



FRAMEALL™ DRYWALL GRID

HANGING & FRAMING
CURVED CEILINGS
TECHNICAL GUIDE

FASTER. EASIER. BETTER.

FrameAll™ 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

FRAMEALL™ Drywall Grid

Code Compliance You Can Trust

Meets:

- ASTM C635
- ASTM C645
- ASTM C840
- ASTM C754
- City of LA – RR 25348
- International Building Code, Continuous Membrane, One Level.
- Per Section 25.210 single level drywall ceilings 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
- IBC categories D, E and F single layer drywall

ceilings are exempt from lateral force bracing requirements, regardless of room size.

- Consult local codes for specific requirements.

Performance (continued...)

- PeakForm® patented 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 install
- 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
- Knurled Ridges on cross tees for speed of screw insertion during board installation





FRAMEALL™ DRYWALL GRID

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Performance

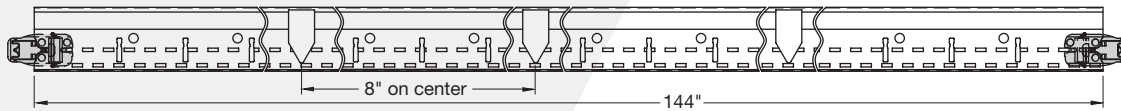
(... continued)

- ScrewStop™ reverse hem prevents screw spin off on 1-1/2" wide face
- Faceted main beam – pre-notched main beam to simplify assembly of curved sections; all notched locations along main beam require installation of RC2 clip
HD8906F08 – Prenotched 8" O.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
- G90 Hot dipped galvanized coating – superior corrosion resistance for exterior applications (HD8906F08 and HD8906F16 not available in G90 coating)
- Cross tee spacing:
24" O.C. for 5/8" drywall
16" O.C. for 1/2" drywall
8" O.C. for tight radius

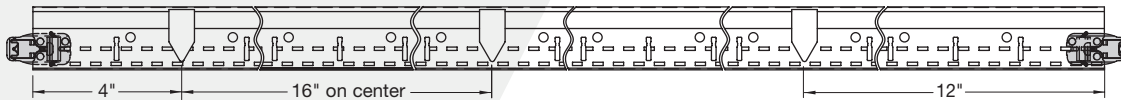
COMPONENTS

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)



MAIN BEAMS

Item Number	Length	Face Dimension	Profile Height	Duty Load	Fire Rated	Routs	Load Test Data (Lbs./LF)						Perspective
							L/360 wires at			L/240 wires at			
							2'	3'	4'	2'	3'	4'	
HD8906 HD8906G90 HD8906HRC	144"	1-1/2"	1-11/16"	Heavy Duty	Yes	51 routs – starting 2-1/4" from each end†	95.5	43.19	18.66	143.0	57.3	28.14	
HD8906F08* HD8906F16*	144"	1-1/2"	1-11/16"	–	No	HD8906F08 51 Routs HD8906F16 42 Routs starting 2-1/4" from each end†	–	–	12.3	–	–	18.4	

* Tested flat per ASTM C635 with RC2 clips at each faceted location

† Type "F" fixture compatible

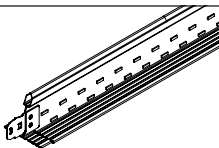
CROSS TEES

Item Number	Length	Face Dimension	Profile Height	Fire Rated	Routs	Load Test Data (Lbs./LF)						Perspective
						L/360 wires at			L/240 wires at			
						2'	3'	4'	2'	3'	4'	
XL8965	72"	1-1/2"	1-1/2"	No	6 routs – starting 24" from each end†	72"			72"			
						4.58			6.87			
XL8947P XL8947PG90*	50"	1-1/2"	1-1/2"	Yes	8 routs – starting 10" from each end†	50"			50"			
						12.79			19.5			
XL8945P XL8945PG90* XL8945HRC	48"	1-1/2"	1-1/2"	Yes	9 routs – center rout and starting 10" from each end†	2'	3'	4'	2'	3'	4'	
						–	–	14.27	–	–	22.5	
XL7936G90*	36"	1-1/2"	1-1/2"	No	none	–	33.13	–	–	50	–	

† Type "F" fixture compatible

* G90 Cross Tees are not manufactured with knurled ridges

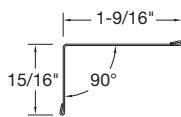

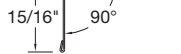

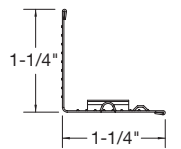
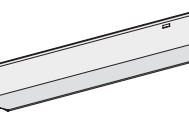
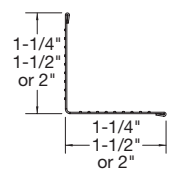
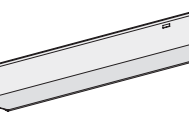
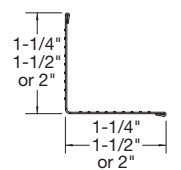
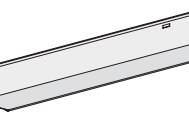
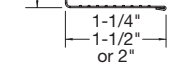
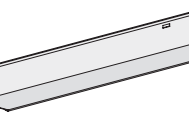
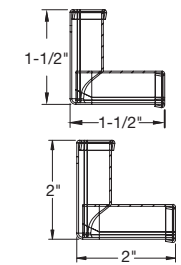
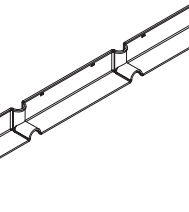
CROSS TEES

Item Number	Length	Face Dimension	Profile Height	Fire Rated	Routs	Load Test Data (Lbs./LF)						Perspective
						L/360 wires at			L/240 wires at			
						2'	3'	4'	2'	3'	4'	
XL8926 XL8926G90*	24"	1-1/2"	1-1/2"	Yes	3 routs – center rout and 10" from each end†		90.25			158.0		

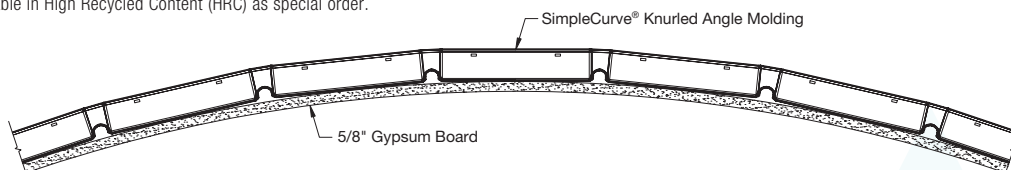
† Type "F" fixture compatible

* G90 Cross Tees are not manufactured with knurled ridges

WALL MOLDING

Item Number	Length	Description	Profile	Perspective
7858	144"	Reverse Angle Molding nominal 1-9/16" x 15/16"		
KAM10	120"	Knurled Angle Molding nominal 1-1/4" x 1-1/4"		
KAM12 KAM12G90 KAM12HRC	144"	Knurled Angle Molding nominal 1-1/4" x 1-1/4"		
KAM1510 KAM1512 KAM151020 KAM151020EQ	120" 144"	Knurled Angle Molding nominal 1-1/2" x 1-1/2" (KAM1510 & KAM1512 - 25 ga.; KAM151020 - 20 ga.; KAM151020EQ - 22 ga.)		
KAM21020 KAM21025 KAM21020EQ	120" 144"	Knurled Angle Molding nominal 2" x 2" (20 ga.) (KAM21020 - 20 ga.; KAM21025 - 25 ga.; KAM21020EQ 22 ga.)		
LAM12 LAM12G90 LAM12HRC LAM151220E	144"	Locking Angle Molding nominal 1-1/4" x 1-1/4" 1-1/2" x 1-1/2"		
SC151220EQ SC151225 SC21220EQ SC21225	148" 148" 148" 148"	SimpleCurve® Knurled Angle Molding (SC151220EQ 12' x 1.5" & SC21220EQ 12' x 2" – 20 ga.; SC151225 12' x 1.5" & SC21225 12' x 2" – 25 ga.)		

NOTE: All items available in High Recycled Content (HRC) as special order.



CORROSION PREVENTION

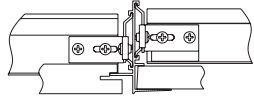
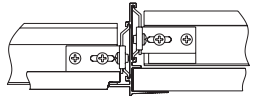
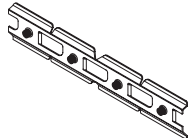
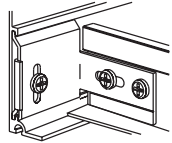
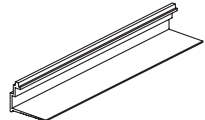
Corrosion prevention is an essential factor in the economical utilization of galvanized sheet metal for ceiling grid. Armstrong provides G40 for interior construction per ASTM C645. When conditions include exposure to extreme moisture and salt water, G90 is available per ASTM A653.

