CEILING&WALL SYSTEMS

Between us, ideas become reality™

TECHNICAL GUIDE

STUCCO/PLASTER

Grid Systems

Hanging and Framing
Stucco/Plaster Ceilings

Armstrong®
CEILING SOLUTIONS

Table of Contents

contents

Features and Benefits

features and benefits

Performance

- **PeakForm®** patented profile increases strength and stability for improved performance during installation
- **SuperLock™2** 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
- **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
- **Wind Load** construction available, including Miami Dade/Broward County, Florida
- **Pre-engineered** stucco products space tees to match lath dimensions

Code Compliance

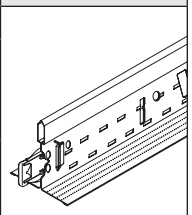
- Meets ASTM C645
- Meets ASTM C840
- Meets ASTM C841
- Meets ASTM C842
- Meets ASTM C926
- Meets ASTM C1063
- Meets ASTM C754
- ICC Evaluation Report Number ESR-1289
- City of LA – RR 25348
- Miami/Dade wind uplift – NOA #12-0314.05 – 03/17/15
- Miami/Dade Impact – NOA #12-0314.04 – 10/07/14
- Consult local codes for specific requirements

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.

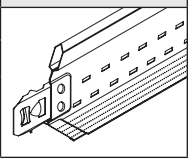
components

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 HD8906**G90** HD8906**HRC**	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	139.85	64.78	27.99	
SP135	135"	1-1/2"	1-11/16"	Heavy Duty	No	13-1/2" o.c. starting 6-3/4" from each end	89.04	43.19	18.66				

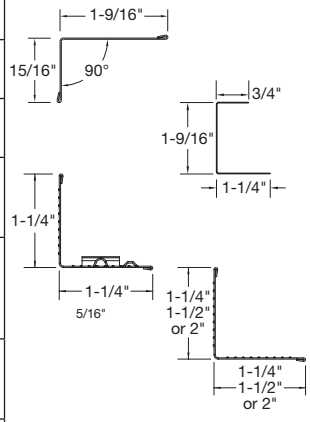
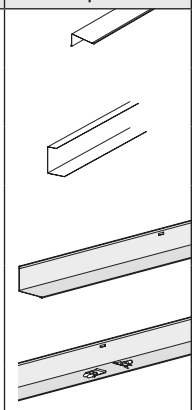
† Type "F" fixture compatible

Cross Tees

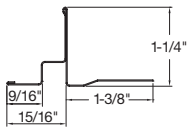
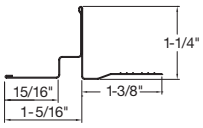
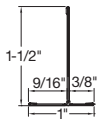
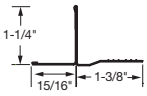
Item Number	Length	Face Dimension	Profile Height	Fire Rated	Routs	Load Test Data (Lbs./LF)						Perspective
						L/360 wires at			L/240 wires at			
						2'	3'	4'	2'	3'	4'	
XL7936**G90**	36"	1-1/2"	1-1/2"	No	none		31.3			46.95		
XL8926 XL8926**G90**	24"	1-1/2"	1-1/2"	Yes	3 routs – center rout and 10" from each end†	90.25				135		

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

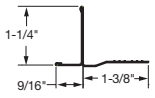
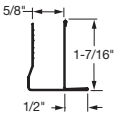
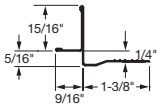
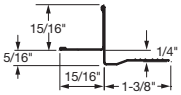
moldings

Wall Molding				
Item Number	**Length**	**Description**	**Profile**	**Perspective**
7858	144"	Reverse Angle Molding nominal 1-9/16" x 15/16"		
7838	120"	Unhemmed Channel Molding nominal 3/4" x 1-9/16" x 1-1/4"		
KAM10	120"	Knurled Angle Molding nominal 1-1/4" x 1-1/4"		
KAM12 KAM12**G90** KAM12**HRC**	144"	Knurled Angle Molding nominal 1-1/4" x 1-1/4"		
KAM1510 KAM1512 KAM151020 KAM151020**EQ**	120" 144"	Knurled Angle Molding nominal 1-1/2" x 1-1/2" (KAM1510 & KAM1512 - 25g.; KAM151020 - 20g.; KAM151020EQ - 22g)		
KAM21020 KAM21025 KAM21020**EQ**	120" 144"	Knurled Angle Molding nominal 2" x 2" (20 gage) (KAM21020 - 20g.; KAM21025 - 25g.; KAM21020EQ 22g)		
LAM12 LAM12**G90** LAM12**HRC**	144"	Locking Angle Molding nominal 1-1/4" x 1-1/4"		

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.			
Item Number	**Description**	**Profile**	
7901	9/16" Shadow Reveal Transition Molding		
7902	15/16" Shadow Reveal Transition Molding		
7903	1" Flush T Transition Molding		
7904	15/16" Flush Transition Molding		

