

\section*{| MADE |
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|  |}

HANGING
\& FRAMING
CURVED CEILINGS


## Armstrong

World Industries

FRAMEALL" DRYWALL GRID
FrameAll"m Drywall Grid offers a worry-free approach to incorporating hills, valleys, undulating waves, vaults, and domes into your design. Combining our faceted main beam with our RC2 clip allows you to:

Create custom radii to suit any design
Have ultimate control of the curve
Expand your design beyond traditional pre-selected or pre-determined radii

CODE COMPLIANCE YOU CAN TRUST

## City of LA - RR 25348

 International Building Code, Continuous Membrane, One Level.Per Section 25.210 single level drywall single level drywall celings do not require
lateral bracing when walls are more than 50 feet apart. When walls are more than 50 feet apart, the ceiling should be examined for bracing requirements


Flat Drywall Grid barrel vault installation

BC categories $\mathrm{D}, \mathrm{E}$ and single layer drywall ceilings are exempt from lateral force bracing requirements, regardless of room size. Consult local codes for specific requirements.

PERFORMANCE (cont..)
PeakForm® profile increases strength and stability for improved performance during installation
XL® (staked-on end detail) cross tees provide secure locked connection; fast and easy to instal
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
(Kyurled Ridges on cross tees for speed of screw insertion during board installation
...cont.) PERFORMANCE
crewstop" reverse hem prevents screw spinoff on 1-1/2" wide face Faceted main beam - prenotched main beam to simplify assembly of curved ections; all notched locations along main beam require installation of RC2 clip HD8906F08 - Prenotched 8" 0.C. HD8906F16 - Prenotched 16" O.C.

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 - corrosion resistance

990 Hot dipped galvanized coating superior corrosion resistance for xterior applications (HD8906F08 nd H 8906 F16 not available in 90 coating)
ross tee spacing: 24" O.C. for
$5 / 8{ }^{\prime \prime}$ drywall 16 " $0 . \mathrm{C}$. for $1 / 2^{\prime \prime}$ drywall 8" 0.C. for tight radius



## FACETED MAIN BEAM

HD8906F08 - Faceted 8" O.C. Use for radius 15 ' or less

HD8906F16 - Faceted 16" O.C. Use for radius over 15' (Directional Main Beam)
(3-2)

CROSS TEES

| Perspective | Item No. | Length | Height | Pcs./Ctn | LF/ Ctn | Load Test Data (Lbs/LF) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | $\begin{gathered} \text { L/240 } \\ \text { Simple Span } \\ \hline \end{gathered}$ | $\begin{gathered} \mathrm{L} / 360 \\ \text { Simple Span } \\ \hline \end{gathered}$ |
|  |  |  |  |  |  | $72{ }^{\text {" }}$ | $72{ }^{\text {" }}$ |
|  | XL8965 xL8965HRC XL8965690 | 72 | 1-1/2" | 36 | 216 | 6.87 @ 72" | 4.58 @ ${ }^{\text {2 }}$ |
|  | $\begin{aligned} & \text { XL8947P } \\ & \text { XL8947PG90 } \end{aligned}$ | $50 "$ | 1-1/2" | 36 | 150 | 19.5 @ 50" | 12.79 @ 50" |
|  | XL8945P XL8945HRC XL8945PG90 | 48" | 1-1/2" | 36 | 144 | 22.5 @ 48" | 14.27 @ 48" |
|  | XL8940 | 40 " | 1-1/2" | 36 | 119 | 36.22 @ 40" | 24.15 @ 40" |
|  | XL7936690** | $36^{\prime \prime}$ | 1-1/2" | 36 | 108 | 45.7 @ 36" | 31.33 @ 36" |
|  | $\begin{aligned} & \hline \text { XL8926 } \\ & \text { XL8926G90 } \\ & \hline \end{aligned}$ | $24^{4}$ | $1-1 / 2^{\prime \prime}$ | 36 | 78 | 19.0 @24" | 90.25 @ 24" |


| Metric | Item No. | Length | Height | Pcs./Ctn | LF/ Ctn | Load Test Data (Lbs./LF) |  | Load Test Data (KG./LM) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  | L/240 Simple Span | $\begin{gathered} \text { L/360 } \\ \text { Simple Span } \end{gathered}$ | $\begin{gathered} \text { L/240 } \\ \text { Simple Span } \end{gathered}$ | $\begin{gathered} \text { L/360 } \\ \text { Simple Span } \end{gathered}$ |
| Drywall Cross | xL7961* | 1600 mm | 38mm | 36 | 188.9 | 10.25 @ 72 | 6.84 @ 72 " | 15.21 @ 1600 mm | 10.15 @ 1600 m |
|  | XL7930* | 1200 mm | 38 mm | 36 | 138.8 | 22.4 @ 88" | 14.93 @ 48" | 33.48 @ 1200mm | 21.24 @ 1200 m |
|  | XL792 | 900 mm | 38 mm | 36 | 108 | 51.92 @ 36" | 34.61 @ $36{ }^{\prime \prime}$ | 68.01 @ 900 mm | 46.62 @ 900m |
|  | XL7920* | 600mm | 38 mm | 36 | 69.4 | 114.59 @ 24" | 79.39 @ 24" | 177.15 @ 600mm | 134.31 @ 600 mm |