NOTE: High Recycled Content (HRC) grid items are available as a special order.

AXIOM® TRIM

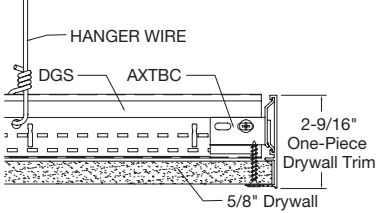
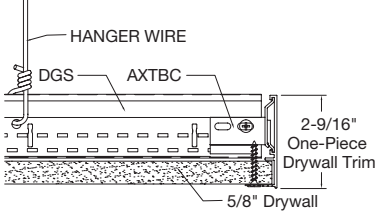
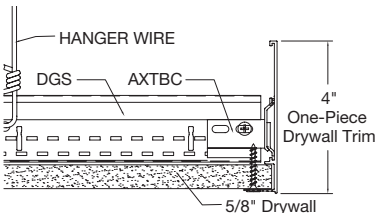
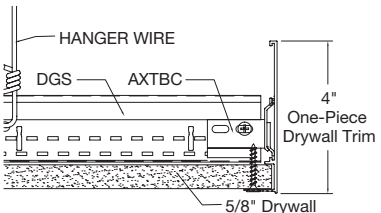
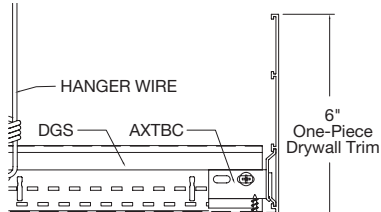
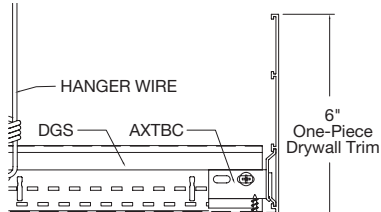
AXIOM® TRANSITIONS TRIM

Material: Extruded aluminum, alloy 6063

Item Number	Length/Item Description	Dimensions	
AXTRVESTR	Straight Transition for Vector®	120 x 2-9/16 x 1-11/16"	 <p>Axiom® – Transitions with Vector® panel to drywall perimeter (AXTRVESTR)</p>
AXTRTECUR	Curved Transition for Tegular	120 x 2-9/16 x 1-11/16"	 <p>Axiom® – Transitions with Tegular panel to drywall perimeter (AXTRTESTR, AXTRTECUR)</p>
AXTR2STR	2" Straight Transition	120 x 2 x 1-1/2"	
AXTR2CUR	2" Curved Transition	120 x 2 x 1-1/2"	
AXTR4STR	4" Straight Transition	120 x 4 x 1-1/2"	
AXTR4CUR	4" Curved Transition	120 x 4 x 1-1/2"	
AXTR6STR	6" Straight Transition	120 x 6 x 1-1/2"	
AXTR6CUR	6" Curved Transition	120 x 6 x 1-1/2"	
AXTR8STR	8" Straight Transition	120 x 8 x 1-1/2"	
AX4SPICEB	Splice Plate	–	
AXTBC	T-Bar Connector Clip	–	
AXBSTR	Drywall Bottom Trim	120 x 1-1/8 x 27/32"	

AXIOM® ONE-PIECE DRYWALL TRIM

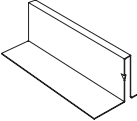
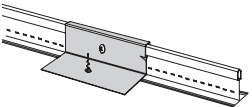
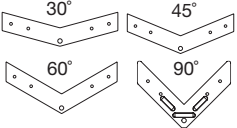
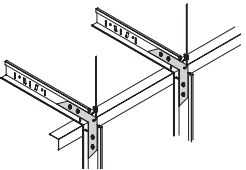
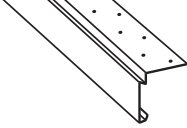
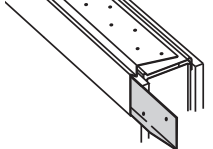
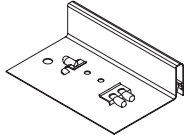
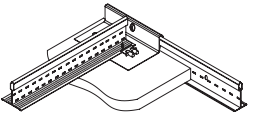
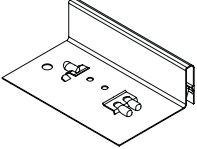
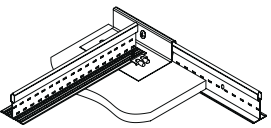
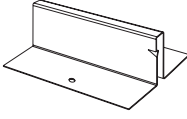
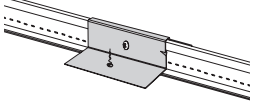
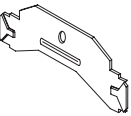
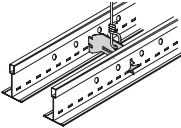

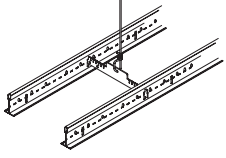
Material: Commercial-quality, hot dipped galvanized steel

Item Number	Length/Item Description	
AX1PC2STR	2-1/2" One-Piece Straight Drywall Trim	
AX1PC2CUR	2-1/2" One-Piece Curved Drywall Trim	
AX1PC4STR	4" One-Piece Straight Drywall Trim	
AX1PC4CUR	4" One-Piece Curved Drywall Trim	
AX1PC6STR	6" One-Piece Straight Drywall Trim	
AX1PC6CUR	6" One-Piece Curved Drywall Trim	

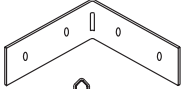
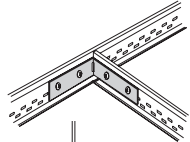
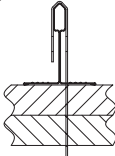
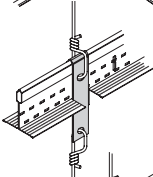
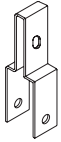
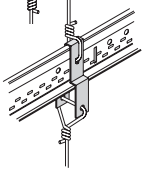

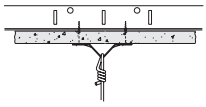
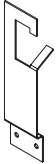
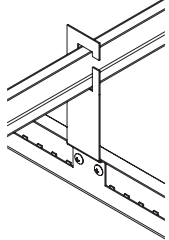
ACCESSORIES

DRYWALL GRID ACCESSORIES

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 Number	Quantity	Description	Perspective	Application
DWACS	100	Drywall Attachment Clip facilitates transition from drywall to acoustical ceiling; locks under bulb of grid section to prevent upward movement and provide secure attachment surface on one side of exposed grid.		
DW30C DW45C DW60C DW90C	250 250 250 250	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.		
TT10	30	Partition Top Trim is used to finish the top of a drywall partition for a continuous drywall/acoustical ceiling interface.		
DW58LT	125	DW58LT-Transition Clip for 5/8" Drywall with Locking Tabs; facilitates transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates need for drywall bead. Locking tabs provide secure location for DGS tees.		
DW50LT	125	DW50LT-Transition Clip for 1/2" Drywall with Locking Tabs; facilitates transition from drywall to acoustical ceiling; one-sided hold-down clip; eliminates the need for a drywall bead. Locking tabs provide secure location for DGS tees.		
MBAC	70	Main Beam Adapter Clip attaches to web of grid section; provides larger surface for screw attachment; used as a hold-down clip for thin material (metal or plastic lay-in panels); fastens drywall track to underside of exposed grid with lay-in panels, leaving grid face free of screw holes.		
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 GSC12 GSC16	100 100 100	Adjustable Grid Spacer Clip is used to space two parallel main beams for light fixtures, air diffusers, etc.; allows for 1/4" adjustments with three different clips.		

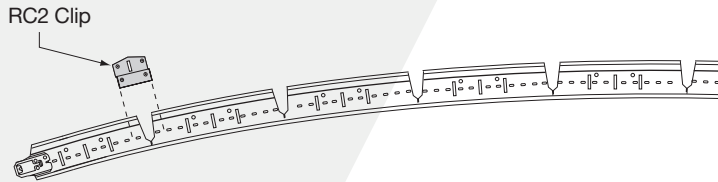
DRYWALL GRID ACCESSORIES (CONTINUED)

Item Number	Quantity	Description	Perspective	Application
XTAC	100	Cross Tee Adapter Clip – is used to attach field cut cross tees to main beams		
DDC	250	Double Drywall Clip to hang suspension system below existing 1-1/2" 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; allows for double layer of 5/8" gypsum board.		
DLCC	250	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.		
DWC	250	Drywall Clip allows for a "second" ceiling to be installed below a drywall ceiling; attach through installed drywall to supporting structure.		
BPCBS4SS BPCBS6SS BPCBS8SS BPCBS10SS BPCBS12SS	50 50 50 50 50	4", 6", 8", 10", and 12" CBS Hangers – Channel Beam Support Hanger for SimpleSoffit™ is used for easier C Channel installations (New York City market only).		

