uplift values. Special lengths available based upon your specifications (not specifically code listed due to many length combinations). Considered essential by code officials and insurance companies in maintaining a continuous load path, therefore mitigating destruction from high winds and seismic activity. SS18/24 Fir-Larch headers (more user friendly) SS9/12 have 4 holes within 1-1/2" of one end to enable 4 nails to enter a bottom plate per TDI request.

**MATERIAL:** 20 ga. & 18 ga. galvanized steel

**CODES:** FL Approval #8283, ICC ESR-1347

**NOTES:**
1. Nails are 10d by 3 inch joist hanger nails complying with section 3.8.3. Allowable tension loads are based on conditions with an equal number of nails on either side of the connection. In cases where this condition is not met, allowable tension loads must be based on the side of the connection having the fewest nails. 10d x 1-1/2" nails can be substituted for 10d x 3" nails. Section 3.8.3 of the report allows the use of both 1-1/2" and 3" nails because the shear capacity of both the nails is the same.
2. Allowable tension loads include load duration factor of 1.6 per section 2.3.2 of NDS 2001. No further increases in allowable loads are permitted.
3. Allowable tension loads are based on Southern Pine (SYP) with a specific gravity of 0.55, Douglas Fir-Larch (DFL) with specific gravity 0.50, and Spruce-Pine-Fir (SPF) or Hem-Fir (HF) with specific gravity of 0.42.
4. Tabulated loads are for ASTM A653 Steel with Fy=33 ksi and Fu=45 ksi
5. Tabulated loads are without a 33% steel stress increase. Application of steel stress increase is not permitted.

**COIL STRAPS**

**DESIGN FEATURES:** Coiled strapping consists of continuous coils which are designed to be cut to length on the job as required. No need to order 10", 18" or 24" straps, etc. Staggered hole pattern reduces wood splitting. Used to secure or wrap existing buildings for seismic upgrade, to tie water heaters to floors and walls and for utility purposes such as hanging pipes from rafters, studs or joists, boxed for easier usage and storage.

**MATERIALS:** 20 ga., 18 ga. and 16 ga. galvanized steel

**CODES:** FL Approval #8283, ICC ESR-1347

**NOTE:** Design loads are based on the assumption that one half of the specified number of nails are installed in each of the two members connected.

---

### CS Series

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>GA</th>
<th>TOTAL LENGTH (FEET)</th>
<th>WIDTH (INCHES)</th>
<th>END LENGTH (INCHES)</th>
<th>CUT TO LENGTH</th>
<th>TOTAL FASTENERS</th>
<th>ALLOWABLE LOADS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS150</td>
<td>CS16</td>
<td>16</td>
<td>150'</td>
<td>1-1/4</td>
<td>3/4</td>
<td>14</td>
<td>26-8d x 1-1/2</td>
<td>1235</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
<td>24-10d x 1-1/2</td>
<td>1235</td>
</tr>
<tr>
<td>CS200</td>
<td>CS18</td>
<td>18</td>
<td>200'</td>
<td>1-1/4</td>
<td>3/4</td>
<td>9-1/2</td>
<td>20-8d x 1-1/2</td>
<td>950</td>
</tr>
<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>9</td>
<td>18-10d x 1-1/2</td>
<td>950</td>
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<tr>
<td>CS250</td>
<td>CS20</td>
<td>20</td>
<td>250'</td>
<td>1-1/4</td>
<td>3/4</td>
<td>7-1/2</td>
<td>16-8d x 1-1/2</td>
<td>750</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
<td>14-10d x 1-1/2</td>
<td>750</td>
</tr>
</tbody>
</table>
WALL BRACING

DESIGN FEATURES:

WB Series: We recommend metal bracing only be used to serve as temporary bracing to prevent racking before structural sheathing is applied. Metal bracing should never be used as a substitute for sheer wall sheathing, as it offers only about one-tenth the resistance to racking as 3/8” plywood.

WBT Series: T wall brace extra-rigid lengths won’t bend as easily as flat brace, making installation easier. No X-pattern installation needed.

MATERIAL:

WB 16 ga. galvanized steel
WBT 22 ga. galvanized steel

CODES: FL Approval #8283, ICC ESR-1347

NAIL PLATES

DESIGN FEATURES: Designed to provide positive connections at wall intersections and ridge ties when the top plates are cut...also used for truss repairs or construction and splice applications on wood-to-wood splices.

MATERIAL: 20 ga. galvanized steel

CODES: FL Approval #8283, ICC ESR-1347

MUDSILL ANCHORS

DESIGN FEATURES: Provide for faster, more economical and secure method for anchoring wood framing to masonry or concrete.