| Perspective | Item No. | Length | Height | Metal Thickness | Pcs/Ctn | LF/Ctn | Profile |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Reverse Angle Molding | 7858 | $144{ }^{\prime}$ | 15/16" | 0.018" | 20 | 240 |  |
| Locking Angle Molding | Lam12 | 144" | 1-1/4" | 0.018" | 10 | 240 | $\begin{array}{\|c} \substack{1-1 / 2^{\prime \prime} \\ 1-1 / 44^{\prime \prime}} \\ \vdots \end{array}$ |
|  | LAM12690 | 144" | 1-1/4" | 0.018" | 10 | 240 |  |
| \% | LAM12HRC | $144 "$ | 1-1/4" | 0.018" | 10 | 240 |  |
|  | LAM151220E | 144" | 1-1/2" | 0.028" | 10 | 120 |  |
| Knurled Angle Molding <br> (KAM) | кам10 | 120 | 1-1/4" | 0.018" | 10 | 100 |  |
|  | кam12 | $144 "$ | $1-1 / 44^{\prime \prime}$ | 0.018" | 10 | 120 |  |
|  | KAM12G90 | 144" | 1-1/4" | 0.018" | 10 | 120 |  |
|  | KAM1510 | 120 | 1-1/2" | 0.018" | 10 | 100 |  |
|  | KAM1512 | $144 "$ | 1-1/2" | 0.018" | 10 | 120 |  |
|  | KAM151020E | ${ }^{120}$ | $1-1 / 2^{\prime \prime}$ | 0.028" | 10 | 100 |  |
|  | KAM151220E | $144{ }^{\prime \prime}$ | 1-1/2" | 0.028" | 10 | 120 |  |
|  | KAM151020 | 120" | 1-1/2" | 0.033" | 10 | 100 |  |
|  | кам1525690 | 120 | $1-1 / 2^{\prime \prime}$ | 0.018" | 10 | 100 |  |
|  | кам1520690 | 120 | 1-1/2" | 0.018" | 10 | 100 |  |
|  | KAM21025 | $144 "$ | $2 "$ | 0.018" | 10 | 100 |  |
|  | Kam21020EQ | 120 | $2 "$ | 0.028" | 10 | 100 |  |
|  | KAM21020 | 120 | $2 "$ | 0.033" | 10 | 100 |  |
| SimpleCurve ${ }^{\circledR}$ KAM | SC151220EQ (37" Radius) | $148{ }^{\prime \prime}$ | 1-1/2" | 0.028" | 10 | 124 |  |
|  | $\begin{aligned} & \hline \text { SC151225 } \\ & \text { (32" Radius) } \end{aligned}$ | 148" | 1-1/2" | 0.018" | 10 | 124 |  |
|  | SC21220EQ | 148" | $2^{\prime \prime}$ | 0.028" | 10 | 124 |  |
|  | SC21225 (40" Radius) | $148{ }^{\prime \prime}$ | ${ }^{2 \prime}$ | 0.018" | 10 | 124 |  |

## Material: Extruded aluminum, alloy 6063

| Item No. | Length/tem Description | Dimensions |  |
| :---: | :---: | :---: | :---: |
| AXTRVESTR | Straight Transition for Axiom ${ }^{\text {V }}$ - ${ }^{\text {ctor }}$ Ceiling | $120 \times 2-9 / 16 \times 1-11 / 16^{\prime \prime}$ |  |
| AXTRTECUR | Curved Transition for Tegular | $120 \times 2-9 / 16 \times 1-11 / 16^{\prime \prime}$ |  |
| AXTR7907STR | 9/16" Tegular Transition Molding, Straight | $120 \times 2-9 / 16 \times 1-1 / 1 / 16^{\prime \prime}$ |  |
| AXTR7907CUR | 9/16" Tegular Transition Molding, Curved | Vary $\times 2-9 / 16 \times 1-11 / 16^{\prime \prime}$ |  |
| AXTR7908STR | 15/16" Tegular Transition Molding, Straight | $120 \times 2-9 / 16 \times 1-13 / 16{ }^{\prime \prime}$ |  |
| AXTR7908CUR | 15/6" Tegular Transition Molding, Curved | Vary $\times 2-9 / 16 \times 1-13 / 16^{\prime \prime}$ |  |
| AXTR2STR | 2" Stright Transition | $120 \times 2 \times 1-1 / 2^{\prime \prime}$ |  |
| AXTR2CUR | 2 " Curved Transition | $120 \times 2 \times 1-1 / 2^{\prime \prime}$ |  |
| AXTRASTR | 4" Straight Transition | $120 \times 4 \times 1-1 / 2^{\prime \prime}$ | = |
| AXTRACUR | 4" Curved Transition | $120 \times 4 \times 1-1 / 2^{\prime \prime}$ |  |
| AXTR6STR | 6" Straight Transition | $120 \times 6 \times 1-1 / 2^{\prime \prime}$ |  |
| AXTR6CUR | 6 " Curved Transition | $120 \times 6 \times 1-1 / 2^{\prime \prime}$ | Acousticalto-Drywall Drywallo-orywall |
| AxTR8STR | 8" Straight Transition | $120 \times 8 \times 1-1 / 2^{\prime \prime}$ |  |
| AXBTSTR <br> AXBTCU | Drywall Bottom Trim for Straight and Curved $5 / 8$ " Drywall | $120 \times 1-1 / 8 \times 27 / 32 "$ |  |
| AXBTASTR AXBTACUR | Bottom Trim for AcoustiBuilt ${ }^{\ominus}$ Ceiling Systems (straight or curved) | - |  |
| accessories |  |  |  |
| AXASPLICEB | Splice Plate | - |  |
| AXSPLICE2 | Axiom Splice Plate <br> Galvanized sheet steel formed to fit into the trim channel bosses. Provides positive lock between abutting channels with factory-installed setscrews. | - |  |
| AXtBC | ${ }^{T}$-Bar Connector Clip | - |  |


| Item No. | Length/tem Description |  |
| :---: | :---: | :---: |
| AX1PC2STR | 2-9/16" One-Piece Straight Drywall Trim |  |
| AXIPC2CUR | 2-9/16" One-Piece Curved Drywall Trim |  |
| $\overline{\text { AXPCASTR }}$ | 4" One-Piece Straight Drywall Trim |  |
| AXIPC4CUR | 4" One-Piece Curved Drywall Trim |  |
| AXIPC6STR <br> AXPC6CUR | 6" One-Piece Straight Drywall Trim 6" One-Piece Curved Drywall Trim |  |
|  |  |  |

