

TECHNICAL GUIDE



**HANGING
& FRAMING
STUCCO/
PLASTER
CEILING**

FRAMEALL™ DRYWALL GRID
STUCCO/PLASTER



Armstrong®
World Industries

FASTER. EASIER. BETTER.

FrameAll™ Drywall Grid installs faster than traditional methods, which helps you complete jobs under cost and ahead of schedule.

FrameAll Drywall Systems are manufactured to meet or exceed ASTM standards and code requirements and are engineered to provide economical alternatives to stud and track construction.

We provide pre-engineered solutions for direct-to-deck installations, vertical drops, and short spans.



CODE COMPLIANCE YOU CAN TRUST

- Meets:
- ASTM C645
- ASTM C840
- ASTM C841
- ASTM C842
- ASTM C926
- ASTM C1063
- ASTM C754
- ICC Evaluation Report Number ESR-1289
- City of LA – RR 25348
- Miami/Dade wind uplift – NOA #15-0127.04 – 03/17/15
- Miami/Dade Impact – NOA #14-1204.05 – 10/07/14
- Consult local codes for specific requirements

PERFORMANCE (cont...)

- 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



FrameAll Drywall Grid System

TABLE OF CONTENTS

- 2 Code Compliance
- 2-3 Performance
- 4 Components
- 5-6 Moldings/Transition Moldings
- 7-8 Axiom® Trim
- 9 Axiom Building Perimeter System
- 10-11 Rout Locations
- 12-13 Accessories
- 14 System Framing
- 15 Type F Fixtures
- 16-18 Suspended Drywall Grid System
- 19 Wire Loading
- 20 Trapeze Supported Solutions
- 21 Multi-Layer Ceilings
- 22 Exterior Wind Load Data
- 23-26 UL® Fire Resistive
- 27 Seismic Installations
- 28 Load Data
- 29 Basic Products
- 30 Sound Control
- 31-32 Assemblies
- 33 Estimating

(...cont.) PERFORMANCE



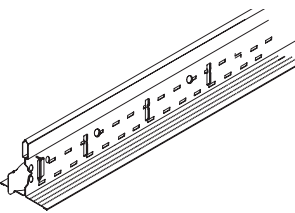
- Knurled Ridges on cross tees for speed of screw insertion during board installation
- ScrewStop™ reverse hem prevents screw spin-off on 1-1/2" wide face
- Rotary-stitched – Greater torsional strength and stability
- 1-1/2" wide face main beams and cross tees – Easy installation of screw applied gypsum 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

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.

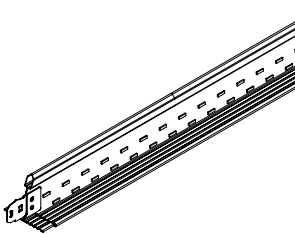
COMPONENTS

MAIN BEAMS

Perspective	Item No.	Length	Face Dimension	Profile Height	Duty Load	Fire Rated	Routs	Load Test Data (Lbs/LF)					
								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	57.3	28.14
	SP135	135"	1-1/2"	1-11/16"	Heavy Duty	No	13-1/2" O.C. starting 6-3/4" from each end	95.5	43.19	18.66	139.85	52.59	28.71

† Type F fixture compatible

CROSS TEES

Perspective	Item No.	Length	Face Dimension	Profile Height	Fire Rated	Routs	Load Test Data (Lbs/LF)					
							L/360 wires at			L/240 wires at		
							2'	3'	4'	2'	3'	4'
	XL7936G90*	36"	1-1/2"	1-1/2"	No	–	31.3				50	
	XL8926 XL8926G90*	24"	1-1/2"	1-1/2"	Yes	3 routs – center rout and 10" from each end†	90.25				158	