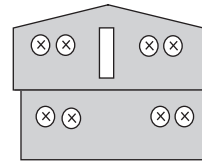
CURVED MAIN BEAMS

CREATING CURVES

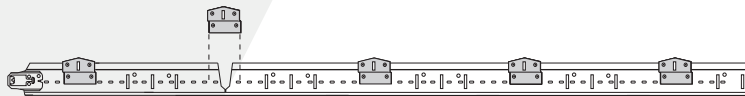
- Creating curved framing for drywall is easy and offers unlimited possibilities.
- Custom radii to suit any design installation.
- You control the curve.
- Not limited to a pre-selected or pre-determined curved radius.
- Full range of clips and accessories make installation easier than bending stud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



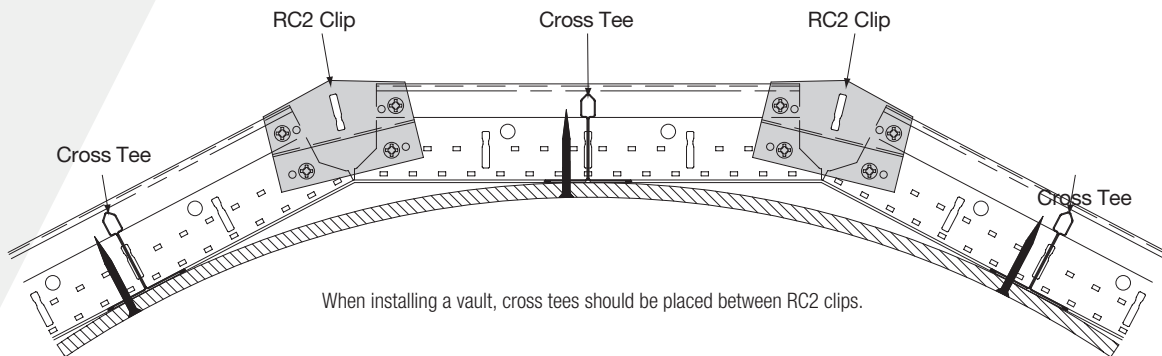
Radius and drywall thickness will determine on-center spacing of cuts. Refer to "Establishing An Arc" on page 9 for creating a curved template.



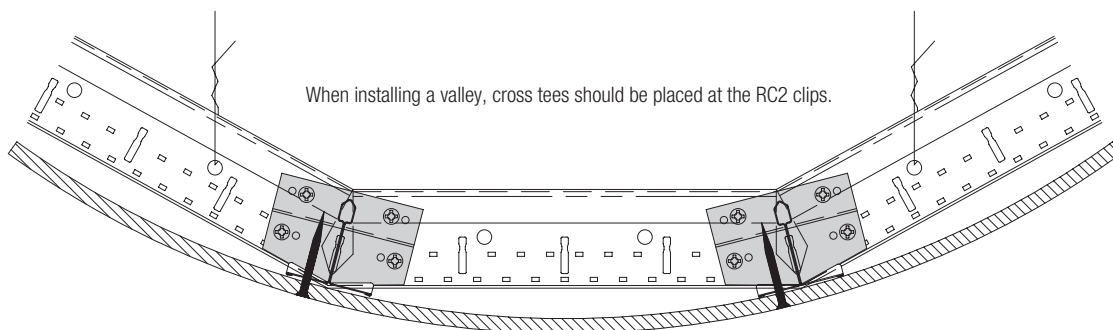
Install RC2 clip using four screws per clips.
RC2 Clip is used to secure the main beam at the desired angle in curved ceiling with rout for installing cross tees. Refer to "Making a Template" on page 9.



RC2 Clip must be installed at all knockout locations when used to frame a flat or curved ceiling.



When installing a vault, cross tees should be placed between RC2 clips.



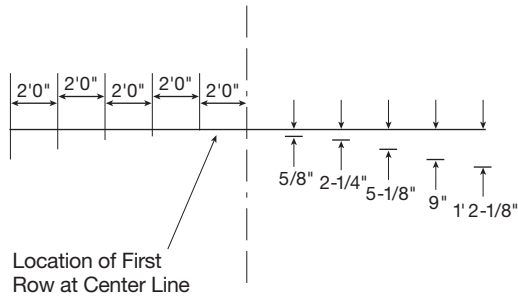
When installing a valley, cross tees should be placed at the RC2 clips.

ESTABLISHING AN ARC

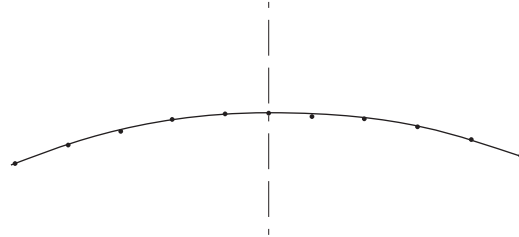
How to draw a radius on a template
(plywood, gypsum board, etc.)

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

Example: 43' arc using chart on page 16.



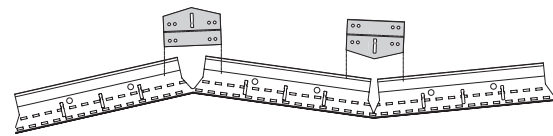
- 3 At 2' marks, identify points of arc below perpendicular line (maintain consistent spacing of point). See radius charts on page 20.
- 4 Connect points to form a smooth arc.



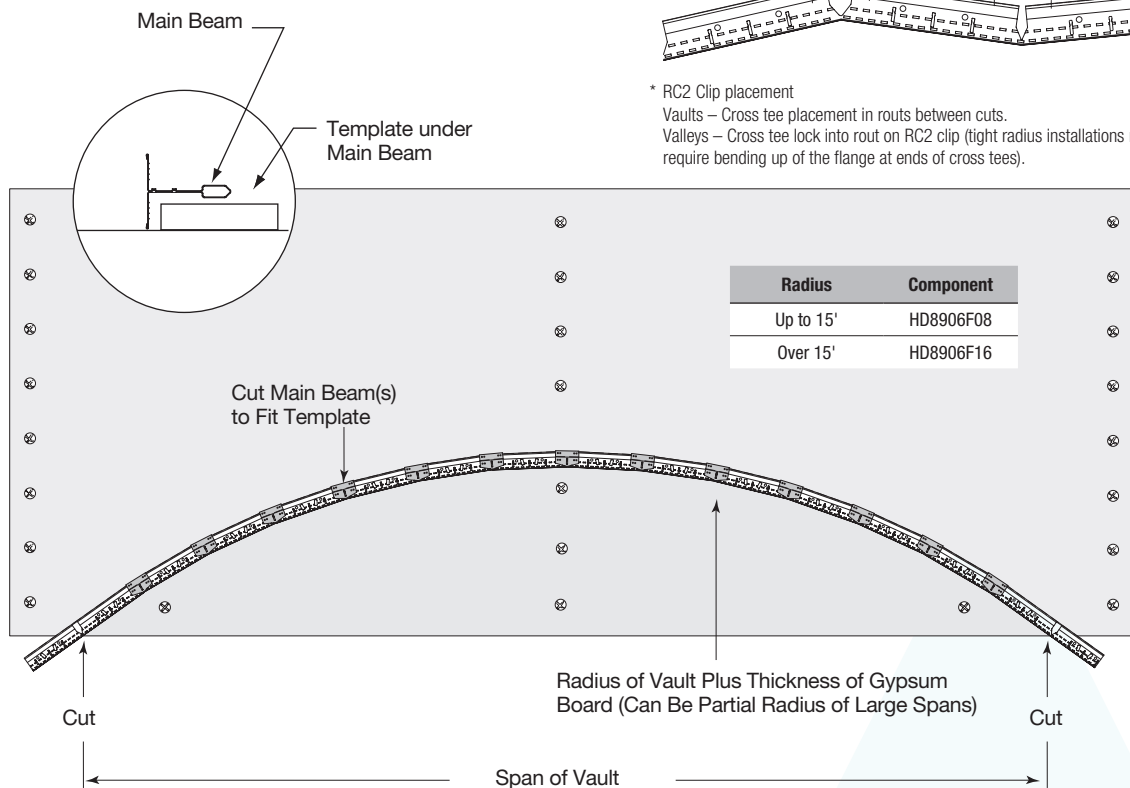
COMPLETING THE TEMPLATE – OPTION 1

- 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 the chart on page 20).