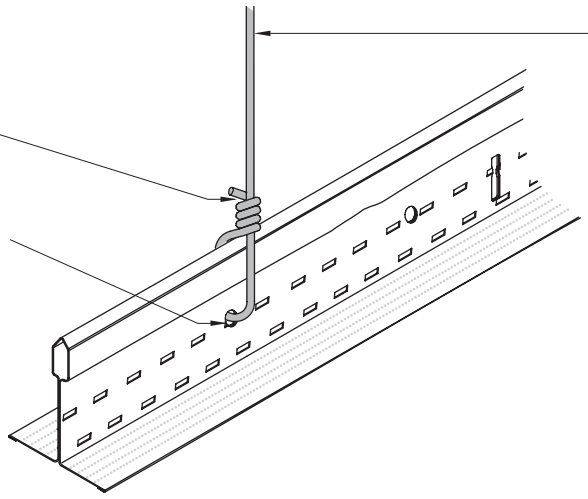
Moldings continued and Wire Load

Acoustical to Drywall Transition Molding, continued			
Item Number	**Description**	**Profile**	
7905	9/16" Flush Transition Molding		
7906	"F" Vertical Transition Molding		
7907	9/16" Tegular Transition Molding		
7908	15/16" Tegular Transition Molding		

Wire Load Details

wire load

9-Gauge Wire Breaking Strength and Technical Data



Note: Per ASTM C1063 wires must be plumb and straight

Stucco/Plaster Installation

Stucco/Plaster Grid Suspension Installation

stucco/plaster 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 MetalLath/ Steel Framing Association Specifications Standards.

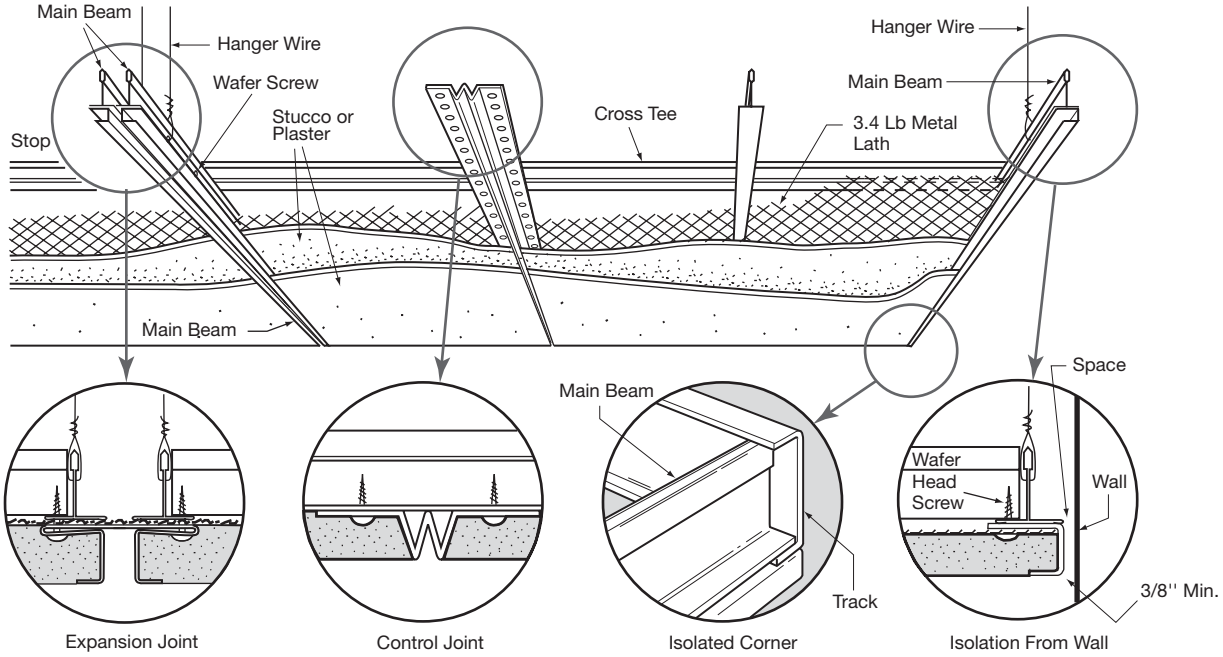
7 Plaster stops, grounds, and corner pieces are attached to system with wafer head screws and/or 18 gauge tie wire.

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).

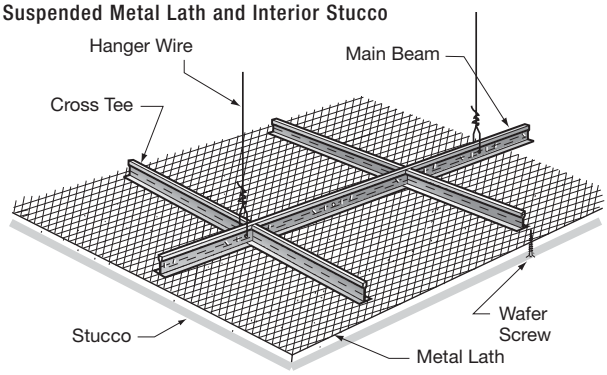
For further information, contact your local representative or TechLine at / 655 054 5654.