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

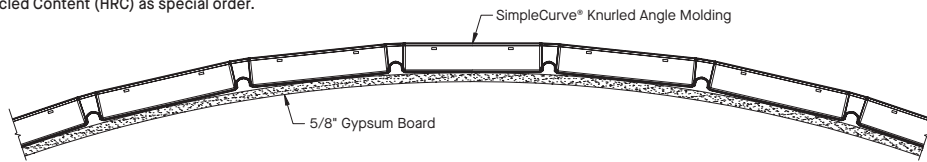
† Type F fixture compatible

* G90 Cross Tees are not manufactured with knurled ridges

WALL MOLDING

Perspective	Item No.	Length	Description	Profile
	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	144"	Knurled Angle Molding nominal 1-1/4" x 1-1/4"	
	KAM12G90 KAM12HRC			
	KAM1510	120"	Knurled Angle Molding nominal 1-1/2" x 1-1/2"	
	KAM1512 KAM151020 KAM151020EQ	144"	(KAM1510 & KAM1512 - 25 ga.; KAM151020 - 20 ga.; KAM151020EQ - 22 ga.)	
	KAM21020	120"	Knurled Angle Molding nominal 2" x 2" (20 ga.)	
	KAM21025 KAM21020EQ	144"	(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	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.)
SC151225		148"		
SC21220EQ		148"		
SC21225		148"		

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



ACOUSTICAL TO DRYWALL TRANSITION MOLDING

Material: Commercial-quality cold-rolled hot-dipped galvanized steel

Item No.	Length/Item Description	Face Dimension	Flange	Total Width	Profile
7901	120" Shadow Reveal Molding	3/8" shadow reveal	9/16"	1-1/4"	
7902	120" Shadow Reveal Molding	3/8" shadow reveal	15/16"	1-1/4"	
7903	120" Inverted T Molding	1" inverted T	-	1-1/2"	
7904 7904PF*	120" Flush Transition Molding	15/16" horizontal	15/16"	1-1/4"	

* 7904PF and 7905PF feature protective film on the acoustical wall angle flange for faster, easier finishing.

MOLDINGS & WIRE LOAD

ACOUSTICAL TO DRYWALL TRANSITION MOLDING (cont...)

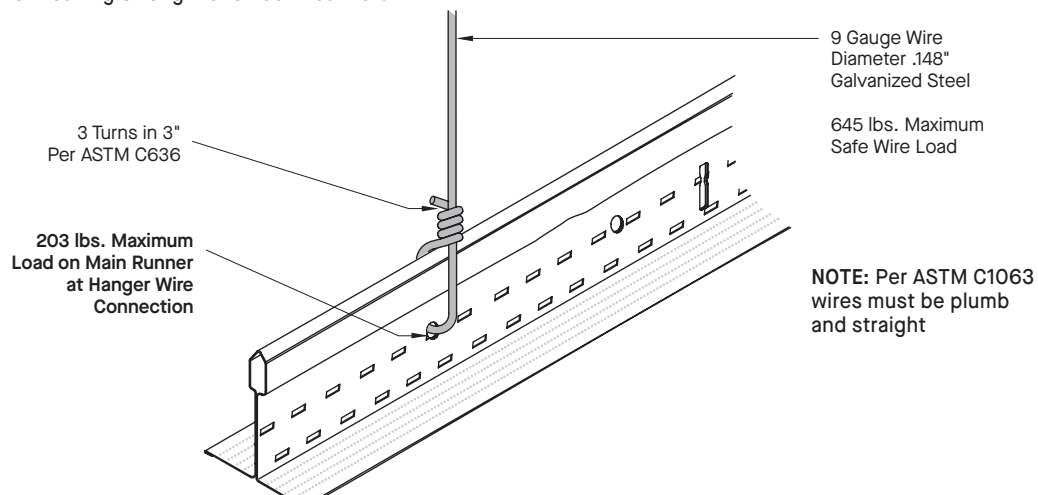
Material: Commercial-quality cold-rolled hot-dipped galvanized steel