- 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.

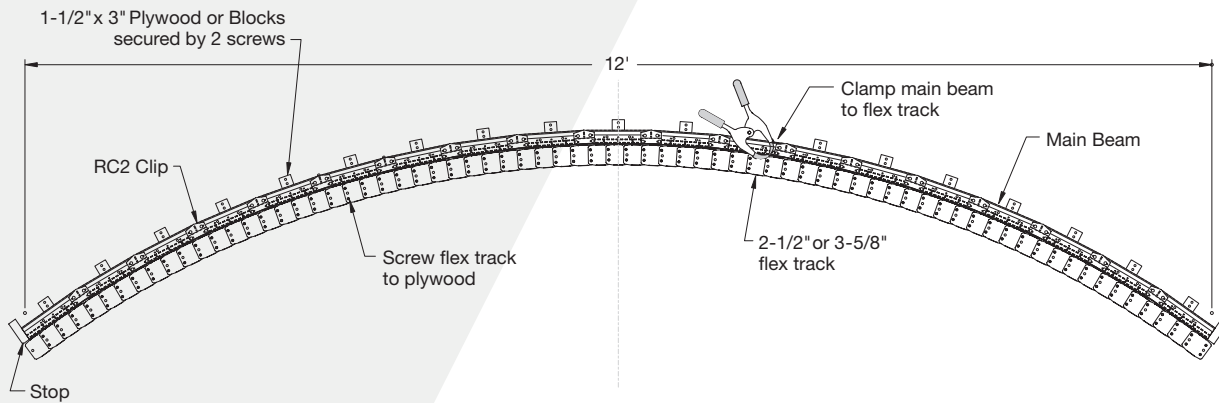


* RC2 Clip placement
 Vaults – Cross tee placement in routs between cuts.
 Valleys – Cross tee lock into rout on RC2 clip (tight radius installations may require bending up of the flange at ends of cross tees).

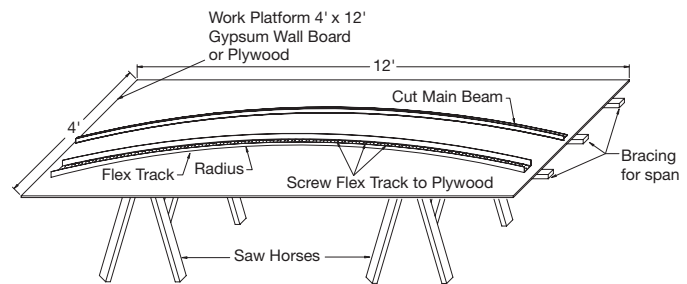


MAKING A TEMPLATE

COMPLETING THE TEMPLATE – OPTION 2

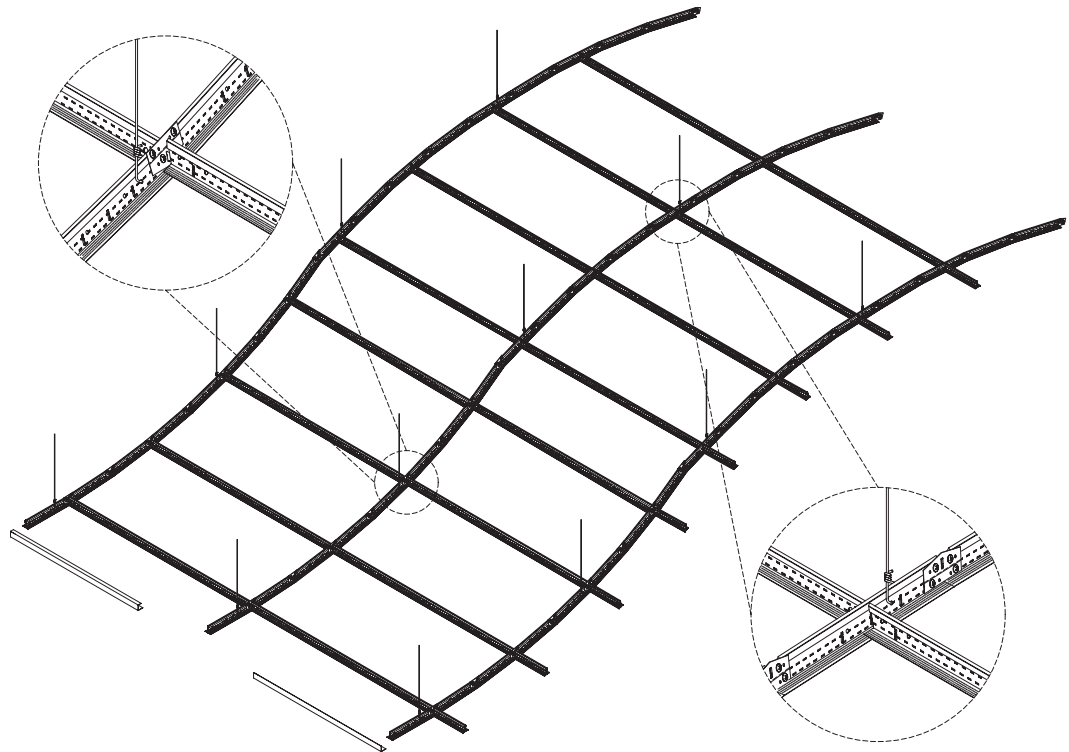


- 1 Draw radius on board.
- 2 Screw flex track to board along radius line.
- 3 Cut main beams as required and position along the flex track on the template.
- 4 Screw RC2 clips to faceted main beam at all knockout locations.
- 5 On the template, mark a rout location reference point to maintain consistent rout location.



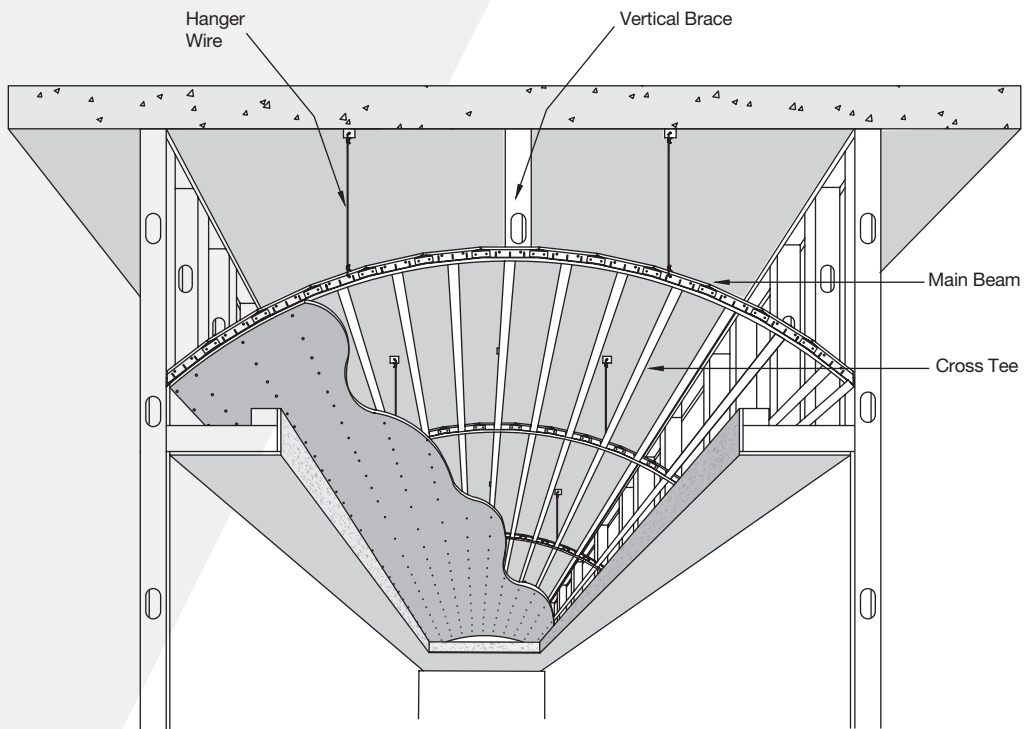
- Contractors' efficiency and understanding of the suspended grid system construction provides performance benefits and cost savings.
- An unlimited range of vaults and valleys can be constructed using faceted main beams made on the job to meet design needs.
- Single and multiple curved ceilings can be framed quickly and easily.

- 1 Hanger wires must be minimum 12 gauge and spaced along the main beams not more than 4' O.C. for gypsum board construction and not more than 3' O.C. for plaster work (spaced as required to 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 construction and 3' O.C. for plaster. Angle or channel molding is used to frame the ends of the structure.