TMAB1 - For installation into concrete slab or poured stemwalls. Features a pre-bent base flange to assure proper anchoring into concrete. When a 2 x 8 mudsill is used for TMAB1 maximum spacing is 3 feet. Loads and installation for TMAB1 assumes nominal 2 x 4 or 2 x 6 mudsill, when used as a direct substitution for 1/2” anchor bolt 6” o.c.

MAS - For installation into concrete slabs. MAS features a split flange for nailing to both mudsill and stud for greater framing versatility. Install before pouring the concrete by nailing to the form or after the pour by inserting the MAS into the concrete. There is fast and simple nail attachment - only six code-spaced nails are needed to drive either to the mudsill or directly to the stud.

MATERIALS: MAS 16ga. galvanized steel, TMAB 18ga. galvanized steel
Available in G-185 Triple Zinc or Hot-Dip Galvanized. Call for availability.

ITEM ID     REF.     GAUGE     DIMENSIONS     ANGLE AND WALL HEIGHT     NAIL SCHEDULE

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>GAUGE</th>
<th>W (INCHES)</th>
<th>L (FEET)</th>
<th>ANGLE AND WALL HEIGHT</th>
<th>PLATE</th>
<th>STUD</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB10</td>
<td>WB106</td>
<td>16</td>
<td>1-1/4</td>
<td>9’ 6”</td>
<td>60° / 8 FEET</td>
<td>3-10d</td>
<td>1-10d</td>
</tr>
<tr>
<td>WB12</td>
<td>WB126</td>
<td>16</td>
<td>1-1/4</td>
<td>11’ 5”</td>
<td>45° / 8 FEET</td>
<td>3-10d</td>
<td>1-10d</td>
</tr>
<tr>
<td>WB14</td>
<td>WB146</td>
<td>16</td>
<td>1-1/4</td>
<td>13’ 6”</td>
<td>45° / 10 FEET</td>
<td>3-10d</td>
<td>1-10d</td>
</tr>
<tr>
<td>WB16</td>
<td></td>
<td>16</td>
<td>1-1/4</td>
<td>15’ 6”</td>
<td>45° / 12 FEET</td>
<td>3-10d</td>
<td>1-10d</td>
</tr>
<tr>
<td>WBT10</td>
<td>TWB10</td>
<td>22</td>
<td>2</td>
<td>9’ 3”</td>
<td>60° / 8 FEET</td>
<td>4-8d</td>
<td>1-8d</td>
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<tr>
<td>WBT12</td>
<td>TWB12</td>
<td>22</td>
<td>2</td>
<td>11’ 4”</td>
<td>45° / 8 FEET</td>
<td>4-8d</td>
<td>1-8d</td>
</tr>
</tbody>
</table>

MUDSILL ANCHORS

TMAB1 Typical Installation in Concrete

ITEM ID     REF.     LENGTH (INCHES)     MUDSILL SIZE (INCHES)     NAIL SCHEDULE\(^1\)     ALLOWABLE UPLIFT (LBS)

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>LENGTH (INCHES)</th>
<th>MUDSILL SIZE (INCHES)</th>
<th>SIDES</th>
<th>TOP</th>
<th>SYL</th>
<th>DFL</th>
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<tbody>
<tr>
<td>TMAB1</td>
<td>MAB15</td>
<td>12-1/2</td>
<td>2 x 4, 6</td>
<td>6</td>
<td>8</td>
<td>980</td>
<td>980</td>
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<tr>
<td>MAS</td>
<td>MAS</td>
<td>2 x 4, 6</td>
<td></td>
<td>2</td>
<td>4</td>
<td>815</td>
<td>703</td>
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<td></td>
<td>4</td>
<td>2</td>
<td>815</td>
<td>815</td>
</tr>
</tbody>
</table>
PLYWOOD CLIP AND WALL TIES

PLYWOOD CLIP

DESIGN FEATURES: For quick, easy installation between plywood panels for roof sheathing or panelized construction .. provide structural support .. reduce normal plywood deflection between panels .. embossed dimples/built-in spacer type feature provide APA recommended 1/8" gap.

MATERIALS: 20 ga. galvanized steel

CORRUGATED WALL TIES

US Patent Pending
US Trademark # 3,196,848

DESIGN FEATURES: Ties masonry to wall studs.