Item No.	Length/Item Description	Face Dimension	Flange	Total Width	
7905 7905PF*	120" Flush Transition Molding	9/16" horizontal	9/16"	1-1/4"	
7906	120" F Molding	120" vertical transition	1/2"	1-7/16"	
7907	120" Tegular Transition Molding	9/16" horizontal	9/16"	1-1/4"	
7908	120" Tegular Transition Molding	15/16" horizontal	15/16"	1-1/4"	
7909	15/16" 1" Step Transition Molding	15/16" horizontal	15/16"	1-7/8"	
7910	9/16" 1" Step Transition Molding	9/16" horizontal	9/16"	1-7/8"	
7911	9/16" Shadow Reveal Transition Molding	3/8" x 1/4" shadow reveal	9/16"	1-1/8"	
7912	15/16" Shadow Reveal Transition Molding	3/8" x 1/4" shadow reveal	15/16"	1-1/4"	
7913	120" F Vertical Transition Molding	9/16" horizontal	9/16"	1-1/2"	
7914	120" F Vertical Transition Molding	15/16" horizontal	15/16"	1-1/2"	

* 7904PF and 7905PF feature protective film on the acoustical wall angle flange for faster, easier finishing.

WIRE LOAD DETAILS

9-Gauge Wire Breaking Strength and Technical Data

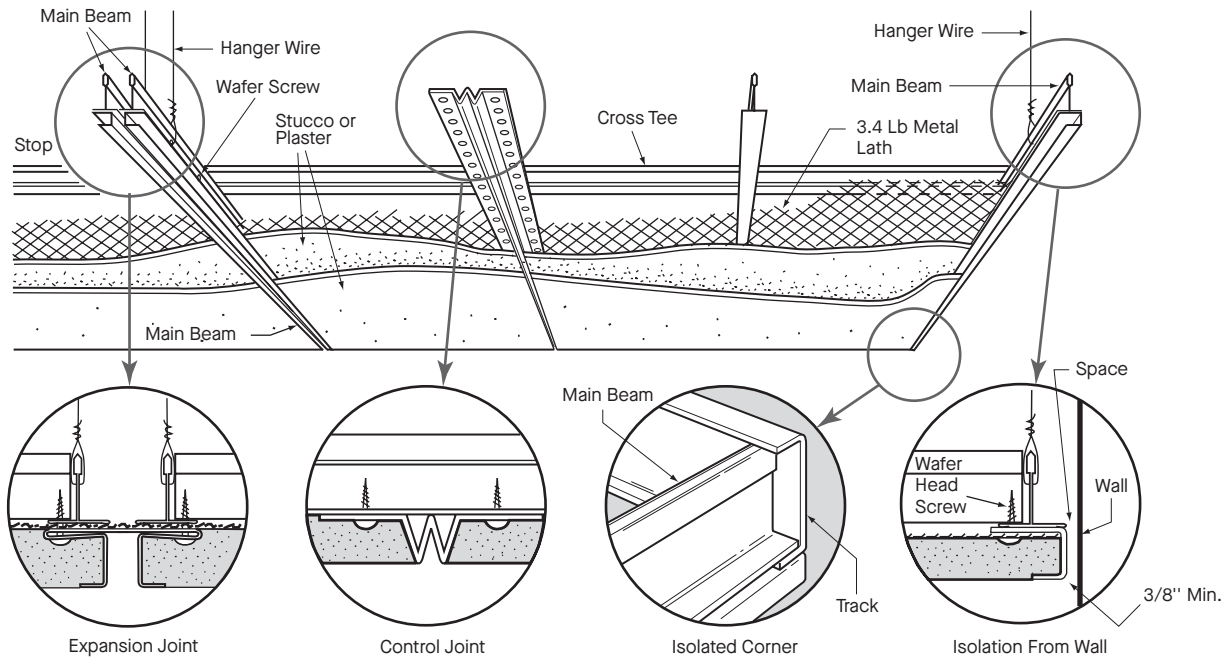


STUCCO/PLASTER GRID SUSPENSION INSTALLATION

- 1 Install the main beams with 9-gauge wires. Space main beams 36" O.C. Hanger wire and compression post spacing as required for specific wind load and plenum depth.
- 2 Install 36" cross tee to required O.C. 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" × 8'-0"
 - b. 3/8", 3.4# rib diamond mesh lath 27" × 8'-0"
 - c. 3/8", 3.4# high back rib diamond mesh lath 27" × 8'-0"
 - d. 3/8", 3.4# paper back diamond mesh lath 27" × 8'-0"
- 5 Expansion Joints – Installed in accordance with Metal Lath/Steel Framing Association Specifications/Standards.
- 6 Control Joints – Installed in accordance with Metal Lath/Steel Framing Association Specifications Standards.
- 7 Plaster stops, grounds, and corner pieces are attached to system with wafer head screws and 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 877 276 7876.

