FASTER. EASIER. BETTER.

Armstrong® Drywall Framing Systems install faster than traditional methods, which helps you complete jobs under cost and ahead of schedule.

Our Drywall Systems are manufactured to meet or exceed ASTM standards and code requirements and are engineered to provide economical alternatives to stud and track construction.

We provide pre-engineered solutions for direct-to-deck installations, vertical drops, and short spans. This makes Armstrong ShortSpan® Drywall Framing perfect for use in corridors, small room configurations, restrooms, and storage closets.

DRYWALL Grid Systems

Code Compliance You Can Trust

- ASTM C645
- ASTM C840
- ASTM C841
- ASTM C842
- ASTM C926
- ASTM C1063
- ASTM C754
- ICC Evaluation Report Number ESR-1289
- City of LA – RR 25348
- Miami/Dade wind uplift – NOA #15-0127.04 – 03/17/15
- Miami/Dade Impact – NOA #14-1204.05 – 10/07/14
- Consult local codes for specific requirements

For more information, call 877 276-7876

Performance

- PeakForm® patented profile increases strength and stability for improved performance during installation
- SuperLock™ main beam clip is engineered for a strong secure connection and fast accurate alignment confirmed with an audible click; easy to remove and relocate
- ScrewStop™ reverse hem prevents screw spin-off on 1-1/2" wide face
Corrosion Prevention

Corrosion prevention is an essential factor in the economical utilization of galvanized sheet metal for ceiling grid. Armstrong provides G40 for standard construction per ASTM C645. When conditions include exposure to extreme moisture and salt water, G90 is available per ASTM A653.

STUCCO/PLASTER GRID SYSTEMS

- Rotary-stitched – Greater torsional strength and stability
- 1-1/2" wide face main beams and cross tees – Easy installation of screw applied gypsum wallboard
- G90 hot dipped galvanized coating – Superior corrosion resistance for exterior applications
- Heavy-duty load rating – Minimum 16 lbs./LF on main beams and cross tees
- Wind Load construction available, including Miami Dade/Broward County, Florida
- Pre-engineered stucco products space tees to match lath dimensions
# COMPONENTS

## MAIN BEAMS

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Length</th>
<th>Face Dimension</th>
<th>Profile Height</th>
<th>Duty Load</th>
<th>Fire Rated</th>
<th>Routes</th>
<th>Load Test Data (Lbs./LF)</th>
<th>Perspecti ve</th>
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<tr>
<td>HD8906</td>
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<td>1-1/2&quot;</td>
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<th>Item Number</th>
<th>Length</th>
<th>Face Dimension</th>
<th>Profile Height</th>
<th>Duty Load</th>
<th>Fire Rated</th>
<th>Routes</th>
<th>Load Test Data (Lbs./LF)</th>
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† Type “F” fixture compatible

## CROSS TEES

<table>
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<tr>
<th>Item Number</th>
<th>Length</th>
<th>Face Dimension</th>
<th>Profile Height</th>
<th>Duty Load</th>
<th>Fire Rated</th>
<th>Routes</th>
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<td>XL8926</td>
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Note: All items available in High Recycled Content (HRC) as special order.

† Type “F” fixture compatible
Transition moldings make it easier to detail and build a wide variety of acoustical to drywall transitions.

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Description</th>
<th>Profile</th>
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<tr>
<td>7858</td>
<td>Reverse Angle Molding</td>
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<td>KAM10</td>
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<td>KAM1510</td>
<td>Knurled Angle Molding</td>
<td>1-1/2” x 1-1/2”</td>
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<tr>
<td>KAM21020</td>
<td>Knurled Angle Molding</td>
<td>2” x 2” (20 ga.)</td>
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<td>LAM12</td>
<td>Locking Angle Molding</td>
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<td>SC151220EQ</td>
<td>SimpleCurve™ Knurled Angle</td>
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NOTE: All items available in High Recycled Content (HRC) as special order.
### ACOUSTICAL TO DRYWALL TRANSITION MOLDING (continued)

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<td>F Vertical Transition Molding</td>
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<td>9/16&quot; Tegular Transition Molding</td>
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<td>7910</td>
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<td>15/16&quot; Shadow Reveal Transition Molding</td>
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### WIRE LOAD DETAILS

9-Gauge Wire Breaking Strength and Technical Data

- **9-Gauge Wire Diameter**: .148" Galvanized Steel
- **645 lbs. Maximum Safe Wire Load**

**NOTE:** Per ASTM C1063 wires must be plumb and straight

![Diagram showing wire load details](image9)
1. Install the main beams with 9-gauge wires. Space main beams 36” O.C. Hanger wire and compression post spacing as required for specific wind load and plenum depth.

2. Install 36” cross tee to required O.C. spacing.

3. Isolation at perimeters is mandatory when installing any stucco system. Install perimeter channel molding at wall/ceiling junctures to support tees independent of walls. Use main beam at cut cross tee perimeters and galvanized track on main beam perimeters.