PACKAGING: Corrugated wall ties available in Stackpack® pioneered by Tamlyn (lined up tightly in box) or bulk (loose in box). Suppliers can sell stackpack by the sleeve or even by the piece count (250 or 500) and store 5 pallets on top of each other. Also available in retail pack of 100.

WARNING: Repeated bending of steel is unnecessary, will weaken the strength of the product, may create fracture at the bend line, and is considered an abuse of the product, voiding any performance warranty. Fractured steel will not perform as designed and should be discarded immediately. Only one bend of the product to the desired 90° form should be required.

MATERIAL: 22 ga. and 28 ga. Galvanized Steel. Also available in hot dip galvanized after fabrication (in accordance with ASTM A153 B3) and stainless steel (type 304/2B) for optimal corrosion resistance. Stainless steel is absolutely best material for longevity. Field studies show regular galvanized wall ties can deteriorate and fail within 10 years. Be certain compatible fasteners are used (e.g., stainless steel nails with stainless steel wall ties). Painted steel over galvanized is acceptable and actually superior.

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>REF.</th>
<th>MATERIAL</th>
<th>PANEL THICKNESS</th>
<th>MAXIMUM ROOF SPAN WITH PC OR PCS</th>
<th>W/O PC OR PCS</th>
<th>NUMBER OF PC OR PCS PER SPAN</th>
</tr>
</thead>
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<tr>
<td>PCS716</td>
<td>PSCL 7/16</td>
<td>GALV. STEEL</td>
<td>7/16</td>
<td>24</td>
<td>24</td>
<td>1</td>
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<td>PSCL 15/32</td>
<td>GALV. STEEL</td>
<td>15/32</td>
<td>32</td>
<td>28</td>
<td>1</td>
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<tr>
<td>PCS12</td>
<td>PSCL 1/2</td>
<td>GALV. STEEL</td>
<td>1/2</td>
<td>32</td>
<td>28</td>
<td>1</td>
</tr>
<tr>
<td>PCS58</td>
<td>PSCL 5/8</td>
<td>GALV. STEEL</td>
<td>5/8</td>
<td>40</td>
<td>32</td>
<td>1</td>
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<td>PCS1932</td>
<td>PSCL 19/32</td>
<td>GALV. STEEL</td>
<td>19/32</td>
<td>40</td>
<td>32</td>
<td>1</td>
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<tr>
<td>PCS34</td>
<td>PSCL 3/4</td>
<td>GALV. STEEL</td>
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<td>36</td>
<td>2</td>
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<td>GALV. STEEL</td>
<td>23/32</td>
<td></td>
<td>48</td>
<td>36</td>
<td>2</td>
</tr>
</tbody>
</table>

BT (Straight) Series

BTZZ (Zig-Zag) Series

Smooth Edges for Easier, Safer, Faster Installation!

<table>
<thead>
<tr>
<th>ITEM ID</th>
<th>TYPE</th>
<th>GAUGE</th>
<th>MATERIAL</th>
<th>LOAD @ FAILURE</th>
<th>PACKAGING</th>
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<tbody>
<tr>
<td>BT16HDG</td>
<td>STRAIGHT</td>
<td>16</td>
<td>HOT-DIPPED</td>
<td>-</td>
<td>BULK</td>
</tr>
<tr>
<td>BT16SP</td>
<td>STRAIGHT</td>
<td>16</td>
<td>GALVANIZED</td>
<td>-</td>
<td>STACKPACK®</td>
</tr>
<tr>
<td>BT22BULK</td>
<td>STRAIGHT</td>
<td>22</td>
<td>HOT DIPPED</td>
<td>1370</td>
<td>BULK</td>
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**COLUMN HOLDOWN FOR ROUND AND SQUARE COLUMNS**

**DESIGN FEATURES:** CHR and CHS are designed to resist uplift loads at roof overhangs and/or floor loads and transfer them to concrete foundations thru 1/2" diameter threaded steel rod acting as a tension transfer device.

**MATERIAL:**
- Aluminum Plate t = 0.059" - 5052-0 Alloy
- Structural Ring Plate t = 0.120" - A 653 grade 50
- Conforming Washer t = 0.120" 
- 1/2" Steel Rod - A36 & A588

(E) SDS 1/4" X 3" Wood screws by KC Metals or equivalent for Assembly 1
(F) 1/4" ø Tapcon Concrete anchor, 1-3/4" Concrete embedment

**US Patent #8,567,743**

**(E) SDS 1/4" X 3" Wood screws by KC Metals or equivalent for Assembly 1**

**(F) 1/4" ø Tapcon Concrete anchor, 1-3/4" Concrete embedment**

**STRUCTURAL NOTE:**

1. 4", 6", 8" and 10" diameter Column Holdowns are used to resist uplift loads at roof overhangs and transfer them to concrete foundations thru a 1/2" diameter threaded steel rod acting as a tension transfer device.

