STUCCO/PLASTER GRID SYSTEMS

HANGING AND FRAMING STUCCO/PLASTER CEILINGS

Inspiring Great Spaces®

Armstrong®
CEILING SOLUTIONS
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

- Meets ASTM C645
- Meets ASTM C840
- Meets ASTM C841
- Meets ASTM C842
- Meets ASTM C926
- Meets ASTM C1063
- Meets 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

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
TABLE OF CONTENTS

2 Code Compliance
2-3 Performance
4 Components
5-6 Moldings
6 Wire Load
7 Stucco/Plaster Grid Suspension Installation
8-9 Stucco/Plaster Details
10 Wind Load
11 Exterior Wind Load Bracing to Concrete Slab
12-14 Exterior Wind Load Bracing to Meet Metal Bar Joists
15-16 Making a Template
17 Radius Chart

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

**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.

**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>Perspective</th>
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<td>L/360 wires at</td>
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<td>HD8906</td>
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<td>1-11/16&quot;</td>
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<td>Yes</td>
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<td>Heavy Duty</td>
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† Type "F" fixture compatible

## CROSS TEES

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<th>Perspective</th>
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<td>L/360 wires at</td>
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<td>XL7936G90</td>
<td>36&quot;</td>
<td>1-1/2&quot;</td>
<td>1-1/2&quot;</td>
<td>No</td>
<td>none</td>
<td>31.3</td>
<td>50</td>
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<td>XL8926</td>
<td>24&quot;</td>
<td>1-1/2&quot;</td>
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<td>Yes</td>
<td>3 routs – center rout and 10&quot; from each end†</td>
<td>90.25</td>
<td>158</td>
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</table>

Note: All items available in High Recycled Content (HRC) as special order.
† Type "F" fixture compatible
### WALL MOLDING

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<th>Item Number</th>
<th>Length</th>
<th>Description</th>
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<tr>
<td>7858</td>
<td>144&quot;</td>
<td>Reverse Angle Molding nominal</td>
<td>1-9/16&quot; x 15/16&quot;</td>
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<td>7838</td>
<td>120&quot;</td>
<td>Unhemmed Channel Molding nominal</td>
<td>3/4&quot; x 1-9/16&quot; x 1-1/4&quot;</td>
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<td>KAM10</td>
<td>120&quot;</td>
<td>Knurled Angle Molding nominal</td>
<td>1-1/4&quot; x 1-1/4&quot;</td>
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<tr>
<td>KAM12</td>
<td>144&quot;</td>
<td>Knurled Angle Molding nominal</td>
<td>1-1/4&quot; x 1-1/4&quot;</td>
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<td>KAM1510</td>
<td>120&quot;</td>
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<td>1-1/2&quot; x 1-1/2&quot; (KAM1510 &amp; KAM1512 - 25g.; KAM151020 - 20g.; KAM151020EQ - 20g.)</td>
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<td>KAM21020</td>
<td>120&quot;</td>
<td>Knurled Angle Molding nominal 2&quot; x 2&quot; (20 gage) (KAM21020 - 20g.; KAM21025 - 25g.; KAM21020EQ 22g.)</td>
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<td></td>
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<td>LAM12</td>
<td>144&quot;</td>
<td>Locking Angle Molding nominal</td>
<td>1-1/4&quot; x 1-1/4&quot;</td>
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**NOTE:** All items available in High Recycled Content (HRC) as special order.

### ACOUSTICAL TO DRYWALL TRANSITION MOLDING

Transition moldings make it easier to detail and build a wide variety of acoustical to drywall transitions.

<table>
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<td>7901</td>
<td>9/16&quot; Shadow Reveal Transition Molding</td>
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<td>7902</td>
<td>15/16&quot; Shadow Reveal Transition Molding</td>
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<td>7903</td>
<td>1&quot; Flush T Transition Molding</td>
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<td>7904</td>
<td>15/16&quot; Flush Transition Molding</td>
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ACOUSTICAL TO DRYWALL TRANSITION MOLDING (continued)

<table>
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<tr>
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<th>Description</th>
<th>Profile</th>
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</thead>
<tbody>
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<td>7905</td>
<td>9/16&quot; Flush Transition Molding</td>
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<td>7906</td>
<td>&quot;F&quot; Vertical Transition Molding</td>
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<td>7907</td>
<td>9/16&quot; Tegular Transition Molding</td>
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</tr>
<tr>
<td>7908</td>
<td>15/16&quot; Tegular Transition Molding</td>
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</tbody>
</table>

WIRE LOAD DETAILS

9-Gauge Wire Breaking Strength and Technical Data

- 9 Gauge Wire Diameter: .148"
- Galvanized Steel
- 645 lbs. Maximum Safe Wire Load
- 203 lbs. Maximum Load on Main Runner at Hanger Wire Connection
- 3 Turns in 3" Per ASTM C636

NOTE: Per ASTM C1063 wires must be plumb and straight

For more information, call 877 276-7876
STUCCO/PLASTER INSTALLATION AND DETAILS

STUCCO/PLASTER GRID SUSPENSION INSTALLATION

1. Install the main beams with 9-gauge wires. Space main beams 36" on center. Hanger wire and compression post spacing as required for specific wind load and plenum depth.

