# DRYWALL Grid Systems – Curved Ceilings

## KEY SELECTION ATTRIBUTES
- Select items available in High Recycled Content (HRC) (XL8965, XL8945): Total Recycled Content 61%, Post-consumer 53%, Pre-consumer 8%
- Non-HRC items have 30% recycled content
- **PeakForm**™ 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/relocate
- **ScrewStop**™ reverse hem prevents screw spin-off on 1-1/2" wide faces
- Pre-notchet at either 8" or 16" on center to simplify fabrication of faceted main beam
- **SimpleCurve**™ bend to create curves as tight as 52"
- **RC2** clip is used on main beam at every knockout location to reinforce the desired radius; rout hole on clip allows for cross tee placement as required
- Rotary-stitched during manufacture by a patented method
- Minimum G40 hot dipped galvanized coating, per ASTM C645; provides superior corrosion resistance
- **XL** staked-on end detail cross tees for secure locked connection; easy to install
- 10-Year Limited System Warranty
- 30-Year Limited Ceiling Systems Warranty

## TYPICAL APPLICATIONS
- Indoor applications
- Barrel vaults and domes
- Groin vaults
- 3-D curves of all types

## VISUAL SELECTION

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Face Profile</th>
<th>Description</th>
<th>Dimensions (Inches)</th>
<th>Rout Spacing</th>
<th>Load Test Data* (Lbs./Lin. Ft.)</th>
<th>Packaging Pcs./ Ctn.</th>
<th>Lin. Ft/ Ctn.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HD8906FO8</td>
<td>1-1/2&quot;</td>
<td>12” Faceted Drywall Main Beam: for creating curved installations</td>
<td>144 x 1-1/2 x 1-11/16&quot;</td>
<td>51 routs – 8&quot; O.C.</td>
<td>L/240: 18.8 @ 12&quot;</td>
<td>12 144</td>
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<tr>
<td>HD8906F16</td>
<td>1-1/2&quot;</td>
<td>12” Faceted Drywall Main Beam: for creating curved installations</td>
<td>144 x 1-1/2 x 1-11/16&quot;</td>
<td>51 routs – 16&quot; O.C.</td>
<td>L/240: 18.4 @ 4&quot;</td>
<td>12 144</td>
<td></td>
</tr>
</tbody>
</table>

## MATERIALS


## NOTES
- Note: All load test data based on flat installation per ASTM C635.

**Declare** Living Building Challenge Compliant

**SUSTAIN** High Performance Sustainable Ceiling Systems

Calculate LEED contribution at armstrongceilings.com/greengenie

TechLine 877 276 7876
armstrongceilings.com/drywall

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**ASTM Class**
- HD - Heavy-Duty
- IC - Intermediate-Duty
- LD - Light-duty
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<thead>
<tr>
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<th>Packaging Pcs./Lin. Ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7838</td>
<td>Unhemmed Channel Molding</td>
<td>120 x 3/4 x 1-9/16&quot;</td>
<td>20 200</td>
</tr>
<tr>
<td>7858</td>
<td>Reverse Angle Molding</td>
<td>144 x 1-3/16 x 15/16&quot;</td>
<td>20 240</td>
</tr>
<tr>
<td>LAM12</td>
<td>25 gauge nominal locking angle molding, locking tabs 8&quot; on center, starting 4&quot; from each end</td>
<td>144 x 1-1/4 x 1-1/4&quot;</td>
<td>10 240</td>
</tr>
<tr>
<td>LAM12HRC</td>
<td>25 gauge nominal locking angle molding, locking tabs 8&quot; on center, starting 4&quot; from each end</td>
<td>144 x 1-1/4 x 1-1/4&quot;</td>
<td>10 240</td>
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<tr>
<td>LAM151220E</td>
<td>12&quot; Locking Angle Molding (Locking tabs 8&quot; O.C.) 22 Gauge (.028&quot; metal thickness)</td>
<td>144 x 1-1/2 x 1-1/2&quot;</td>
<td>10 120</td>
</tr>
<tr>
<td>KAM10</td>
<td>25 gauge knurled angle molding (.018&quot; Metal Thickness)</td>
<td>120 x 1-1/4 x 1-1/4&quot;</td>
<td>10 100</td>
</tr>
<tr>
<td>KAM12</td>
<td>25 gauge knurled angle molding (.018&quot; Metal Thickness)</td>
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<td>10 120</td>
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<tr>
<td>KAM12G90</td>
<td>25 gauge knurled angle molding (.018&quot; Metal Thickness)</td>
<td>144 x 1-1/4 x 1-1/4&quot;</td>
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<tr>
<td>KAM1510</td>
<td>25 gauge knurled angle molding (.018&quot; Metal Thickness)</td>
<td>120 x 1-1/2 x 1-1/2&quot;</td>
<td>10 100</td>
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<tr>
<td>KAM1512</td>
<td>20 gauge knurled angle molding (.033&quot; Metal Thickness)</td>
<td>144 x 1-1/2 x 1-1/2&quot;</td>
<td>10 120</td>
</tr>
<tr>
<td>KAM151020</td>
<td>10 gauge knurled angle molding – G90 galvanized steel coating (.033&quot; Metal Thickness)</td>
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<td>10 100</td>
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<tr>
<td>KAM21025</td>
<td>25 gauge knurled angle molding (.018&quot; Metal Thickness)</td>
<td>120 x 2 x 2&quot;</td>
<td>10 100</td>
</tr>
<tr>
<td>KAM21020EQ</td>
<td>22 gauge knurled angle molding (.028&quot; Metal Thickness)</td>
<td>120 x 2 x 2&quot;</td>
<td>10 100</td>
</tr>
<tr>
<td>KAM20020</td>
<td>20 gauge knurled angle molding (.033&quot; Metal Thickness)</td>
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<td>10 100</td>
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<tr>
<td>SC151220EQ</td>
<td>12&quot; x 1.5&quot; SimpleCurve™ Knurled Angle Molding – (.028&quot; metal thickness)</td>
<td>148 x 1-1/2 x 1-1/2&quot;</td>
<td>10 124</td>
</tr>
<tr>
<td>SC151225</td>
<td>12&quot; x 1.5&quot; SimpleCurve™ Knurled Angle Molding – (.018&quot; metal thickness)</td>
<td>148 x 1-1/2 x 1-1/2&quot;</td>
<td>10 124</td>
</tr>
<tr>
<td>SC21220EQ</td>
<td>12&quot; x 2&quot; SimpleCurve™ Knurled Angle Molding – (.028&quot; metal thickness)</td>
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<td>10 124</td>
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<tr>
<td>SC21225</td>
<td>12&quot; x 2&quot; SimpleCurve™ Knurled Angle Molding – (.018&quot; metal thickness)</td>
<td>148 x 2 x 2&quot;</td>
<td>10 124</td>
</tr>
</tbody>
</table>