NOTE: For use with $58^{\prime \prime}$ drywall only

A variety of drywall grid accessories are available to provide problem-solving solutions that save time, labor, and money. For a complete list of accessories, request submittal BPCS-3082.

| Item No. | Quantity | Descripion | Perspective | Application |
| :---: | :---: | :---: | :---: | :---: |
| dWacs FZDWACS | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ | Drywall Attachment Clip faciilitates transition from drywal to acoustical ceiling; locks under bulb of grid section to prevent cupwara movement aide ef exposed grid. attachment surface on one side of exposed grid. |  |  |
| DW30C DW45C DW90c FzDW30C FZDW45C FZDW60C FZDW90C | $\begin{aligned} & 250 \\ & 250 \\ & 250 \\ & 250 \\ & 50 \\ & 50 \\ & 50 \\ & 50 \\ & 50 \end{aligned}$ | 30-, 45-, 60-, and 90-degree Drywall Angle Clips are used to create positive and secure angles for drywall and ceiling installations on either main beams or cross tees. |  | $\mid$ |
| DW58LT FZDW58LT | $\begin{aligned} & 125 \\ & 50 \end{aligned}$ | DW58LT - Transition Clip for $5 / 8$ " Drywall with Locking Tabs; facilitates transition from drywall to acoustical drywall bead. Locking tabs provide secure location for Drywall Grid System tees. |  | $\sqrt{2}$ |
| DW50LT FZDW50LT | $\begin{aligned} & 125 \\ & 50 \end{aligned}$ | DW50LT - Transition Clip for $1 / 2$ " Drywall with Locking Tabs: facilitates transition from drywall to acoustical Tabs; facilitates transition from drywall to acoustical ceiling; one-sided hold a drywall bead. Locking tabs provide secure location for Drywall Grid System tees. |  | $5$ |
| $\begin{aligned} & \text { IIC } \\ & \text { IC2 } \end{aligned}$ | $\begin{aligned} & 36 \\ & 36 \end{aligned}$ | Impact Isolation Clip (IIC) for use with HD8906IIC <br> drywall grid main beam. Provides up to 8 points <br> of IIC improvement to ensure your project <br> meets $\operatorname{BC}$ requirements. <br> IIC2 for use with HD8906IIC drywall grid main beam. For conditions requiring two layers of drywall. Clip Color: Green IIC Clip must be used with HD8906IIC Drywall Grid Main Beam |  |  |
| MBSC2 | 200 | Main Beam Spacer Clip (2" in length) is used to space two parallel main beams 2" O.C. for air supply or return. |  |  |
| GSC9 <br> GSC12 <br> GSC16 <br> FZGSC9 <br> FZGSC12 <br> FZGSC16 | $\begin{aligned} & 100 \\ & 100 \\ & 100 \\ & 50 \\ & 50 \\ & 50 \\ & 50 \end{aligned}$ | Adjustable Grid Spacer Clip is used to space two parallel main beams for light fixtures, air diffusers, etc.; allows fo $1 / 4$ " adjustments with three different clips. |  |  |
| RC2AG FZRCZAG | $\begin{aligned} & 205 \\ & 50 \end{aligned}$ | RC2 - Radius Clip is used for drywall applications which form curved installations: attaches to the cavity side of form curved installations; attaches to the side web of the main beam with four $7 / 16$ " pan head screws. Install at all knockout locations. | 0 8 <br> $\circ$ 00 <br> 0 $\circ \circ$ |  |
| $\stackrel{R}{\text { RC1 }}$ | $\begin{aligned} & 200 \\ & 50 \end{aligned}$ | RC1 - Splice Clip is used as a main beam splice or partition top trim splice. | $\cdots$ |  |


