TECHNICAL GUIDE

STUCCO/PLASTER
Grid Systems
Hanging and Framing
Stucco/Plaster Ceilings
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**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
- **Rotary-stitched** — Greater torsional strength and stability
- **1-1/2” wide face** main beams and cross tees — Easy installation of screw applied gypsum wallboard
- **G40 hot dipped galvanized coating** — Superior corrosion resistance
- **G90 hot dipped galvanized coating** — Available for exterior application
- **Heavy-duty load rating** — Minimum 16 Lbs./LF on main beams and cross tees
- Wind uplift construction available

**Code Compliance**

- Meets ASTM C 635
- Meets ASTM C 645
- Installation per ASTM C 636
- Installation per ASTM C 754
- ICBO Evaluation Report Number ES-5413
- Department of State Architect — DSA PA105
- City of LA — RR 25348
- Consult local codes for specific requirements
### Main Beams

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### Wire Load

**9 Gauge Wire Breaking Strength and Technical Data**

- 3 Turns in 3" Per ASTM C 636
- 500 lbs. Pullout — Hanger Wire Hole
- 9 Gauge Wire Diameter .148"
- Galvanized Steel
- 740 lbs. Breaking Point
Stucco/Plaster Grid Suspension Installation

1. Install main beam with 9 gauge hanger wire spaced 36" on center. Space main beam 36" on center.
2. Install 36" cross tee, spaced 16" on center.
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. galvanized diamond mesh or flat ribbed lath with wafer head self drilling screw to cross tees (use cadmium coated screws on exterior applications).
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 C 842 – For Gypsum Plaster and ASTM C 926 – For Portland Cement-based Plaster.
9. For exterior application use steel studs for vertical bracing (see page 6 for wind load).

For further information, contact your local representative or TechLine at 877 ARMSTRONG.

Details of Stucco/Plaster Systems
### Suspended Metal Lath and Stucco

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

### Exterior Wind Loaded

(See chart on page 6)

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

### Lighting Troffer

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

### Stucco Perimeter Stop

- **Main Beam**
- **Wall**
- **Stucco**
- **Screwed to Suspension**
- **Metal Lath**
- **“STOP”**

### Rock Lath and Plaster

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

### Security Metal Lath and Plaster

- **Main Beam**
- **Cross Tee**
- **Security Lath**
- **Hanger Wire**
- **Metal Lath**
- **Rock Lath**

For more information call 1 877 ARMSTRONG
## Wind Load Ceiling Design

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<tr>
<th>Vertical Height in Plenum</th>
<th>Up Lift Load (mph)</th>
<th>Stud Gauge</th>
<th>Stud Thickness</th>
<th>Lath</th>
<th>Main Runner Spacing</th>
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* NOTE: CSJ strut (stud) 3-5/8” 20 gauge bridging at mid-span block and strap method
CEILING SYSTEMS

1 877 ARMSTRONG (1 877 276 7876)
• Name of your Inner Circle Contractor or Gold Circle Distributor or Sales Representative
• Customer Service Representatives
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• Literature and samples information
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• Wall base and installation accessories
• Armstrong Guaranteed Installation Systems

Metal suspension manufacturers accept no responsibility for water damage done to Stucco and Plaster installations systems by water leaks, misapplication, acts of God or faulty installation. We do accept responsibility for Metal System performance in a plum and level surface for attachments with screws as stated in our literature.

These drawings show typical conditions in which the Armstrong product depicted is installed. They are not a substitute for an architect’s or engineer’s plan and do not reflect the unique requirements of local building codes, laws, statutes, ordinances, rules and regulations (Legal Requirements) that may be applicable for a particular installation.

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