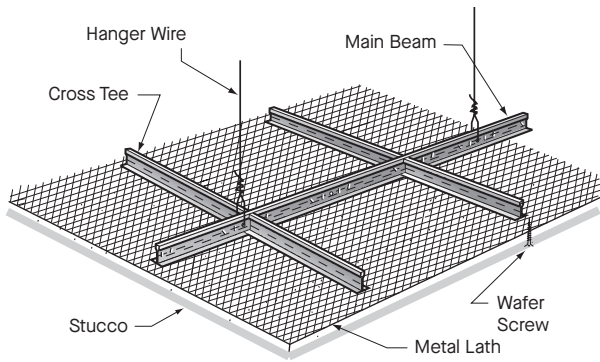
DETAILS OF STUCCO/PLASTER SYSTEMS



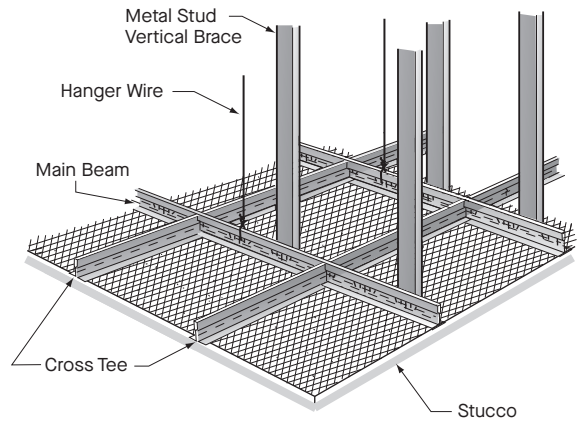
STUCCO/PLASTER DETAILS

DETAILS OF STUCCO/PLASTER SYSTEMS

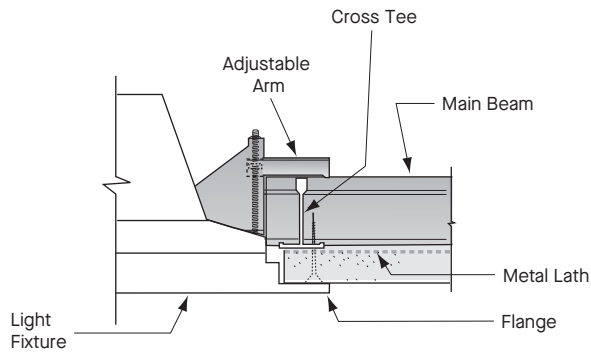
Suspended Metal Lath and Interior Stucco