| Item No. | Quantity | Description | Perspective | Application |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \begin{array}{l} \text { ХTAC } \\ \text { FZXTAC } \end{array} \end{aligned}$ | $\begin{aligned} & 100 \\ & 50 \end{aligned}$ | Cross Tee Adapter Clip - is used to attach field cut cross tees to main beams. |  |  |
| $\begin{aligned} & \begin{array}{l} \text { DDC } \\ \text { FZDDC } \end{array} \end{aligned}$ | $\begin{aligned} & 250 \\ & 50 \\ & 50 \end{aligned}$ | Double Drywall Clip to hang suspension system below existing 1-1/2" grid face, transfering weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heayy accessories; allows for double layer of $5 / 88$ gypsum board. |  |  |
| $\begin{aligned} & \text { DLCC } \\ & \text { FZDLCC } \end{aligned}$ | $\begin{aligned} & 250 \\ & 50 \end{aligned}$ | Direct Load Ceiling Clip to hang suspension system below existing $15 / 16$ " grid face, transferring weight directly to hanger wire; may be used to preserve the fire rating of an existing ceiling and to support heavy accessories. | $\left[\begin{array}{l} 1 \\ 0 \\ 0 \end{array}\right.$ |  |
| DWC | 250 | Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure. |  |  |
| mBAC FZMBAC | $\begin{aligned} & 70 \\ & 50 \end{aligned}$ | 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 suspension system face free of screw holes. | $\Delta>$ |  |
| CBS4SS CBS6SS CBS8SS CBS10SS CBS12SS | 50 50 50 50 50 | 4", 6", 8", 10", and 12" CBS Hangers - Channel Beam Support Hanger for SimpleSoffit ${ }^{\text {TM }}$ is used for easier C Channel installations (New York City market only). | $5$ |  |
| CBS4A | 200 | $4 ", 6 ", 8 ", 10$ ", and 12 " Channel Beam Splice Used to suspend main beams to $1-1 / 2$ " black iron carrying channels CBS2004A (4"), CBS2006A (6"), and CBS2008A (8") used for 2" black iron carrying channels | Ch |  |
| CBS6A | 200 |  |  |  |
| CBS8A | 200 |  |  |  |
| CBS10A | 150 |  |  |  |
| CBS12A | 150 |  |  |  |
| CBS2004A | 75 |  |  |  |
| CBS2006A | 75 |  |  |  |
| CBS2008A | 75 |  |  |  |



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 pre-selected or pre-determined curved radius.
Full range of clips and accessories make installation easier than bending stud and track.

```
Rc2 Clip
*)
```



```
            0.
CH
RC2 Clip must be instaled atallknockout Iocations when used to 
```



How to draw a radius on a template (plywood, gypsum board, etc.)

## 1 Establish a center line. <br> 2 Mark $2^{\prime}$ increments on line perpendicular

to center line.


Install RC2 clip using four screws per clips.

RC2 Clip is used to secure the main beam at the desired angle installing cross tees. Refer to "Making a Template" on page 9 .


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 the chart on page 20).


COMPLETING THE TEMPLATE - OPTION 2


## 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
On the template, mark a rout location reference


1 Hanger wires must be minimum 12 gauge and spaced along the main beams not more than $4^{4}$ O.C. for gypsum board construction
nd not more than $3^{\prime}$ o.c. for plaster work (spaced as required to and not more the
support load).

2 Add vertical braces as required to stabilize the frame.
3 Thickness of the sheeting material is determined by its plasticity Refer to table titled "Drywall Bending Radius" on page 19.
4 For vaults, space the main beams 4' O.C. for gypsum board le or channel molding is used to frame the ends of the structure.



VAULT WITH PERIMETER LIGHT COVE



Domes, like arches, have many variable characteristics that make each design unique. With a suspended drywall grid system, you can easily create the desired look of domes ranging from simple to complex.


## Determine the starting point at the top and bottom of the dome.

Prepare a sheet metal disk or donut for the top of the dome. The disk should be one to two feet in diameter and should be fabricated from steel with a thickness of at least 25 -gauge hickness. Note that the center of the dome may need to be open to receive an electrical box, pole, or some other architectural detail. Refer to "Options for Top of Dome" on page 17

3 Prepare a ring for the base of the dome from rolled angle or channel.
Attach curved main beams to the disk at the top of the dome and to the ring at the bottom with sharp point pan or wafer head screw (by others).
5 Mains should be spaced no greater than 4' O.C. (measured at the bottom ring). Install main beams 2' O.C. for a radius of 15' or less. (Refer to Radius Chart on page 22.)
Use cross tees cut to the appropriate length and screwed to the flange of the main beams to complete the dome frame structure
Cross tees are not required nea the top of the dome when the space between mains becomes less than $16{ }^{\prime \prime}$

8 The sheathing must be cut into pie shaped sections and screw attached to the framework.


Cone






## Saucer Dome Up



Checker Board Dome
(step down)
step down)


## Egg or Elliptical Dome



## Step Up Dome



## Offset 2 way Radius Dome <br> olumn Ring Made from a Metal Angle



| Material | MinimumRadius (dry) | Drywall Bending Radii |  | Maximum Cross Tee Spacing (wet) | Water Required <br> Per Panel (oz.) |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Maximum Cross Tee Spacing (dry) | $\begin{gathered} \text { Minimum } \\ \text { Radius (wet) } \end{gathered}$ |  |  |
| 1/4" Hi-flex Gypsum | $32{ }^{\prime \prime}$ | $9{ }^{9}$ | 20 " concave $14 "$ convex | $8 "$ concave $6 "$ convex | - |
| 1/4" Gypsum | $5{ }^{\prime}$ | $8^{\prime \prime}$ | ${ }^{\prime}$ | $6^{\prime \prime}$ | 30 ounces |
| 3/8" Gypsum | 7-1/2" | - | ${ }^{\prime}$ | $8^{\prime \prime}$ | 35 ounces |
| 1/2" Gypsum | 20' | 16 " | $4 \cdot$ | ${ }^{12}$ | 45 ounces |
| 5/8" Gypsum | $28 \cdot$ | $24 "$ | - | - |  |

NOTE: Refer to gypsum wallboard manufacturef for additional information.

CONTROLJOINTS

Please refer to ASTM C840 Section 20.3.3-20.4 for control requirements.

Non-Module Cut and Screw Application, Metal-to-Metal


Celing expansion joints metal suspension system when expansion joints occur in
buildings, when span is over 100' or when metal changes buildings, when span is over 100 ' or when metal changes direction. Expansion joints are required to separate a
system in $T$-, $H-L$ - and $U$ - or Circle-shaped buildings to system in T -, H -, L - and U - or Circle-shaped buildings to
eliminate cracking from expansion. Expansion and contro joints look similar, but perform different functions.