2. Install 36" cross tee to required on-center 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
   - ASTM C926 – For Portland Cement-based 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.

DETAILS OF STUCCO/PLASTER SYSTEMS

For more information, call 877 276-7876
STUCCO/PLASTER DETAILS

DETAILS OF STUCCO/PLASTER SYSTEMS

Suspended Metal Lath and Interior Stucco

Exterior Wind Loaded Stucco

Lighting Troffer

Stucco Perimeter Stop

Non-Modular Cut and Screw
### Security Metal Lath and Plaster

- **Main Beam**
- **Cross Tee 1” Sharp Point Wafer Head Screw**
- **Security Lath 6” Min. 8” Max.** (Screws 6-8” apart)
- **Hanger Wire**
- **Metal Lath**

### Rock Lath and Plaster

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

For more information, call 877 276-7876
**WIND LOAD**

**STUCCO SYSTEM EXTERIOR WIND LOAD & IMPACT RESISTANT CEILING DESIGN FOR NORTH AMERICA**

<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&quot; Ribbed Sheet Lath 3.4 Lbs/50.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 Spacing (ft. - in.)</th>
<th>Cross Tee Length (Feet)</th>
<th>Compression Post Design Load (Lbs.)</th>
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<tbody>
<tr>
<td>15</td>
<td>0.507 CSJ</td>
<td>36&quot; Lathing &amp; 3/4&quot; - 1&quot; Stucco</td>
<td>2' - 10&quot;</td>
<td>48</td>
<td>13.5</td>
<td>4&quot;</td>
<td>4</td>
<td>15</td>
<td></td>
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<tr>
<td>30</td>
<td>2.027 CSJ</td>
<td>36&quot; Lathing &amp; 3/4&quot; - 1&quot; Stucco</td>
<td>2' - 9&quot;</td>
<td>48</td>
<td>13.5</td>
<td>4&quot;</td>
<td>4</td>
<td>38</td>
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<td>45</td>
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<td>13.5</td>
<td>3</td>
<td>101</td>
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<td>60</td>
<td>8.108 CSJ</td>
<td>36&quot; Lathing &amp; 3/4&quot; - 1&quot; Stucco</td>
<td>2' - 9&quot;</td>
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<td>13.5</td>
<td>3</td>
<td>199</td>
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<td>90</td>
<td>12.343 CSJ</td>
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<td>13.5</td>
<td>2</td>
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<td>105</td>
<td>18.445 CSJ</td>
<td>36&quot; Lathing &amp; 3/4&quot; - 1&quot; Stucco</td>
<td>2' - 3&quot;</td>
<td>24</td>
<td>13.5</td>
<td>2</td>
<td>230</td>
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<tr>
<td>150</td>
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<td>13.5</td>
<td>2</td>
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<td>175</td>
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<td>230</td>
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</table>

**Ceiling System = SP135-590 Main Runner 11.25 ft. / XL 7936-590 Cross Runner 3 ft. / XL 8926-G90 Cross Runner 2 ft. / # 9 Ga. H.D.G. Hanger Wire**

* 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 Positive and Negative Wind Speed pressure Loads as listed.

* Non-Impact Miami / Dade County EIFS Exterior Ceiling Design NOA 15-0127.04 Design

** Hurricane Zone Approved

Impact Rated EIFS Exterior Ceiling Design with 5/8” F/R plywood added to membrane Miami / Dade County NOA 15-0127.04 Hurricane Zone Approved

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

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**Control Joints**

Reference section 7.11.4.1-7.11.4.3 for location and spacing of control joints.

**Expansion 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**

<table>
<thead>
<tr>
<th>Component Combinations</th>
<th>Maximum Load in lbs./ft. at Hanger Wire/Cross Tee Spacing</th>
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<tbody>
<tr>
<td>36’1/16&quot;</td>
<td>13.37</td>
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<tr>
<td>L360</td>
<td>L360</td>
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<tr>
<td>HD8906/HL7936G90 (mains 36’ O.C.)</td>
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<td>HD8906/HL8926 (mains 24’ O.C.)</td>
<td>13.37</td>
</tr>
<tr>
<td>SP135/HL7936G90 (mains 36’ O.C.)</td>
<td>13.37</td>
</tr>
</tbody>
</table>

For more information, call 877 276-7876
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
**For maximum wind speed of 172 MPH.**

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:**
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.

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.
**MAKING A TEMPLATE**

**ESTABLISHING AN ARC**

**COMPLETING THE TEMPLATE – OPTION 1**

**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**

- **Location of First Row at Center Line**

**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.**

**Main Beam**

- **Template under Main Beam**

**Cut Main Beam(s) to Fit Template**

**Radius of Vault Plus Thickness of Gypsum Board (Can Be Partial Radius of Large Spans)**

**Cut**

**Span of Vault**

**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>Radius Dimension</th>
<th>10' 0&quot;</th>
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For more information, call 877 276-7876
877 276-7876

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