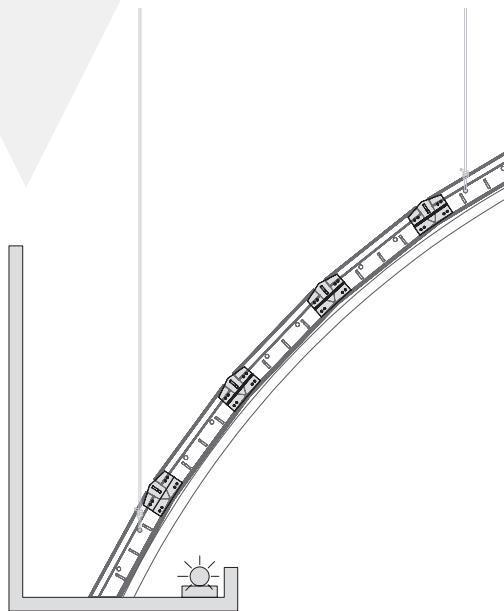


ARCHES AND BARREL VAULTS

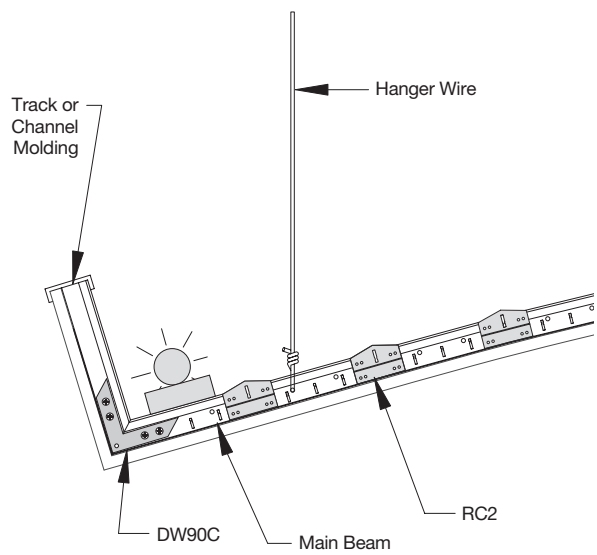
BARREL VAULT



VAULT WITH PERIMETER LIGHT COVE

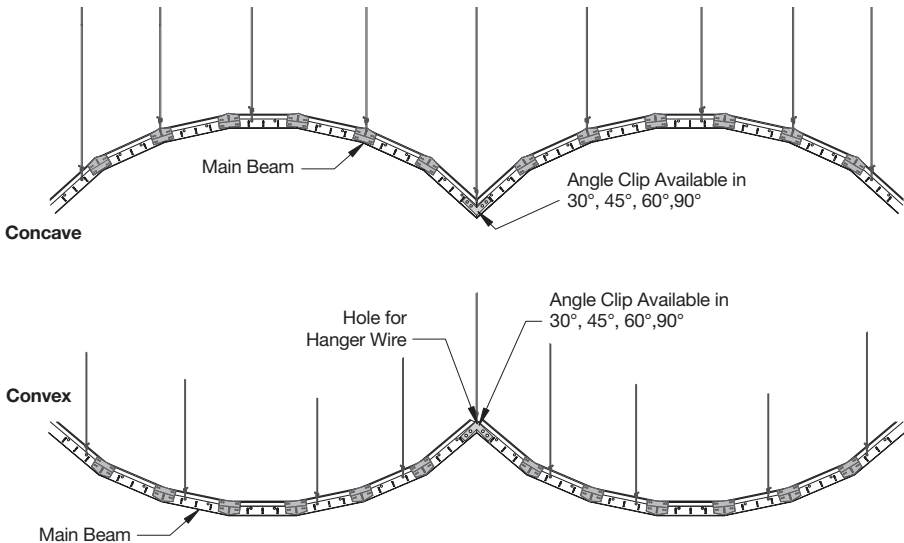


FLOATING VAULT

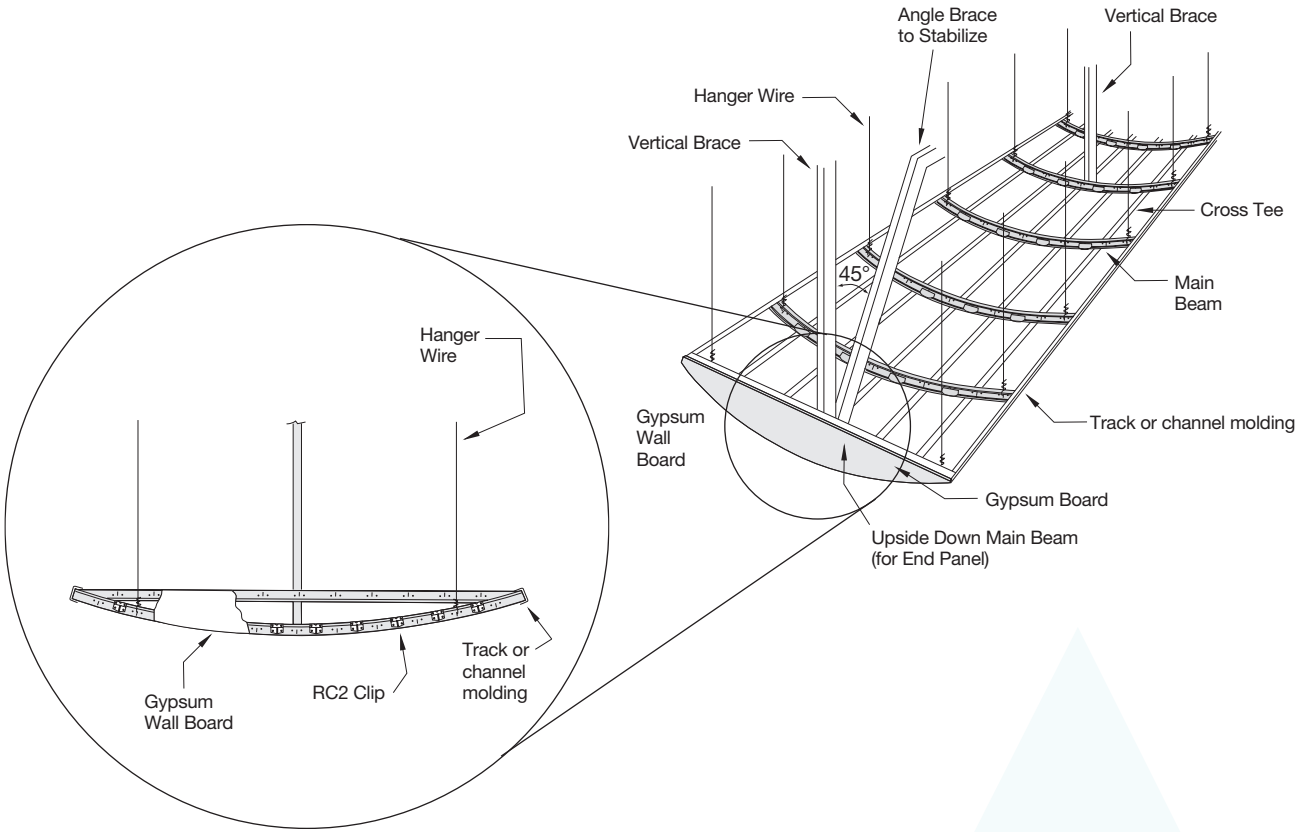


BARREL VAULTS AND CLOUDS

DOUBLE BARREL VAULT



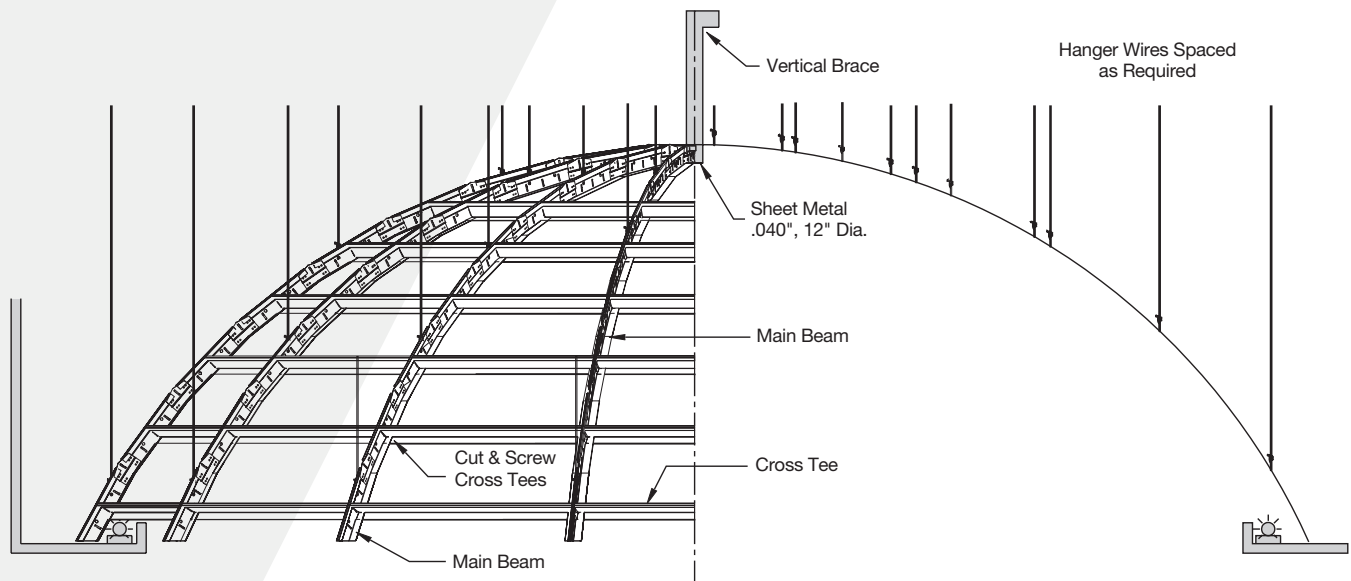
CEILING CLOUD



DOMES

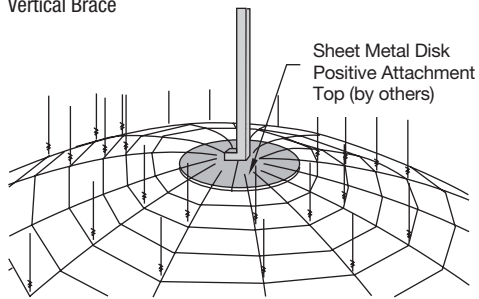
WORKING WITH DOMES

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.

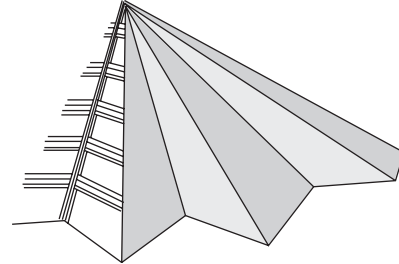


- 1 Determine the starting point at the top and bottom of the dome.
- 2 Prepare a sheet metal disk or donut for the top of the dome. The disk should be one to two feet in diameter and should be fabricated from steel with a thickness of at least 25-gauge thickness. Note that the center of the dome may 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.
- 4 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.)
- 6 Use cross tees cut to the appropriate length and screwed to the flange of the main beams to complete the dome frame structure.
- 7 Cross tees are not required near the top of the dome when the space between mains becomes less than 16".
- 7 The sheathing must be cut into pie shaped sections and screw attached to the framework.