Radius Dimension

|  | Radius Dimension |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10＇0＇ | $110{ }^{\text {＂}}$ | $12^{12} 0^{\prime \prime}$ | ${ }^{13}{ }^{\prime} 0$ | ${ }^{14}$ | ${ }^{15}$ | ${ }^{16}$＇ 0 ＂ | $17^{\prime \prime} 0$ | ${ }^{18}{ }^{\prime}$ | $19^{\prime} 0$ | $20^{\prime}$ | 210 | $22^{\prime}$ | 23 | $24^{\prime \prime} 0^{\prime \prime}$ |
| ${ }^{\prime}$ | $2 "$ | ／4＂ | $2 "$ | 1－7／8＂ | －3／4＂ | 1－5／8＂ | ／2＂ | 1－1／2＂ | 1－3／8＂ | －1／4＂ | 1－1／4＂ | 1－1／8＂ | －1／8＂ | 1－1／8＂ | $1^{1 \prime}$ |
| ${ }^{\prime}$ | 10＂ | 9－1／8＂ | 8－1／ | 7－5／8＂ | $7{ }^{7}$ | 6－1／2＂ | 6－1／8＂ | 3／4＂ | 5－3／8＂ | 5－1／8＂ | 4－7／8＂ | 5／8＂ | ／8＂ | 4－1／4＂ | $4{ }^{4}$ |
| $6^{\prime}$ | ${ }^{2} 0^{\prime \prime}$ | $\begin{aligned} & 199 \\ & 3 / 88^{\prime \prime} \end{aligned}$ | ${ }^{17}$ | $\begin{aligned} & 1+5-5 \\ & 5 / 88^{\prime \prime} \end{aligned}$ | 4－1／ | ${ }^{1} 3^{\prime \prime}$ | ${ }^{12} 21$ | 1＇1－1／8＂ | $\begin{aligned} & 100 \\ & 3 / 8 / 8{ }^{\prime \prime} \end{aligned}$ | 11－3／4＂ | 11－1／8 | 10－1／2 | 10＂ | 9－5／ | $9-1 / 88^{\prime \prime}$ |
| $8{ }^{\prime}$ | $4^{4} 0^{\prime \prime}$ | $\begin{aligned} & 3,5-1 . \\ & 5 / 80^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 3 \cdot 0- \\ & 3 / 44^{\prime \prime} \end{aligned}$ | $\begin{aligned} & 2_{1}^{1 / 9} 8^{\prime \prime} \end{aligned}$ | $\begin{gathered} 2_{1}^{1 / 6} 8^{\prime} \end{gathered}$ | $\begin{aligned} & \text { 2'3-3- } \\ & 3 / 4 " \end{aligned}$ | 2＇1－3／4＂ | $2^{\prime} 0^{\prime \prime}$ | $\begin{aligned} & 1+10-1 \\ & 1 / 22^{\prime \prime} \end{aligned}$ | 19－1／4＂ | 18 18－1／8＂ | ${ }^{177}$ | 1＇6－1／8＂ | 15－1／4 | $\begin{aligned} & 1414 \\ & 1 / 2{ }^{2} \end{aligned}$ |
|  | $25^{\circ} \mathrm{O}$ | 26＇0＂ | $27^{10} 0$ | 28＇0＂ | 29＇0＂ | 30＇0＂ | ${ }^{12} 0$ | $32{ }^{\text {O＂}}$ | $33^{\prime} 0{ }^{\prime \prime}$ | $34{ }^{\text {a }}$－ | $35^{\prime} 0$ | 36＇ 0 | 7＇0＂ | $38^{\prime} 0^{\prime \prime}$ | $39^{\prime \prime}$ |
| 2 | $1{ }^{14}$ | $1{ }^{10}$ | $7 / 8{ }^{\prime \prime}$ | 7／8＂ | 78＂ | $7 / 8{ }^{\prime \prime}$ | 3／4＂ | 3／4＂ | $3 / 44^{\prime \prime}$ | 3／4＂ | 3／4＂ | 3／4＂ | 5／8＂ | 5／8＇ | 5／8＂ |
| $4 \cdot$ | 3－7／8＂ | 3－3／4＂ | 35／8＂ | 3－1／2＂ | 3－3／8＂ | 3－1／14＂ | 3－1／8＂ | $3^{\prime \prime}$ | 3＂ | 2－7／8＂ | 2－3／4 | 2－3／4 | 2－5／8＂ | 2－5／8 | 2－1／2＂ |
| $6^{\prime}$ | $8-3 / 44^{\prime \prime}$ | 8－1／2＂ | 81／2＂ | 7－7／8＂ | 7－1／2＂ | 7－1／4＂ | 7－1／8＂ | 6－7／8 | 6－5／8 ${ }^{\text {b }}$ | 6－3／8＂ | 6－1／4 ${ }^{4}$ | 6－1／8 | 5－7／8＂ | 5－3／4 | 5－5／ |
| $8{ }^{\prime}$ | ${ }^{13} 3 / 3 / 4{ }^{\prime \prime}$ | ${ }^{13} 31 / 88^{\prime \prime}$ | ${ }^{1} 25 / 8^{\prime \prime}$ | ${ }^{1} 2{ }^{\prime \prime}$ | ${ }^{12-1 / 2 / 2}$ | $11-1 / 88^{\prime \prime}$ | $\begin{aligned} & 100 \\ & 5 / 8^{\prime \prime} \end{aligned}$ | $100-1 / 4^{\prime \prime}$ | 11－1／2＂ | 11－1／2＂ | 11－1／ | 10－7／8＂ | 10－1／2＂ | 10－1／4 | 10＂ |
|  | $40^{\circ} 0^{-\prime}$ | $41^{\prime \prime} 0$ | 42＇ $0^{\prime \prime}$ | $43^{\prime} 0^{\prime \prime}$ | $44^{\circ} \mathrm{OH}$ | $45^{\prime} 0$ | $46^{\prime} 0$ | $4^{\prime} 0$ | $48^{\prime}$ | $49^{\prime}$ | 50＇0＂ | 5100 | $52^{\prime}$ | 53 | $54^{\prime} 0$ |
| $2^{\prime}$ | 5／8＂ | 5／8＂ | 5／8＂ | 5／8＂ | 5／8＂ | 5／8＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | $1 / 2^{\prime \prime}$ |
| $4 \cdot$ | 2－3／8＂ | 2－3／8＂ | 2－3／8＂ | 2－1／4＂ | ${ }^{2-1 / 88^{\prime \prime}}$ | 2－1／8＂ | $2-1 / 88^{\prime \prime}$ | $2-1 / 88^{\prime \prime}$ | $2{ }^{2}$ | $2^{\prime \prime}$ | $2{ }^{1}$ | 1－7／8＂ | 1－7／8＂ | 1－3／4＂ | 1－3／4＂ |
| $6^{\prime}$ | 5－1／2＂ | 5－3／8＂ | 5－1／4＂ | 5－1／8＂ | $5{ }^{\text {＂}}$ | 4－7／8＂ | 4－3／4＂ | 4－5／8＂ | 4－1／2＂ | 4－1／2＂ | 4－3／8＂ | 4－1／4＂ | 4－1／4＂ | 4－1／4＂ | 4＂ |
| 8 | 9－3／4＂ | 9－1／2＂ | 9－1／4＂ | $9{ }^{9}$ | $8-7 / 8{ }^{\prime \prime}$ | 8－5／8＂ | 8－1／2＂ | 8－1／4＂ | 8－1／8＂ | 7－7／8＂ | 7－3／4＂ | 7－5／8＂ | 7－1／2＂ | 7－3／8＂ | 7－1／8＂ |
|  | 55＇${ }^{\text {0／}}$ | $56^{\prime \prime} 0^{\prime \prime}$ | $57^{\prime \prime} 0^{\prime \prime}$ | $58^{\prime \prime} 0$ | $0^{\prime \prime}$ | O＂ | $0^{\circ}$ | ＇0＂ | 63＇${ }^{\prime \prime}$ | $64^{\circ} 0^{\prime \prime}$ | 65＇${ }^{0}$ | $6^{6}{ }^{\prime \prime}$ | 67＇0＂ | 68＇0 | $69^{\prime} 0^{\prime \prime}$ |
| 2 | $1 / 2^{\prime \prime}$ | $1 / 2{ }^{1}$ | $1 / 2^{\prime \prime}$ | 1／2＂ | $1 / 2^{\prime \prime}$ | 3／8＂ | 3／8＂ | $3 / 8{ }^{\prime \prime}$ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ |
| $4^{\prime}$ | 1－3／4＂ | 1－3／4＂ | 1－3／4＂ | 1－3／4＂ | 1－5／8＂ | 1－5／8＂ | 1－5／8＂ | 1－5／8＂ | 1－1／2＂ | 1－1／2＂ | 1－1／2＂ | 1－1／2＂ | 1－1／2＂ | 1－1／2＂ | 1－3／8＂ |
| $6^{\prime}$ | $4{ }^{4}$ | 3－7／8＂ | 3－7／8＂ | 3－3／4＂ | 3－3／4＂ | 3－5／8＂ | 3－5／8＂ | 3－1／2＂ | 3－1／2＂ | 3－3／8＂ | 3－3／8＂ | 3－1／4＂ | 3－1／4＂ | 3－1／4＂ | 3－1／8＂ |
| $8{ }^{\prime}$ | $7{ }^{7}$ | 6－7／8＂ | 6－3／4＂ | 6－5／8＂ | 6－5／8＂ | 6－1／2＂ | 6－3／8＂ | 6－1／4＂ | 6－1／8＂ | 6 ＂ | $6{ }^{6}$ | 5－7／8＂ | 5－3／4＂ | 5－3／4＂ | 5－5／8＂ |
|  | 70＇ 0 ＂ | 710 | $72^{\prime \prime} 0$ | $73^{\prime \prime} 0^{\prime \prime}$ | $74^{\circ} 0$ | ＇0＂ | $76{ }^{\circ} 0$ | 7710 | $78{ }^{\prime} 0$ | $79{ }^{\text {0 }}$ | 80＇ 0 ＂ | $81{ }^{10}$ | $82^{\prime} 0^{\prime \prime}$ | 83＇${ }^{\text {＂}}$ | $84^{\prime} 0^{\prime \prime}$ |
| $2^{\prime}$ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | 3／8＂ | $3 / 8{ }^{\prime \prime}$ | 3／8＂ | 3／8＂ | 3／88＂ | 3／8＂ |
| $4 \cdot$ | 1－3／8＂ | 1－3／8＂ | 1－3／8＂ | 1－3／8＂ | 1－3／8＂ | 1－1／4＂ | 1－1／4 | 1－1／4／ | 1－1／4 | 1－1／4＂ | 1－1／4＂ | 1－1／4＂ | ${ }^{1-1 / 44^{\prime \prime}}$ | 1－1／4＂ | 年 |
| $6^{\prime}$ | 3－1／8＂ | 3－1／8＂ | $3^{\prime \prime}$ | $3^{\prime \prime}$ | 3＂ | 2－7／8＂ | 2－7／8＂ | 2－7／8＂ | 2－3／4＂ | 2－3／4＂ | 2－3／4＂ | 2－3／4＂ | 2－5／8＂ | 2－5／8＂ | 2－5／8＂ |
| $8{ }^{\prime}$ | 5－1／2＂ | 5－1／2＂ | 5－3／8＂ | 5－1／4＂ | 5－1／4＂ | 5－1／8＂ | 5－1／8＂ | $5{ }^{\text {＂}}$ | 5 ＂ | 4－7／8＂ | 4－7／8＂ | 4－3／4＂ | 4－3／4＂ | 4－5／8＂ | 4－5／8＂ |
|  | $85^{\prime} 0^{\prime \prime}$ | $86^{\prime} 0$ | $87^{\prime} 0{ }^{\prime \prime}$ | $88^{\prime} 0$ | $89^{\prime 0} 0$ | 90＇0＂ | 9100 | 92＇${ }^{\prime \prime}$ | $93^{\prime} 0{ }^{\prime \prime}$ | $94^{\circ} 0$ | $95^{\prime} 00$ | $96{ }^{\circ} 0$ | $97{ }^{10}$ | $98^{\prime} 0$ | ${ }^{99} 0^{\prime \prime}$ |
| ${ }^{\prime}$ | 3／8＂ | $1 / 4{ }^{\text {＂}}$ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | $1 / 4{ }^{\prime \prime}$ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ |
| $4^{\prime}$ | ${ }^{1-1 / 88^{\prime \prime}}$ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | 1－1／8＂ | ${ }^{17}$ | $1{ }^{17}$ | ${ }^{17}$ | $1{ }^{1 \prime}$ | $1{ }^{17}$ | $1{ }^{1 \prime}$ |
| $6^{\prime}$ | 2－5／8＂ | 2－1／2＂ | 2－1／2＂ | 2－1／2＂ | 2－1／2＂ | 2－3／8＂ | 2－3／8＂ | 2－3／8＂ | 2－3／8＂ | 2－3／8＂ | 2－1／4＂ | 2－1／4＂ | 2－1／4＂ | 2－1／4＂ | 2－1／4＂ |
| $8{ }^{\prime}$ | 4－1／2＂ | 4－1／2＂ | 4－1／2＂ | 4－3／8＂ | 4－3／8＂ | 4－1／14＂ | 4－1／4＂ | 4－1／4＂ | 4－1／8＂ | 4－1／8＂ | 4－1／8＂ | $4{ }^{4}$ | $4{ }^{4}$ | $4{ }^{4}$ | 3－7／8＂ |
|  | $100^{\prime} 0^{\prime \prime}$ | 105＇${ }^{\text {o }}$ | $110^{\prime} 0$ | $115{ }^{\text {0 }}{ }^{\prime \prime}$ | $120{ }^{\circ}$ | $125{ }^{\text {＇}}{ }^{\prime \prime}$ | ${ }^{13}{ }^{\prime} 0^{\prime}$ | ${ }^{135}{ }^{\prime} 0^{\prime \prime}$ | ${ }^{140} 0^{\prime} 0$ | $145^{\prime} 0$＂ | $150^{\prime} 0$ | ${ }^{155} 5^{\prime \prime} 0^{\prime \prime}$ | 160＇0＂ | 165＇${ }^{\text {o＇}}$ | 170＇0＇ |
| $2^{\prime}$ | 1／4＂ | 1／4＂ | $1 / 4{ }^{\prime \prime}$ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | 1／4＂ | $1 / 44^{\prime \prime}$ | 1／4＂ | 1／8＂ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ |
| 4 | $1{ }^{1 \prime}$ | ${ }^{10}$ | 7／8＂ | 7／8＂ | 7／8＂ | 3／4＂ | 3／4＂ | 3／4＂ | 3／4＂ | 3／4＂ | 5／8＇ | 5／8＂ | 5／8＂ | 5／8＂ | 5／8＂ |
| $6^{\prime}$ | 2－1／4＂ | 2－1／8＂ | $2^{\prime \prime}$ | 1－7／8＂ | 1－7／8＂ | 1－3／4＂ | 1－3／4＂ | 1－5／8＂ | 1－5／8＂ | 1－1／2＂ | 1－1／2＂ | 1－3／8＂ | 1－3／8＂ | 1－3／8＂ | 1－1／4＂ |
| $8{ }^{\prime}$ | 3－7／8＂ | 3－3／4＂ | 3－1／2＂ | 3－3／8＂ | 3－1／4＂ | 3－1／8＂ | 3 ＂ | 2－7／8＂ | 2－3／4＂ | 2－3／4＂ | 2－5／8＂ | 2－1／2＂ | 2－3／8 | 2－3／8 | 2－1／ |
|  | $175{ }^{\prime} 0{ }^{\prime \prime}$ | $180^{\circ} 0^{\prime \prime}$ | $185^{\prime} 0$ | 190＇0＂ | $195{ }^{\text {0 }}$ | $200^{\prime \prime}$ | $210^{\prime} 0^{\prime \prime}$ | $2200^{\prime \prime}$ | 230＇0＂ | 240＇0＂ | $250^{\circ} 0^{\prime \prime}$ |  |  |  |  |
| $2^{\prime}$ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | 1／8＂ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | $1 / 8^{\prime \prime}$ | 1／8＂ | $1 / 8^{\prime \prime}$ |  |  |  |  |
| $4^{\prime}$ | 5／8＂ | 5／8＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 1／2＂ | 3／8 | $3 / 8{ }^{\prime \prime}$ | 3／8 |  |  |  |  |
| 6 | 1－1／4＂ | 1－1／4＂ | 1－1／4＂ | 1－1／8＂ | ${ }^{1-1 / 88^{\prime \prime}}$ | ${ }^{1-1 / 88^{\prime \prime}}$ | $1{ }^{11}$ | $1{ }^{17}$ | $1{ }^{17}$ | $78^{\prime \prime}$ | 7／8＂ |  |  |  |  |
| ${ }^{\prime}$ | 2－1／4＂ | 2－1／8＂ | 2－1／8＂ | $2^{\prime \prime}$ | $2 "$ | $2^{\prime \prime}$ | 1－7／8＂ | 1－3／4＂ | 1－5／8＂ | 1－5／8＂ | 1－1／2＂ |  |  |  |  |