Details of Stucco/Plaster Systems

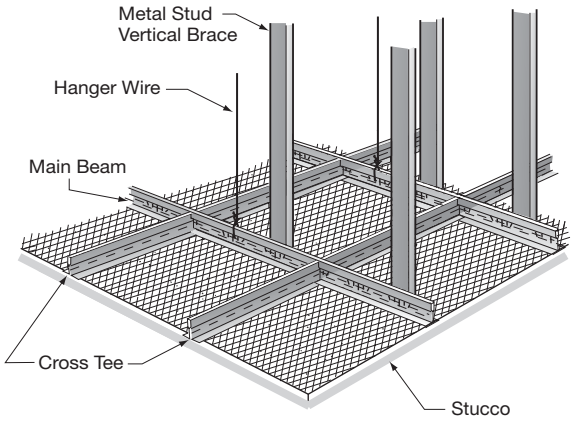


Stucco/Plaster Details

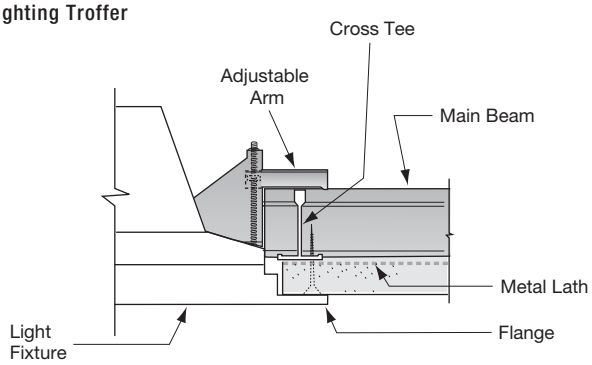
Suspended Metal Lath and Interior Stucco



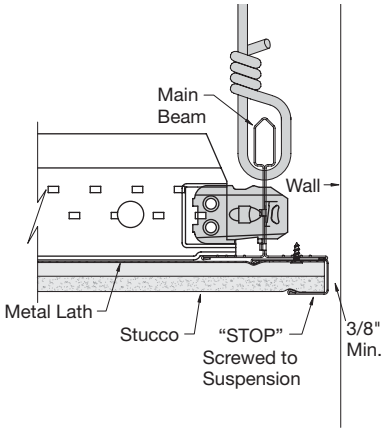
Exterior Wind Loaded Stucco



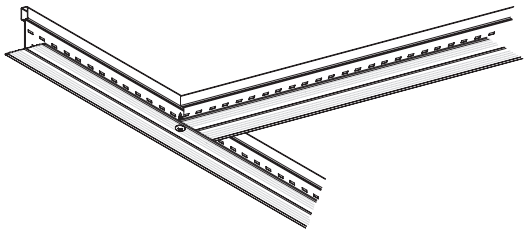
Lighting Troffer



Stucco Perimeter Stop

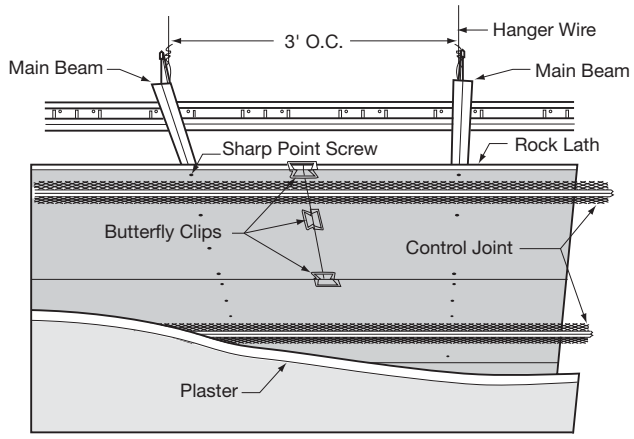


Non-Modular Cut and Screw

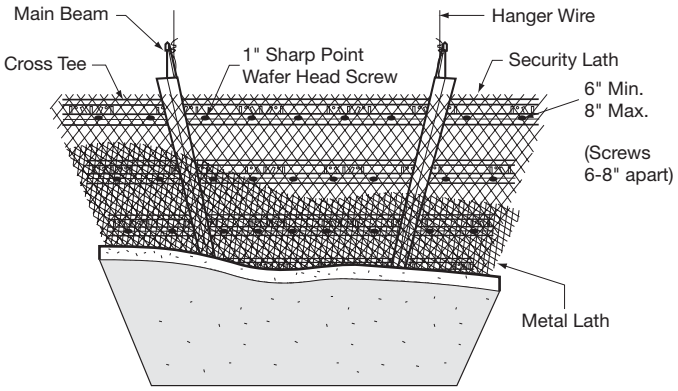


Stucco/Plaster Details

Rock Lath and Plaster



Security Metal Lath and Plaster



Wind Load

Stucco System Exterior Wind load & Impact Resistant Ceiling Design for North America