4. Install 3.4 Lb. 3/8” galvanized diamond mesh lath with wafer head sharp point screw to cross tees (use cadmium coated screws on exterior applications). Lath options:
   a. 3/8”, 3.4# flat rib diamond mesh lath 27” x 8’-0”
   b. 3/8”, 3.4# rib diamond mesh lath 27” x 8’-0”
   c. 3/8”, 3.4# high back rib diamond mesh lath 27” x 8’-0”
   d. 3/8”, 3.4# paper back diamond mesh lath 27” x 8’-0”

5. Expansion Joints – Installed in accordance with Metal Lath/Steel Framing Association Specifications/Standards.

6. Control Joints – Installed in accordance with Metal Lath/Steel Framing Association Specifications Standards.

7. Plaster stops, grounds, and corner pieces are attached to system with wafer head screws and/or 18 gauge tie wire.

8. Plaster or stucco mixture and thickness to be in accordance with manufacturer’s recommendations and applied:
   - ASTM C842 – For Gypsum Plaster

9. For exterior application use steel studs for vertical bracing (see page 10 for wind load).

For further information, contact your local representative or TechLine at 877 276-7876.
STUCCO/PLASTER DETAILS

Suspended Metal Lath and Interior Stucco

- Hanger Wire
- Cross Tee
- Wafer Screw
- Main Beam
- Metal Lath

Lighting Troffer

- Adjustable Arm
- Light Fixture
- Cross Tee
- Main Beam
- Metal Lath
- Flange

Non-Modular Cut and Screw

Exterior Wind Loaded Stucco

- Metal Stud
- Vertical Brace
- Hanger Wire
- Main Beam
- Cross Tee
- Stucco

Stucco Perimeter Stop

- Main Beam
- Wall
- Stucco
- "STOP" Screwed to Suspension
- 3/8" Min.
Rock Lath and Plaster

- Main Beam
- 3’ O.C. Hanger Wire
- Rock Lath
- Butterfly Clips
- Control Joint
- Plaster

Security Metal Lath and Plaster

- Main Beam
- Cross Tee 1” Sharp Point Wafer Head Screw
- Security Lath
- Hanger Wire
- Metal Lath

Security Lath

6” Min.
8” Max.
(Screws 6-8” apart)
<table>
<thead>
<tr>
<th>Plenum Height (FT - IN)</th>
<th>Design Wind Velocity (MPH)</th>
<th>Design Wind Pressure (PSF)</th>
<th>Compression Post Size (Inch)</th>
<th>Compression Post Gauge (Ga. No.)</th>
<th>Membrane Substrate 3/8” Ribbed Sheet lath 3.4 Lbs/Sq.YD., Per ASTM C-847</th>
<th>Compression Post Spacing (ft.-in.)</th>
<th>Main Runner Spacing (Inch)</th>
<th>Cross Tee Spacing (Inch)</th>
<th>Hanger Wire/Cross Tee Spacing (ft.-in.)</th>
<th>Cross Tee Length (Feet)</th>
<th>Compression Post Design Load (Lbs.)</th>
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</table>

**Control Joints**

- Ceiling expansion joints are installed to separate the metal suspension system when expansion joints occur in buildings, or when metal changes direction. Expansion joints are required to separate a system in T-, H-, I-, and U- or circle-shaped buildings to eliminate cracking from expansion.

**Membrane Load Values**

- Maximum Load in lbs./ft.² at Hanger Wire/Cross Tee Spacing

**Component Combinations**

- HD8906/70536G90 (mains 36” O.C.)
- HD8906/70536G90 (mains 24” O.C.)
- SP135/70536G90 (mains 36” O.C.)

**Non-Impact Miami / Dade County EIFS Exterior Ceiling Design NOA 14-1204.05 Design Hurricane Zone Approved**

- **Impact Rated EIFS Exterior Ceiling Design with 5/8” F/R plywood added to membrane Miami / Dade County NOA 14-1204.05 Design Hurricane Zone Approved**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Products & Properties Based on Dietrich Industries Inc.**

- **Compression Post Assemblies at this Plenum design depth Calculated by Dietrich Design Group.**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads Stud Product & Properties Based on Dietrich Industries Inc.**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at Mid Span for 10’/4” up to 15’0”**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at 1/3rd Points for 15’1” up to 20’0”**

- **Compression Post and Ceiling system Tested at the Plenum design depth shown here for Passive and Negative Wind Speed pressure Loads as listed.**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Product & Properties Based on Dietrich Industries Inc.**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at Mid Span for 10’/4” up to 15’0”**

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- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Product & Properties Based on Dietrich Industries Inc.**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at Mid Span for 10’/4” up to 15’0”**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at 1/3rd Points for 15’1” up to 20’0”**

- **Compression Post and Ceiling system Tested at the Plenum design depth shown here for Passive and Negative Wind Speed pressure Loads as listed.**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Product & Properties Based on Dietrich Industries Inc.**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at Mid Span for 10’/4” up to 15’0”**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at 1/3rd Points for 15’1” up to 20’0”**

- **Compression Post and Ceiling system Tested at the Plenum design depth shown here for Passive and Negative Wind Speed pressure Loads as listed.**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Product & Properties Based on Dietrich Industries Inc.**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at Mid Span for 10’/4” up to 15’0”**

- **Note: 1-1/2” 16ga. U-Channel Bridging required at 1/3rd Points for 15’1” up to 20’0”**

- **Compression Post and Ceiling system Tested at the Plenum design depth shown here for Passive and Negative Wind Speed pressure Loads as listed.**

- **For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads**

- **Stud Product & Properties Based on Dietrich Industries Inc.**
For maximum wind speed of 172 MPH.