| Item Number | Length | Pcs／Ctn． | LF／Ctn． | Lbs．／Ctn． |  |  | ceilin | 倍 | 兂 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | $\begin{aligned} & 8_{0 .}^{8 " .} \end{aligned}$ | 16 ＂ 0．c． | $\begin{aligned} & 24 " 1 \\ & 0 . c . \end{aligned}$ | $\begin{aligned} & 36^{\prime \prime} \\ & \text { 0.c. } \end{aligned}$ | $\begin{aligned} & 48^{\prime \prime} . \\ & 0.0 \end{aligned}$ | $\begin{aligned} & 50 " 1 \\ & { }^{50 . c} . \end{aligned}$ |  |
| DRYWALL／STUCCO GRID MAIN BEAM |  |  |  |  |  |  |  |  |  |  |  |
| HD8901 | 144＂ | 20 | 240 | 71 |  |  | 480 | 720 | 960 | 1000 | sq．ft． |
| HD8906／HD8906690 | 144＂ | 12 | 144 | 53 |  |  | 288 | 432 | 576 | 600 | sq．ft． |
| HD8906F08／HD8906F16 | 144＂ | 12 | 144 | 53 |  |  |  |  |  |  | sq．ft． |
| DRYWALL／STUCCO GRID 1－1／2＂FACE CROSS TEES |  |  |  |  |  |  |  |  |  |  |  |
| XL8965 | $72{ }^{\prime \prime}$ | 36 | 216 | 78 | 144 | 288 | 432 |  |  |  | sq．ft． |
| XL8947P／XL8947PG90＊＊ | 50 | 36 | 150 | 56 | 100 | 200 | 300 |  |  |  | sq．ft． |
| XL8945P／XL8945PG90 | $48{ }^{\prime \prime}$ | 36 | 144 | 52 | 96 | 192 | 288 |  |  |  | sq．ft． |
| XL7936690 | 36 ＂ | 36 | 108 | 39 |  | 144 | 216 |  |  |  | sq．ft． |
| XL8926／XL8926690 | ${ }^{24}{ }^{\prime \prime}$ | 36 | 72 | 26 | 48 |  |  |  |  |  | sq．ft． |