Plenum Height (Ft - In)	Design Wind Velocity (MPH)	Design Wind Pressure (PSF)	Compression Post Size (Inch)	Compression Post Gauge (Ga. No.)	Membrane Substrate 3/8" Ribbed Sheet lath 3.4 Lbs/SQ.YD., Per ASTM C-847	Compression Post Spacing (ft.-in.)	Main Runner Spacing (Inch)	Cross Tee Spacing (Inch)	Hanger Wire Spacing (ft.-in.)	Cross Tee Length (Feet)	Compression Post Design Load (Lbs.)
0 ↓ 6' ***	15	0.507	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	48	13.5	4'	4	15
	30	2.027	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 9"	48	13.5	4'	4	38
	45	4.561	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	36	13.5	4'	3	62
	60	8.108	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 9"	36	13.5	4'	3	101
	90	18.24	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 5"	36	13.5	3'	3	199
	120	32.43	2 1/2" CWN	20	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 5"	24	13.5	2' - 6"	2	236
	140	44.15	2 1/2" CWN	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 3"	24	13.5	2' - 6"	2	301
	172	75	2 1/2" CSJ	18	See NOA 12-0314.05 Design	2'	36	13.5	2'	3	452
	172	75	2 1/2" CSJ	18	See NOA 12-0314.04 Design	2' - 6"	36	13.5	2' - 6"	3	565
6' 1" ↓ 10' 3" ****	15	0.507	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	48	13.5	4'	4	15
	30	2.027	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 9"	48	13.5	4'	4	38
	45	4.561	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	36	13.5	4'	3	62
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	90	18.24	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-5	36	13.5	3'	3	199
	120	32.43	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-5	24	13.5	2' - 6"	2	236
	140	44.15	2 1/2" CWN	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-3	24	13.5	2' - 6"	2	301
	172	75	2 1/2" CSJ	18	See NOA 12-0314.05 Design	2'	36	13.5	2'	3	452
	172	75	2 1/2" CSJ	18	See NOA 12-0314.04 Design	2' - 6"	36	13.5	2' - 6"	3	565
10' 4" ↓ 15' 0" ****	*15	0.507	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	48	13.5	4'	4	15
	*30	2.027	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 9"	48	13.5	4'	4	38
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	*90	18.24	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-5	36	13.5	3'	3	199
	*120	32.43	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-5	24	13.5	2' - 6"	2	236
	*140	44.15	2 1/2" CWN	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-3	24	13.5	2' - 6"	2	301
	172	75	2 1/2" CSJ	18	See NOA 12-0314.05 Design	2'	36	13.5	2'	3	452
	172	75	2 1/2" CSJ	18	See NOA 12-0314.04 Design	2' - 6"	36	13.5	2' - 6"	3	565
15' 1" ↓ 20' 0" ****	**15	0.507	3 5/8" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	48	13.5	4'	4	15
	**30	2.027	3 5/8" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' - 9"	48	13.5	4'	4	38
	**45	4.561	3 5/8" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -11"	36	13.5	4'	3	62
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	**120	32.43	3 5/8" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-5	24	13.5	2' - 6"	2	236
	**140	44.15	2 1/2" CWN	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2-3	24	13.5	2' - 6"	2	301
	172	75	3 5/8" CSJ	18	See NOA 12-0314.05 Design	2'	36	13.5	2'	3	452
	172	75	3 5/8" CSJ	18	See NOA 12-0314.04 Design	2' - 6"	36	13.5	2' - 6"	3	565

Ceiling System = SP135-G90 Main Runner 11.25 ft. / XL 7936-G90 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".

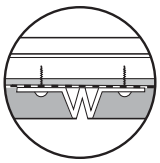
*** Compression Post and Ceiling system Tested at the Plenum design depth shown here for Possitive and Negitive Wind Speed pressure Loads as listed.

**** Compression Post Assemblies at this Plenum design depth Calculated by Dietrich Design Group.
For building heights over 20 feet refer to ASCE 7-10 chapter 6 Wind Loads Stud Products & Properties Based on Dietrich Industries Inc.

Non-Impact Miami / Dade County EIFS Exterior Celing Design NOA 12-0314.05 Hurricane Zone Approved

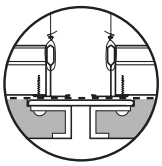
Impact Rated EIFS Exterior Ceiling Design with 5/8" F/R plywood added to membrane Miami / Dade County See NOA 12-0314.04 Hurricane Zone Approved

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.