1. Wind Load Brace 2-1/2" 18-Gauge Steel 2' O.C.
2. From 0' to 6' 22-Gauge 2-1/2" Metal Studs Minimum From 6' to 10'-3" 18 Gauge 2-1/2" Metal Studs Minimum.
3. From 10'-4" to 15' 18-Gauge 2-1/2" Metal Studs Minimum 16 Gauge CRC Mid Span.
4. From 15' to 20' 18 Gauge 2-1/2" Metal Studs Minimum 16 Gauge CRC 1/3 Points.

5. Item 3 and 4 above CRC Bracing Shown on Other Drawings.
6. Main Beams 3' O.C. / Cross Tees 16" O.C.
7. Positive Attachment Metal Studs Top and Bottom.
8. #9 Hanger Wire – as shown above

Notes:
- 3 Ft. Cross Tees 16" O.C.
- 18 Gauge 2-1/2" Studs 2' O.C.
- Main Beams 3' O.C.
- Positive Attachment
- 3/8" Diamond Mesh
- 3.4 Galv. Steel Lath
- 10'-3" Vertical Drop
- 2' O.C.
- Fastener Attachment by Other Manufacturer
- Hanger Wire 2' O.C.
- 3/4"
For maximum wind speed of 172 MPH.

Notes:

1. 18-Gauge 2-1/2’ steel studs, 10’-3” vertical drop.
2. Positive Attachment top and bottom.
3. Hanger Wire 2’ O.C.
4. Main Beams 3’ O.C. / Cross Tees 16” O.C 3’ long.
Notes:

1 16-Gauge CRC Channel Bracing required at Mid Span for 10’ – 15’ vertical drop.
2 Positive Attachment top and bottom.
3 18-Gauge 3-5/8” studs 2’ O.C.
4 Main Beams 3’ O.C. / Cross Tees 16” O.C 3’ long.
5 #9 Hanger Wire

For maximum wind speed of 172 MPH.
**Notes:**

1. #16-Gauge CRC Channel Bracing required at 1/3 Point at 20’ vertical drop.
2. Positive Attachment top and bottom.
3. 16-Gauge 3-1/2” studs 2’ O.C.
4. Main Beams 3’ O.C. / Cross Tees 16” O.C 3’ long.

For maximum wind speed of 172 MPH.
MAKING A TEMPLATE

ESTABLISHING AN ARC

Draw radius on template (plywood, gypsum board, etc.)

1. Establish a center line.
2. Mark 2’ increments on line perpendicular to center line.

Example: 43’ arc using chart on page 19

<p>| | | |</p>
<table>
<thead>
<tr>
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<tr>
<td>2'-0&quot;</td>
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<td>2'-0&quot;</td>
</tr>
<tr>
<td>5/8&quot;</td>
<td>2'-1/4&quot;</td>
<td>5'-1/8&quot;</td>
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</table>

Location of First Row at Center Line

COMPLETING THE TEMPLATE – OPTION 1

1. Cut along the arc and remove section of template.
2. Cut main beam as required and position along the cut radius on the template (use chart on page 19).

3. At 2’ marks, identify points of arc below perpendicular line (maintain consistent spacing of point) See radius charts on page 17.
4. Connect points to form a smooth arc.

3 Screw RC2 clips to faceted main beam at all knockout locations. *
4 On the template, mark a rout location reference point to maintain consistent rout location.

* RC2 Clip placement
Vaults – Cross tee placement in routs between cuts
Valleys – Cross tee lock into rout on RC2 clip (tight radius installations may require bending up of the flange at ends of cross tees)
Note: Screw RC2 to cavity side of web
1. Draw radius on board.
2. Screw flex track to board along radius line.
3. Cut main beams as required and position along the flex track on the template.
4. Screw RC2* clips to faceted main beam at all knockout locations.
5. On the template, mark a rout location reference point to maintain consistent rout location.

Contractors’ efficiency and understanding of the suspended grid system construction provides performance benefits and cost savings.

- An unlimited range of vaults and valleys can be constructed using faceted main beams made on the job to meet design needs.
- Single and multiple curved ceilings can be framed quickly and easily.

*Screw RC2 on cavity side of web
## RADIUS DIMENSIONS

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<th>10' 0&quot;</th>
<th>11' 0&quot;</th>
<th>12' 0&quot;</th>
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For more information, call 877 276-7876
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