### ACCESSORIES

- **RC2 – Radius Clip** – Radius Clip is used for drywall applications which form curved installations; attaches to the cavity side of web of the main beam with four 7/16" pan head screws. Install at all knockout locations.

- **IIC – Impact Isolation Clip** – Impact Isolation Clip for use with HD8906IIC drywall grid main beam. Provides up to 8 points of IIC improvement to ensure your project meets IBC requirements. IIC Clip must be used with HD8906IIC Drywall Grid Main Beam.

- **MBAC – Main Beam Adapter Clip** – Attaches to web of suspension system section; provides larger surface for screw attachments; used as a hold down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed suspension system with lay-in panels, leaving the suspension system face free of screw holes.

### INSTALLATION NOTES

#### Curving Main Beams

Creating curved framing for drywall is easy and offers unlimited possibilities.
- Custom radii to suit any design installation
- You control the curve
- Not limited to a preselected or predetermined curved radius
- Full range of clips and accessories make installation easier than bending stud and track

RC2 Clip – Radius will determine on center spacing of cuts.

RC2 clip must be installed on faceted main beams when used to frame a flat ceiling.

NOTE: Place RC2 clip on the side of the web where the rotary stitching forms a cavity. This allows the clip to be placed flush with web.

NOTE: RC2 clip must be installed at every knockout location on main beam.

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
- Single and multiple curved ceilings can be framed quickly and easily

#### Working with Vaults

1. Hanger wires must be minimum 12 gauge and spaced along the main beams not more than four feet on center for gypsum board construction and not more than three feet on center for plaster work (spaced as required to support load).
2. For vaults, space the main beams four feet on center for gypsum board construction and three feet on center for plaster. Angle or channel molding is used to frame the ends of the structure. Mains 6’ on center is possible, but must consult SS rep first.
3. Thickness of the sheathing material is determined by its plasticity.
4. Add vertical braces as required to stabilize the frame.
5. See Commercial Ceilings Solutions Guide (BPCS-3479) for additional information.
DRYWALL Grid Systems – Curved Ceilings

DETAILS

Main Beam

Cross Tees

SimpleCurve™

Channel Molding

KAM – Knurled
Angle Molding

Reverse Molding

Locking Angle Molding LAM22

SEISMIC PERFORMANCE

<table>
<thead>
<tr>
<th>Material</th>
<th>Minimum Lbs. To Pull Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Main Beams</td>
<td>Compression/Tension</td>
</tr>
<tr>
<td>HD8901</td>
<td>348.0</td>
</tr>
<tr>
<td>HD8906</td>
<td>374.0</td>
</tr>
<tr>
<td>Cross Tees</td>
<td>377.0</td>
</tr>
<tr>
<td>XL7918, XL8926, XL8925, XL7938, XL7341, XL8341, XL8945PHRC, XL8947PHRC, XL8965HRC</td>
<td></td>
</tr>
</tbody>
</table>

ICC Reports

For areas under ICC jurisdiction, see ICC evaluation report number 1289 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions, and possible cancellation.

PHYSICAL DATA

Material

Hot dip galvanized steel

Surface Finish

Unpainted steel

Cross Tee/Main Beam Interface

Override

End Detail

Main Beam: Staked-on clip

Cross Tee: Staked-on clip

Duty Classification

Heavy-duty

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