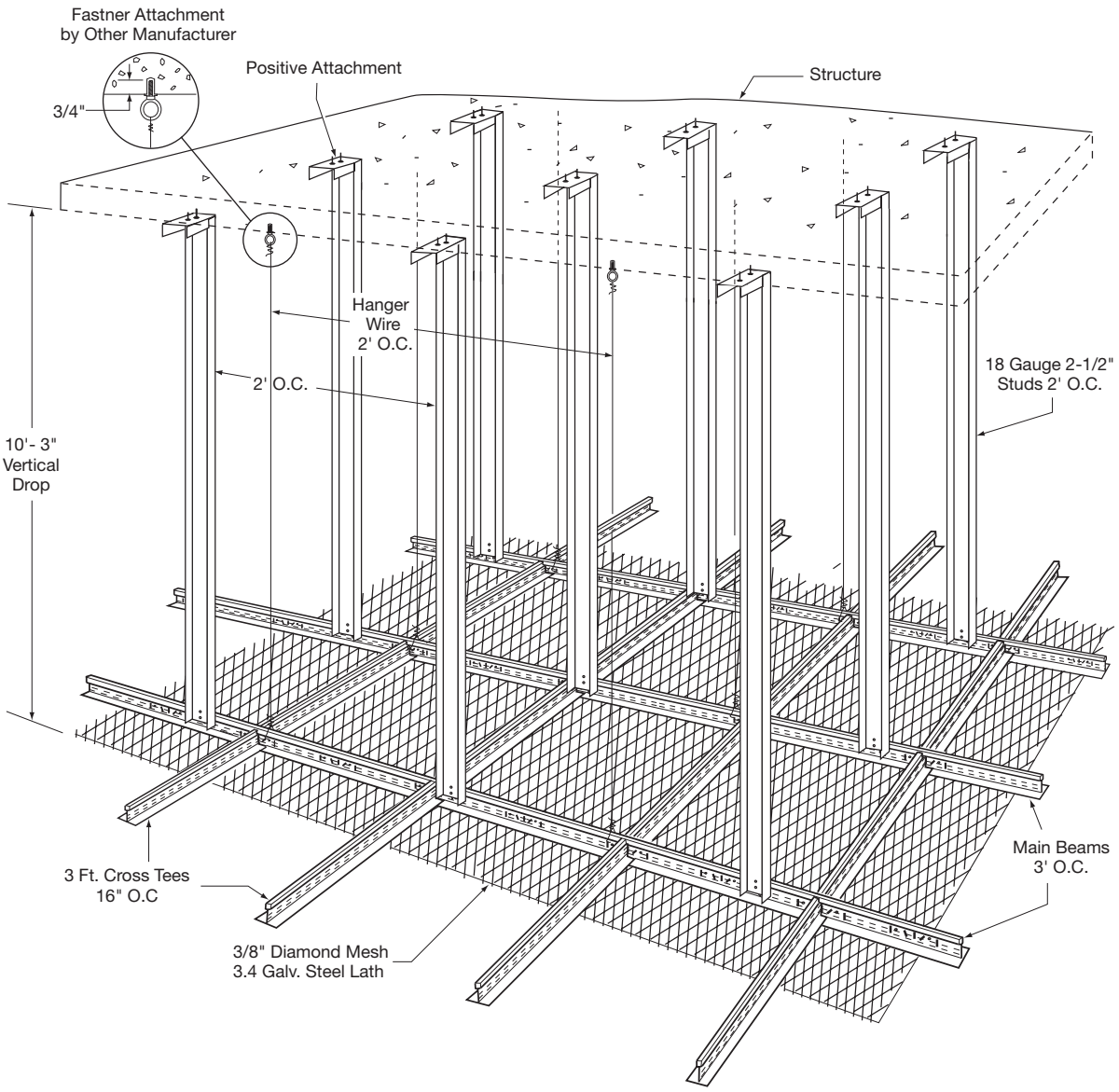
Membrane Load Values

Component Combinations	Maximum Load in lbs./ft.² at Hanger Wire/Cross Tee Spacing	
	36"/ 16"	36"/13.5"
	L/360	L/360
HD8906/XL7936G90 (mains 36" O.C.)	13.37	
HD8906/XL8926 (mains 24" O.C.)	20.5	
SP135/XL7936G90 (mains 36" O.C.)		13.37

Exterior Wind Load Bracing to Concrete Slab

wind load bracing

For maximum wind speed of 172 MPH.



Notes:

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.

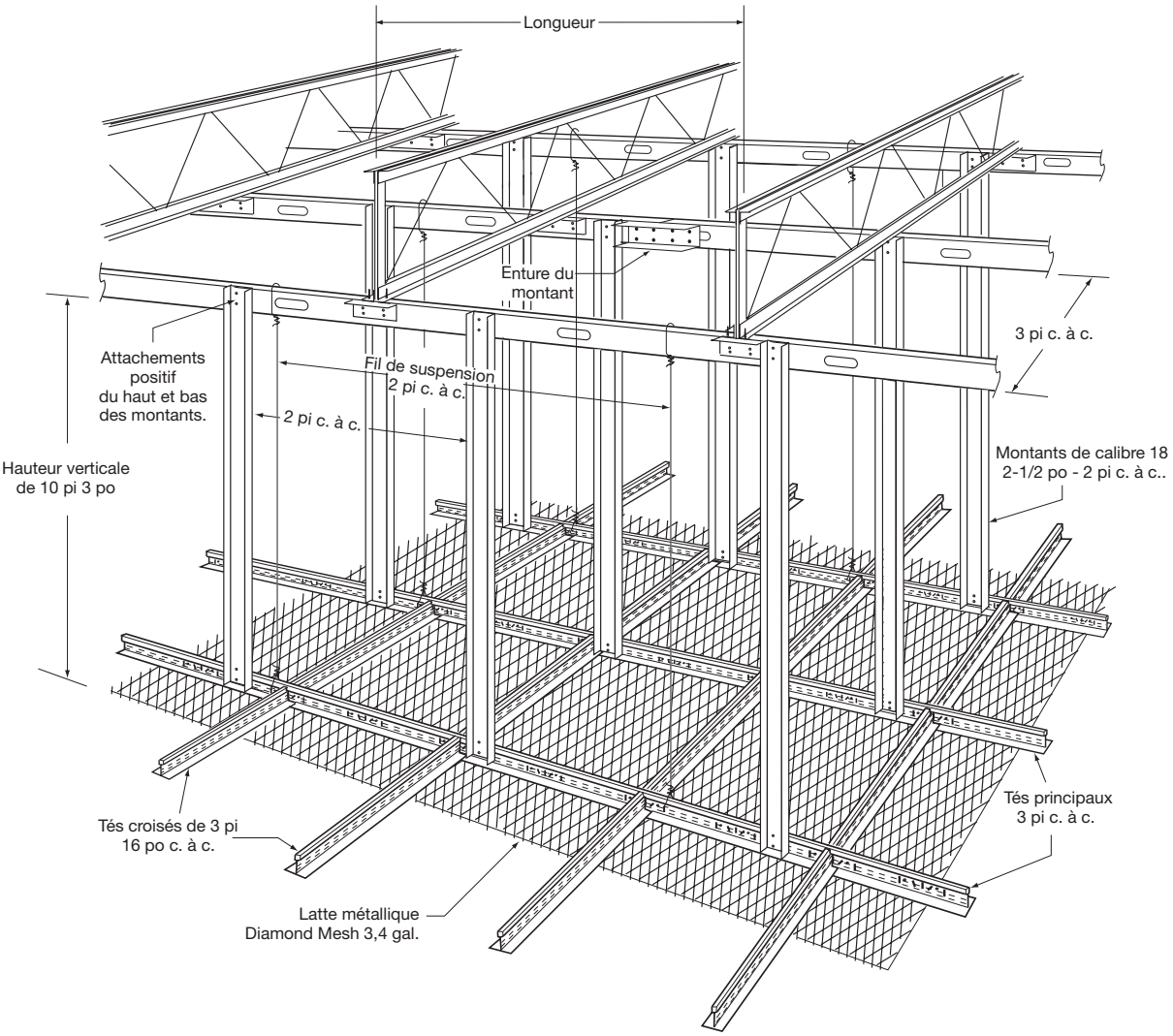
7 Positive Attachment Metal Studs Top and Bottom.