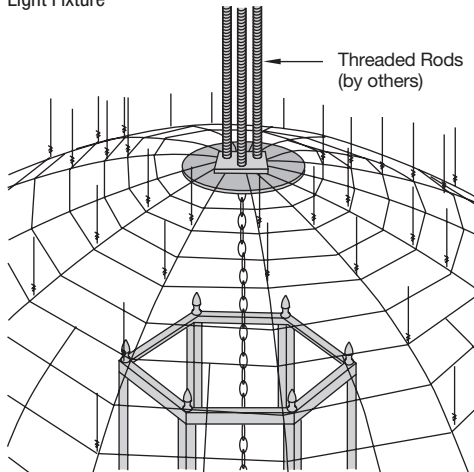
Vertical Brace



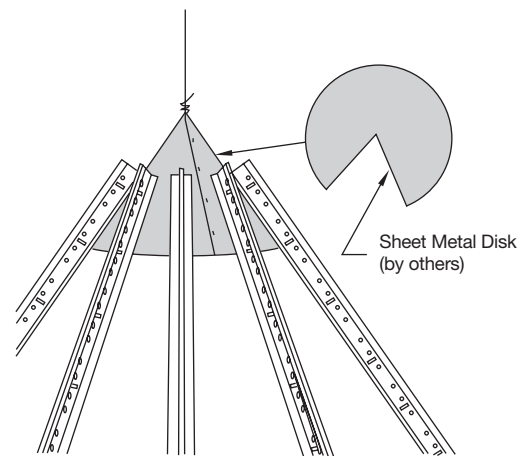
Folded Plate Dome



Light Fixture



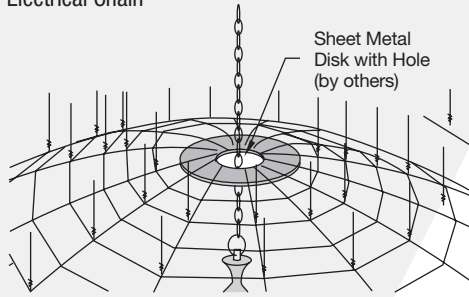
Cone



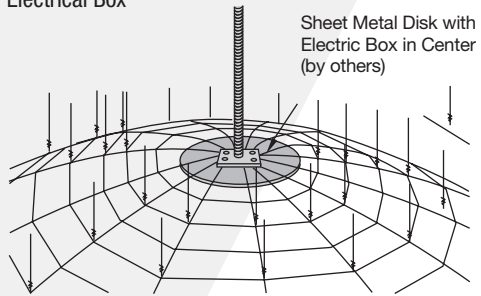
DRYWALL GRID SYSTEMS

COMPONENTS

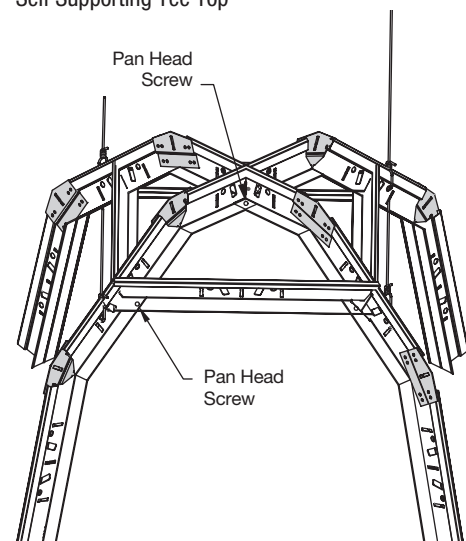
Electrical Chain



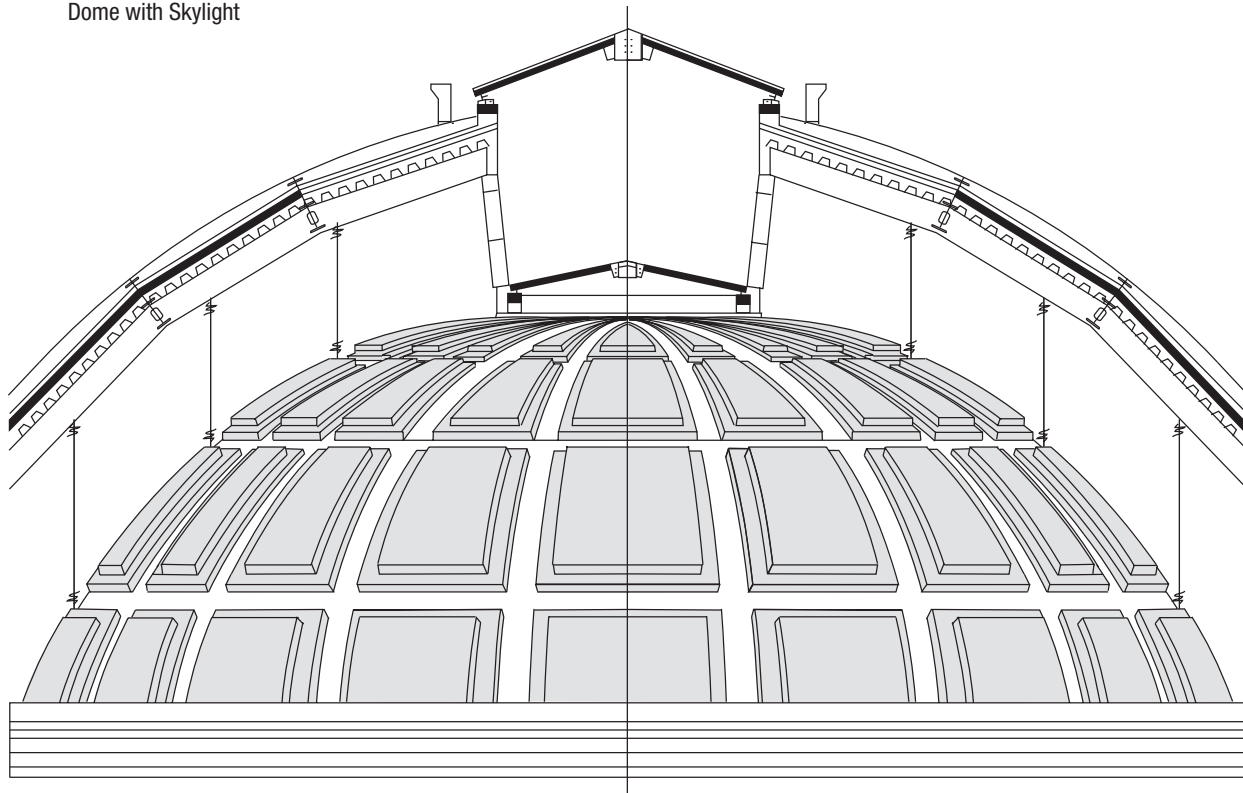
Electrical Box



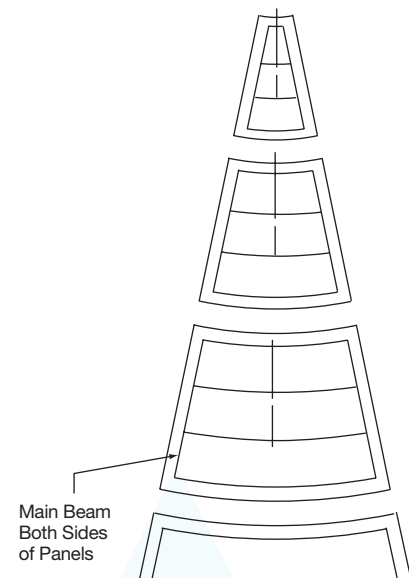
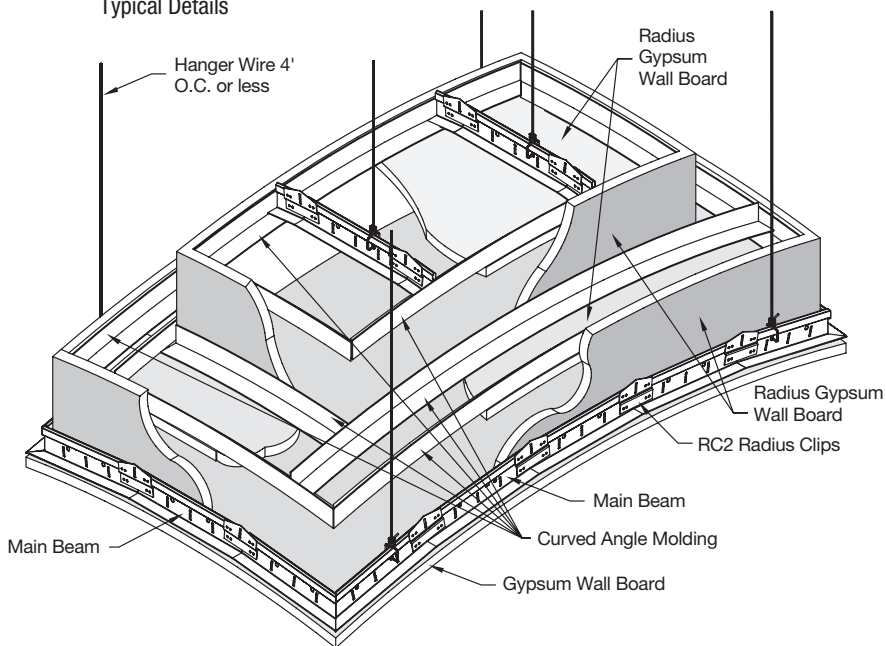
Self Supporting Tee Top



Dome with Skylight



Typical Details

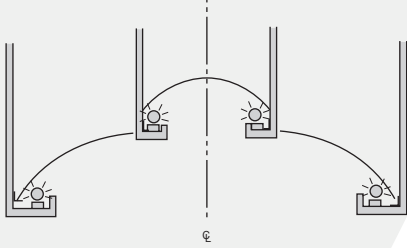


See page 15 for Bending Radius of gypsum board.

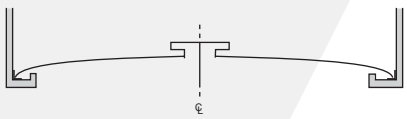
DOMES

OTHER DOMES

Multi-Level Dome



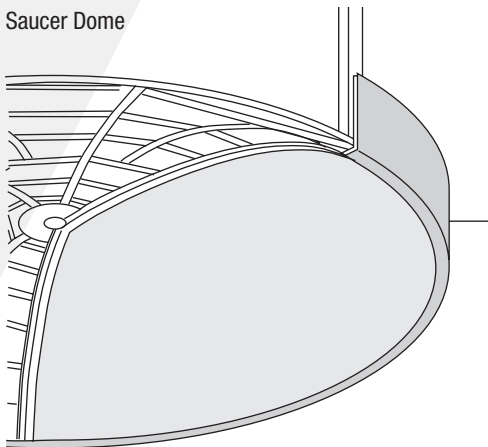
Saucer Dome Up



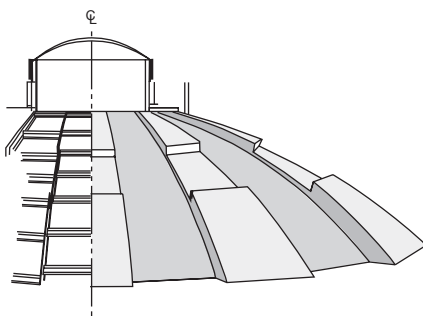
Saucer Dome Down



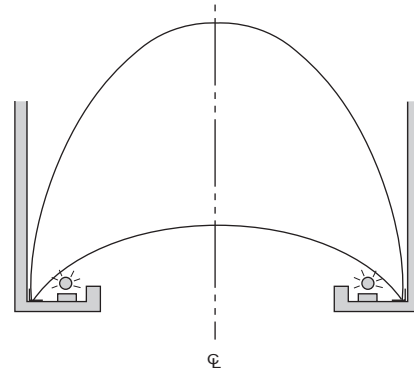
Saucer Dome



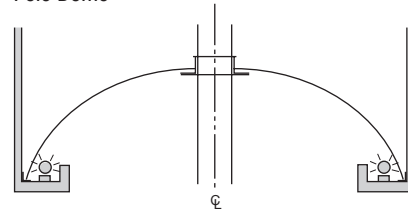
Checker Board Dome
(step down)



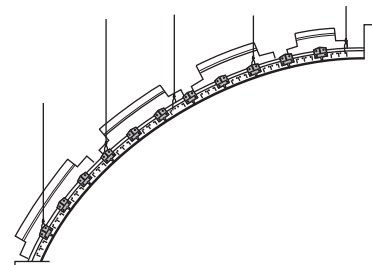
Egg or Elliptical Dome