2. For Assembly # 1 the uplift capacity of 4" diameter column holdown is 3750 lbs, of 6" diameter is 3130 lbs, of 8" diameter is 2310 lbs and of 10" diameter column head is 1730 lbs. This capacity is based on tested loads at failure divided by a factor of safety of two. Refer to test reports by PSI Inc. Houston, Texas.

3. For Assembly # 2, uplift capacity of all sizes 4", 6", 8" and 10" diameter column holdown is 3750 lbs with 1/2" diameter A36 steel rod and 4530 lbs with A588 steel rod. For this assembly, tension capacity of 1/2" rod controls the design and not the tested failure loads divided by two. Refer to test reports by PSI Inc. Houston, Texas.

4. Based on tests per ASTM A 370 conducted by PSI Inc. Houston, tensile and yield strengths of steel plate designated “B” are 60,100 psi and 48700 psi respectively. ASTM a 653 grade 50 steel conforms to these strengths. Aluminum plate designated “A” conforms to Aluminum Alloy 5052-0.

5. 1/2” diameter steel threaded rod shall conform to ASTM A 370 for Assembly # 1 and to A36 or A588 for Assembly # 2.

6. Provide Steel Washer Plate designated “C” at each end of the rod. Steel rod shall be sufficiently tightened to transfer load from top to bottom.

7. The upper Aluminum plate “A” and Steel Ring plate “B” are anchored to wood framed structural members of the roof overhang with SDS 1/2” wood screws for Assembly # 1. For Assembly # 2, provide 2 X 1/2” X 1/2” X 1/4” steel washers at the top of wood joists.

8. For both assemblies, provide 1/2” diameter machine bolts D thru unused holes to connect Aluminum plate A to Ring plate B.

9. The lower Aluminum plate “A” and Steel ring plate “B” are anchored to concrete foundations at all holes with 1/2” diameter Tapcon concrete anchors with 1 1/4” concrete embedment into min. 3000 psi concrete.

10. Proprietary Precast Columns wrapping the aluminum and steel plates are used to resist gravity loads.

11. Engineer of Record shall design the roof overhangs and concrete foundations.

**ITEM ID** | **COLUMN SIZE** | **ALUMINUM PLATE** | **STEEL RING PLATE** | **ALLOWABLE LOADS (LBS)**
---|---|---|---|---
CHR4 | 4" | 3" | 5.5" | .099" | 3.25" | 5.25" | .120" | 3750 | 3750 | 4530
CHR6 | 6" | 5" | 7.625" | .059" | 5.25" | 7.375" | .120" | 3130 | 3750 | 4530
CHR8 | 8" | 6.625" | 9" | .059" | 6.75" | 9" | .120" | 2310 | 3750 | 4530
CHR10 | 10" | 8" | 11.5" | .059" | 9" | 11.25" | .120" | 1730 | 3750 | 4530
CHS6 | 6" | 2.75" | 7.5" | .059" | 3" | 7.5" | .120" | 3130 | 3750 | 4530
CHS8 | 8" | 4" | 9" | .059" | 4.25" | 9" | .120" | 2310 | 3750 | 4530
COLUMNS HOLDOWN SYSTEM

INSTALLATION INSTRUCTIONS:
1. Cut column to desired finished length minus 1/4" for plate thickness, then insert cap and base onto the column shaft.
2. Feed the threaded rod through the column shaft. Insert the threaded rod to the center hole of the bottom plate and secure with hex nut.
3. Insert other end of the threaded rod to the center hole of the top plate and secure with hex nut.
4. Cut both end of excess threaded rod for flush fit with the plate.
5. Slide the column into its final position and mount plates to the concrete slab and the roof structure. See structural note on page 20.

ASSEMBLY 1
2 sets of column holdown (top and bottom)
3 pieces of 48" x 1/2" threaded steel rod
2 coupling nuts
1 2" x 2" square plate washer with 9/16" hole
2 hex nuts

ASSEMBLY 2
2 sets of column holdown (top and bottom)
3 pieces of 48" x 1/2" threaded steel rod
2 coupling nuts
1 2-1/2" x 2-1/2" x 1/4" square plate washer with 9/16" hole
3 hex nuts

RECOMMENDED FASTENERS
1/4" X 3" Wood screws
1/4" Tapcon concrete anchor
Machine Bolts

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