8 #9 Hanger Wire – as shown above

Exterior Wind Load Bracing to Metal Bar Joists

wind load bracing

For maximum wind speed of 172 MPH.



Notes:

1 18-Gauge 2-1/2' steel studs, 10'-3" vertical drop.

2 Positive Attachment top and bottom.

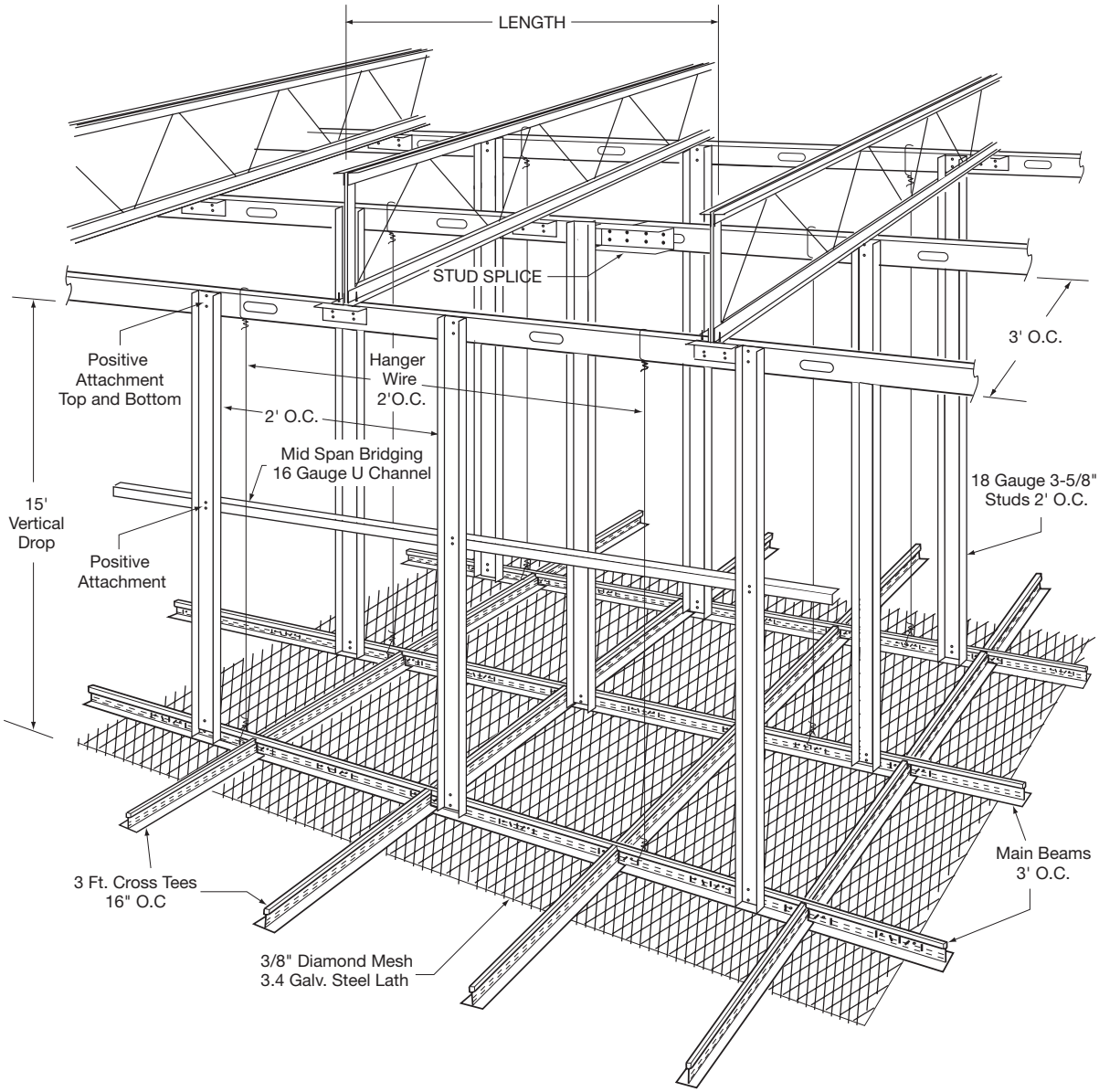
3 Hanger Wire 2' O.C.

4 Main Beams 3' O.C. / Cross Tees 16" O.C 3' long.

Exterior Wind Load Bracing to Metal Bar Joists

wind load bracing

For maximum wind speed of 172 MPH.