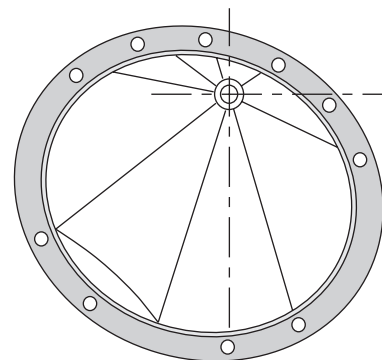
Pole Dome



Step Up Dome



Offset 2 way Radius Dome
Column Ring Made from a Metal Angle



DRYWALL BENDING RADIUS

Material	Drywall Bending Radii				Water Required Per Panel (oz.)
	Minimum Radius (dry)	Maximum Cross Tee Spacing (dry)	Minimum Radius (wet)	Maximum Cross Tee Spacing (wet)	
1/4" Hi-flex Gypsum	32"	9"	20" concave 14" convex	8" concave 6" convex	–
1/4" Gypsum	5'	8"	2'	6"	30 ounces
3/8" Gypsum	7-1/2"	–	3'	8"	35 ounces
1/2" Gypsum	20'	16"	4'	12"	45 ounces
5/8" Gypsum	28'	24"	–	–	–

NOTE: Refer to gypsum wallboard manufacturer for additional information.

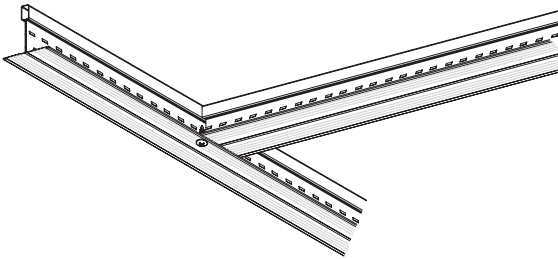
If required, apply water to the side of the panel that will be in compression. Apply the water uniformly over the surface of the boards. Stack moistened boards on a flat surface and cover with plastic sheeting. Allow water to soak into the panels for at least 1 hour before application to the frame. Allow installed panels to dry for 24 hours before finishing.