## Rem Number

| REVERSE MOLDINGS |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
| 7857 | $120 "$ | 30 | 360 | 51 |
| 7858 | $120 "$ | 20 | 240 | 67 |
| DRYWALLANGLE MOLDING |  |  |  |  |
| HD7801690 | $1200^{\prime \prime}$ | 30 | 300 | 38 |
| KAM－12 | $144^{\prime \prime}$ | 30 | 360 | 31 |
| KAM－10 | $120 "$ | 30 | 300 | 49 |
| LAM－12 | $144^{\prime \prime}$ | 30 | 360 | 31 |
| LAM－151220E | $144^{\prime \prime}$ | 10 | 120 | 39 |
| SIMPLECURVE |  |  |  |  |
| SC151220EQ | $148^{\circ}$ | 10 | 124 | 40 |
| SC151225 | $148^{\circ}$ | 10 | 124 | 26 |
| SC21220EQ | $148^{\prime \prime}$ | 10 | 124 | 52 |
| SC21225 | $148^{\prime \prime}$ | 10 | 124 | 34 |


| Estimating Lineal Feet of Grid Based on Square Footage of Ceiling |  |
| :---: | :---: |
| o．c．Spacing <br> of Component | Percent of <br> Square Footage |
| $8^{\prime \prime}$ | $108 \%$ |
| $12 "$ | $100 \%$ |
| $16^{\prime \prime}$ | $76 \%$ |
| $20 "$ | $60 \%$ |
| $24^{\prime \prime}$ | $50 \%$ |
| $30^{\prime \prime}$ | $40 \%$ |
| $36^{\prime \prime}$ | $33 \%$ |
| $48^{\prime \prime}$ | $25 \%$ |
| $60 "$ | $20 \%$ |

Example calculation based on 5,100 SF ceriling
Main beam at 48＂0．C．
at 48 ＂ $0 . C$ ．
5,100 SF x． $25=1,275 \mathrm{LF}$
$1275 \mathrm{LF} \div 144 \mathrm{LF} / \mathrm{Ctn}=9$ cartons needed
Cross tee at 16＂O．C．
5.100 SF $\times .76=3,876 \mathrm{LF}$
$876 \mathrm{LF} \div 144 \mathrm{LF} / \mathrm{Ctn}=27$ cartons needed


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