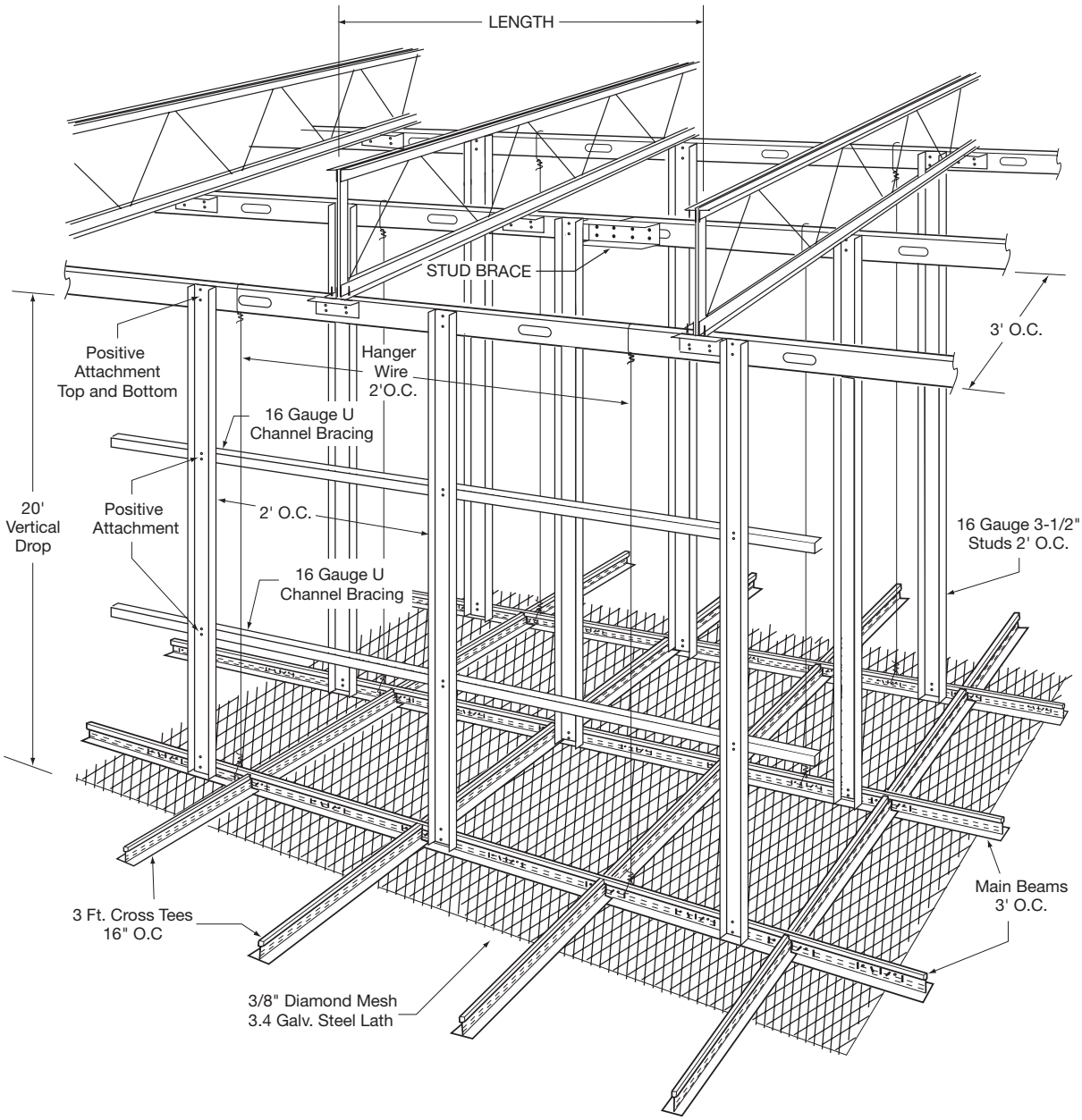
Notes:

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

Exterior Wind Load Bracing to Metal Bar Joists

wind load bracing

For maximum wind speed of 172 MPH.



Notes:

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

Draw radius on template (plywood, gypsum board, etc.)

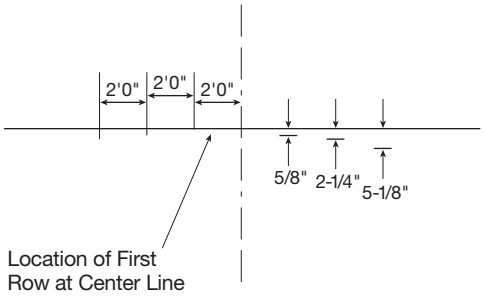
1 Establish a center line.

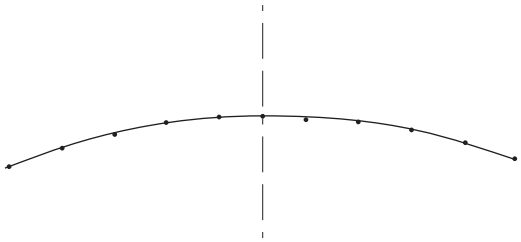
2 Mark 2' increments on line perpendicular to center line.

3 At 2' marks, identify points of arc below perpendicular line (maintain consistent spacing of point) See radius charts on page 19.