CONTROL JOINTS

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

Ceiling expansion joints are installed to separate the metal suspension system when expansion joints occur in 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 eliminate cracking from expansion. Expansion and control joints look similar but perform different functions.

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



NOTE: Refer to the Transition Moldings Data Page (BPCS-4307) and Axiom® – Transitions Data Page (BPCS-3530) to view full details.

RADIUS IN FEET

RADIUS DIMENSIONS

		Radius Dimension														
2' Increments from Center Line		10' 0"	11' 0"	12' 0"	13' 0"	14' 0"	15' 0"	16' 0"	17' 0"	18' 0"	19' 0"	20' 0"	21' 0"	22' 0"	23' 0"	24' 0"
	2'	2"	2-1/4"	2"	1-7/8"	1-3/4"	1-5/8"	1-1/2"	1-1/2"	1-3/8"	1-1/4"	1-1/4"	1-1/8"	1-1/8"	1-1/8"	1-1/8"
4'	10"	9-1/8"	8-1/4"	7-5/8"	7"	6-1/2"	6-1/8"	5-3/4"	5-3/8"	5-1/8"	4-7/8"	4-5/8"	4-3/8"	4-1/4"	4"	
6'	2' 0"	1'9-3/8"	1'7-3/8"	1'5-5/8"	1'4-1/4"	1'3"	1'2"	1'1-1/8"	1'0-3/8"	11-3/4"	11-1/8"	10-1/2"	10"	9-5/8"	9-1/8"	
8'	4' 0"	3'5-5/8"	3'0-3/4"	2'9-1/8"	2'6-1/8"	2'3-3/4"	2'1-3/4"	2'0"	1'10-1/2"	1'9-1/4"	1'8-1/8"	1'7"	1'6-1/8"	1'5-1/4"	1'4-1/2"	
	25' 0"	26' 0"	27' 0"	28' 0"	29' 0"	30' 0"	31' 0"	32' 0"	33' 0"	34' 0"	35' 0"	36' 0"	37' 0"	38' 0"	39' 0"	
2'	1"	1"	7/8"	7/8"	7/8"	7/8"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	5/8"	5/8"	5/8"
4'	3-7/8"	3-3/4"	35/8"	3-1/2"	3-3/8"	3-1/4"	3-1/8"	3"	3"	2-7/8"	2-3/4"	2-3/4"	2-5/8"	2-5/8"	2-1/2"	
6'	8-3/4"	8-1/2"	81/2"	7-7/8"	7-1/2"	7-1/4"	7-1/8"	6-7/8"	6-5/8"	6-3/8"	6-1/4"	6-1/8"	5-7/8"	5-3/4"	5-5/8"	
8'	1'3-3/4"	1'3-1/8"	1'25/8"	1'2"	1'2-1/2"	1'1-1/8"	1'0-5/8"	1'0-1/4"	11-1/2"	11-1/2"	11-1/8"	10-7/8"	10-1/2"	10-1/4"	10"	
	40' 0"	41' 0"	42' 0"	43' 0"	44' 0"	45' 0"	46' 0"	47' 0"	48' 0"	49' 0"	50' 0"	51' 0"	52' 0"	53' 0"	54' 0"	
2'	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"	
4'	2-3/8"	2-3/8"	2-3/8"	2-1/4"	2-1/8"	2-1/8"	2-1/8"	2-1/8"	2"	2"	2"	1-7/8"	1-7/8"	1-3/4"	1-3/4"	
6'	5-1/2"	5-3/8"	5-1/4"	5-1/8"	5"	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"	8-7/8"	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' 0"	56' 0"	57' 0"	58' 0"	59' 0"	60' 0"	61' 0"	62' 0"	63' 0"	64' 0"	65' 0"	66' 0"	67' 0"	68' 0"	69' 0"	
2'	1/2"	1/2"	1/2"	1/2"	1/2"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
4'	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'	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'	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"	5-7/8"	5-3/4"	5-3/4"	5-5/8"	
	70' 0"	71' 0"	72' 0"	73' 0"	74' 0"	75' 0"	76' 0"	77' 0"	78' 0"	79' 0"	80' 0"	81' 0"	82' 0"	83' 0"	84' 0"	
2'	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	3/8"	
4'	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"	1-1/4"	1-1/4"	1-1/8"	
6'	3-1/8"	3-1/8"	3"	3"	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'	5-1/2"	5-1/2"	5-3/8"	5-1/4"	5-1/4"	5-1/8"	5-1/8"	5"	5"	4-7/8"	4-7/8"	4-3/4"	4-3/4"	4-5/8"	4-5/8"	
	85' 0"	86' 0"	87' 0"	88' 0"	89' 0"	90' 0"	91' 0"	92' 0"	93' 0"	94' 0"	95' 0"	96' 0"	97' 0"	98' 0"	99' 0"	
2'	3/8"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	
4'	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1-1/8"	1"	1"	1"	1"	1"	1"	
6'	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'	4-1/2"	4-1/2"	4-1/2"	4-3/8"	4-3/8"	4-1/4"	4-1/4"	4-1/4"	4-1/8"	4-1/8"	4-1/8"	4"	4"	4"	3-7/8"	
	100' 0"	105' 0"	110' 0"	115' 0"	120' 0"	125' 0"	130' 0"	135' 0"	140' 0"	145' 0"	150' 0"	155' 0"	160' 0"	165' 0"	170' 0"	
2'	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/8"	1/8"	1/8"
4'	1"	1"	7/8"	7/8"	7/8"	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"	5/8"	5/8"	5/8"	5/8"	
6'	2-1/4"	2-1/8"	2"	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'	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"	2-1/4"	
	175' 0"	180' 0"	185' 0"	190' 0"	195' 0"	200' 0"	210' 0"	220' 0"	230' 0"	240' 0"	250' 0"					
2'	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"	1/8"					
4'	5/8"	5/8"	1/2"	1/2"	1/2"	1/2"	1/2"	1/2"	3/8"	3/8"	3/8"					
6'	1-1/4"	1-1/4"	1-1/4"	1-1/8"	1-1/8"	1-1/8"	1"	1"	1"	7/8"	7/8"					
8'	2-1/4"	2-1/8"	2-1/8"	2"	2"	2"	1-7/8"	1-3/4"	1-5/8"	1-5/8"	1-1/2"					

ESTIMATING MATERIAL

Item Number	Length	Pcs/Ctn.	LF/Ctn.	Lbs./Ctn.	Area of ceiling completed by one carton						
					8" O.C.	16" O.C.	24" O.C.	36" O.C.	48" O.C.	50" O.C.	
DRYWALL/STUCCO GRID MAIN BEAM											
HD8901	144"	20	240	71			480	720	960	1000	sq.ft.
HD8906/HD8906G90	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"	36	216	78	144	288	432				sq.ft.
XL8947P/XL8947PG90**	50"	36	150	56	100	200	300				sq.ft.
XL8945P/XL8945PG90	48"	36	144	52	96	192	288				sq.ft.
XL7936G90	36"	36	108	39		144	216				sq.ft.
XL8926/XL8926G90	24"	36	72	26	48						sq.ft.

** Dimensions are nominal.

Item Number	Length	Pcs/Ctn.	LF/Ctn.	Lbs./Ctn.
REVERSE MOLDINGS				
7857	120"	30	360	51
7858	120"	20	240	67
DRYWALL ANGLE MOLDING				
HD7801G90	120"	30	300	38
KAM-12	144"	30	360	31
KAM-10	120"	30	300	49
LAM-12	144"	30	360	31
LAM-151220E	144"	10	120	39
SIMPLECURVE®				
SC151220EQ	148"	10	124	40
SC151225	148"	10	124	26
SC21220EQ	148"	10	124	52
SC21225	148"	10	124	34

Example calculation based on 5,100 SF ceiling:

Main beam at 48" O.C.

$$5,100 \text{ SF} \times .25 = 1,275 \text{ LF}$$

$$1,275 \text{ LF} \div 144 \text{ LF/Ctn} = 9 \text{ cartons needed}$$

Cross tee at 16" O.C.

$$5,100 \text{ SF} \times .76 = 3,876 \text{ LF}$$

$$3,876 \text{ LF} \div 144 \text{ LF/Ctn} = 27 \text{ cartons needed}$$

Estimating Lineal Feet of Grid Based on Square Footage of Ceiling

O.C. Spacing of Component	Percent of Square Footage
8"	108%
12"	100%
16"	76%
20"	60%
24"	50%
30"	40%
36"	33%
48"	25%
60"	20%

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