4 Connect points to form a smooth arc.

Example: 43' arc using chart on page 19





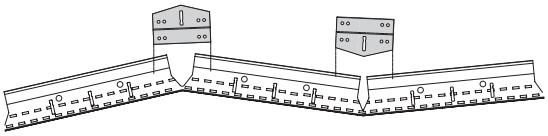
Completing the Template – Option 1

1 Cut along the arc and remove section of template.

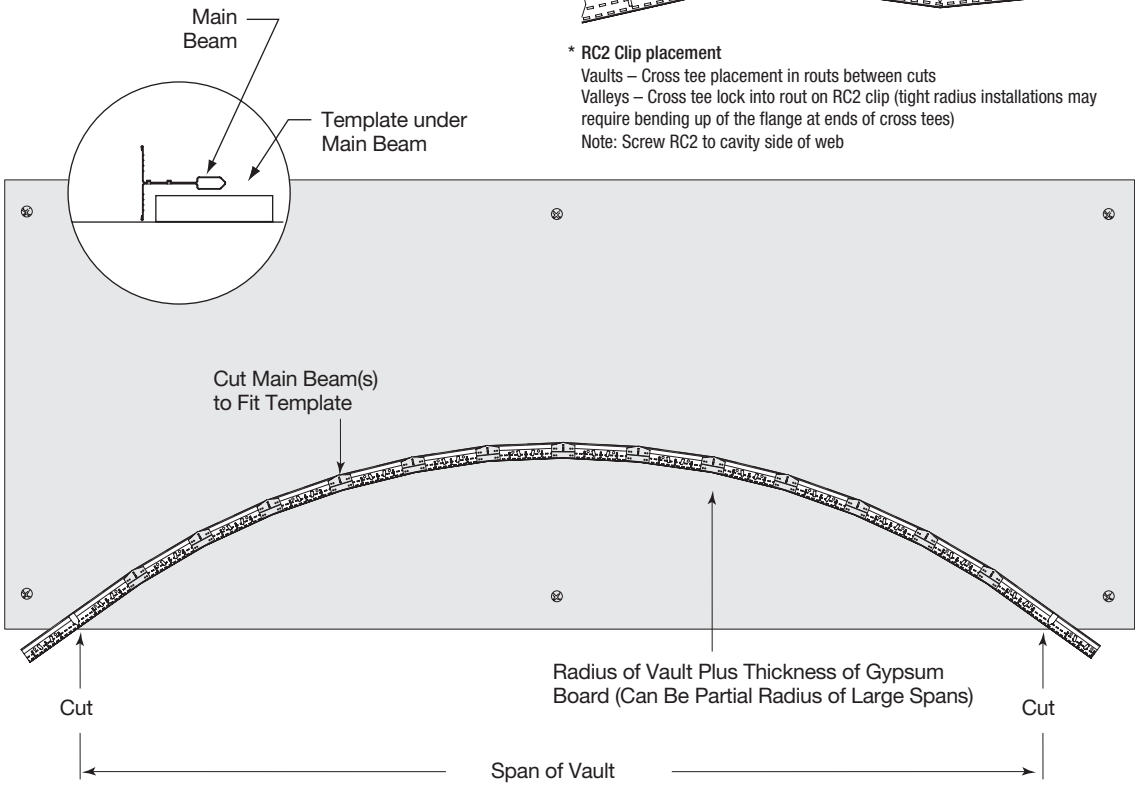
2 Cut main beam as required and position along the cut radius on the template (use chart on page 19).

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.



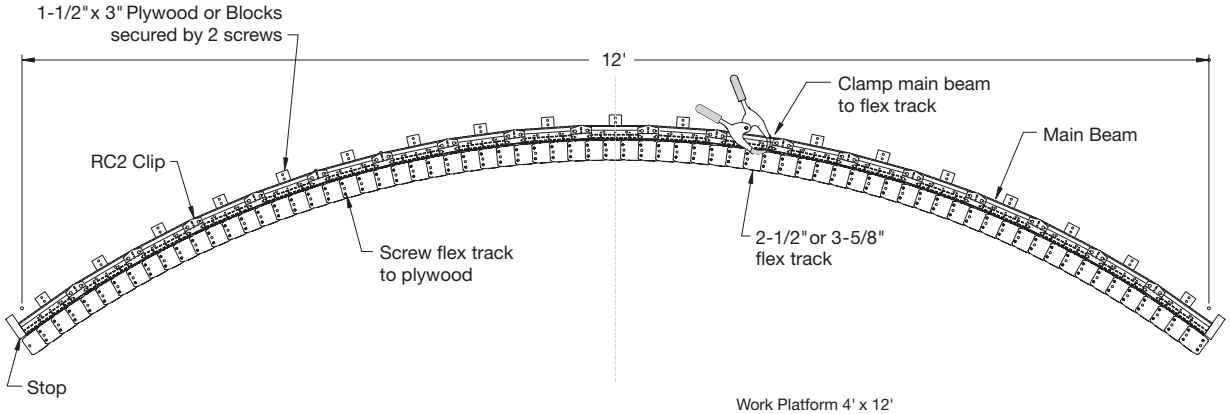
* **RC2 Clip placement**
Vaults – Cross tee placement in routs between cuts
Valleys – Cross tee lock into rout on RC2 clip (tight radius installations may require bending up of the flange at ends of cross tees)
Note: Screw RC2 to cavity side of web

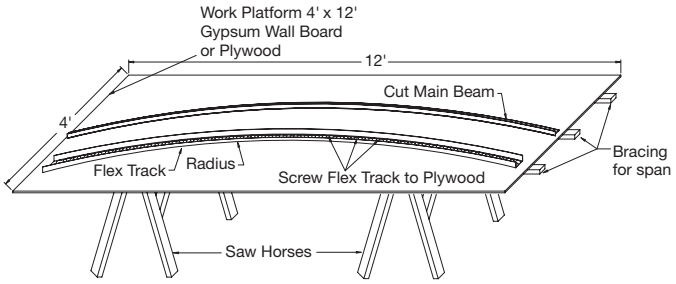


Making a Template

Completing the Template – Option 2

making a template





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 in Feet

2' Increments from Center Line

Radius Dimension															
	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"
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"	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"	1/8"	1/8"	1/8"
4'	1"	1"	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'	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"				

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