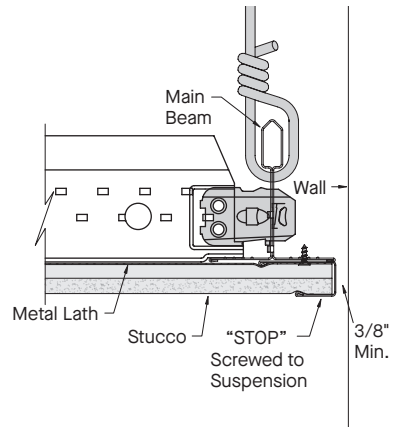
Exterior Wind Loaded Stucco



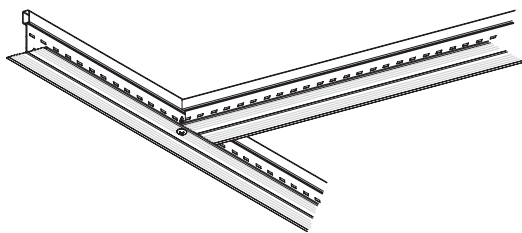
Lighting Troffer



Stucco Perimeter Stop

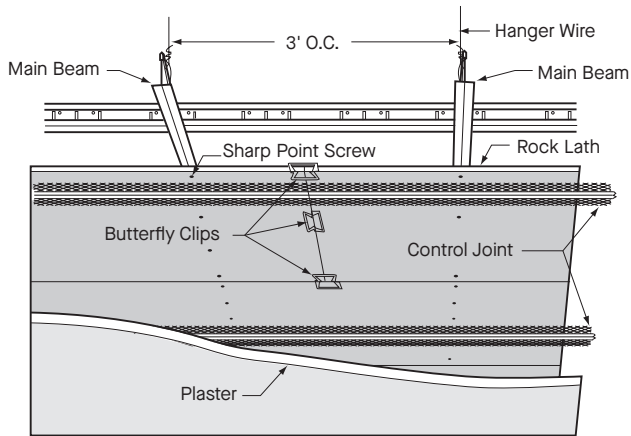


Non-Modular Cut and Screw

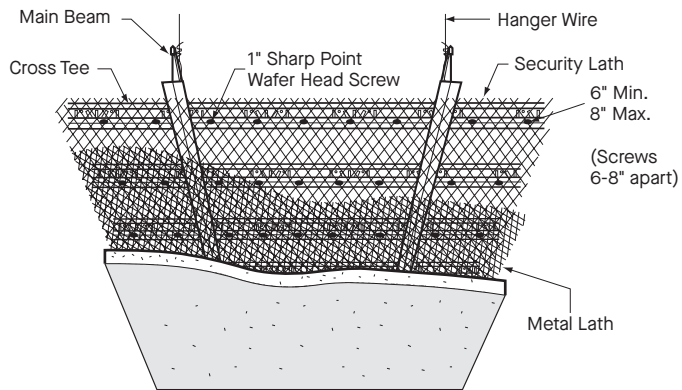


DETAILS OF STUCCO/PLASTER SYSTEMS

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
6' 1" ↓ 10' 3" ****	172	75	2 1/2" CSJ	18	See NOA 14-1204.05 Design	2'	36	13.5	2'	3	452
	172	75	2 1/2" CSJ	18	See NOA 15-0127.04 Design	2' -6"	36	13.5	2' -6"	3	565
	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
10' 4" ↓ 15' 0" ****	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 14-1204.05 Design	2'	36	13.5	2'	3	452
	172	75	2 1/2" CSJ	18	See NOA 15-0127.04 Design	2' -6"	36	13.5	2' -6"	3	565
	*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
15' 1" ↓ 20' 0" ****	*60	8.108	2 1/2" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -9"	36	13.5	4'	3	101
	*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
	**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
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20' 0" ↓ 20' 0" ****	**60	8.108	3 5/8" CSJ	18	3/8" 3.4 Lb Lathing & 3/4"-1" Stucco	2' -9"	36	13.5	4'	3	101
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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
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	172	75	3 5/8" CSJ	18	See NOA 14-1204.05 Design	2'	36	13.5	2'	3	452
	172	75	3 5/8" CSJ	18	See NOA 15-0127.04 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".

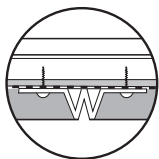
*** Compression Post and Ceiling system Tested at the Plenum design depth shown here for Positive and Negative Wind Speed pressure Loads as listed.

**** 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.

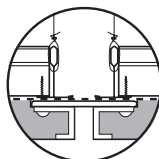
Non-Impact Miami / Dade County EIFS Exterior Ceiling Design NOA 14-1204.05 Design Hurricane Zone Approved

Impact Rated EIFS Exterior Ceiling Design with 5/8" F/R plywood added to membrane Miami / Dade County NOA 15-0127.04 Hurricane Zone Approved

CONTROL JOINTS / EXPANSION JOINTS



Reference section
7.11.4.1-7.11.4.3
for location
and spacing of
control joints.



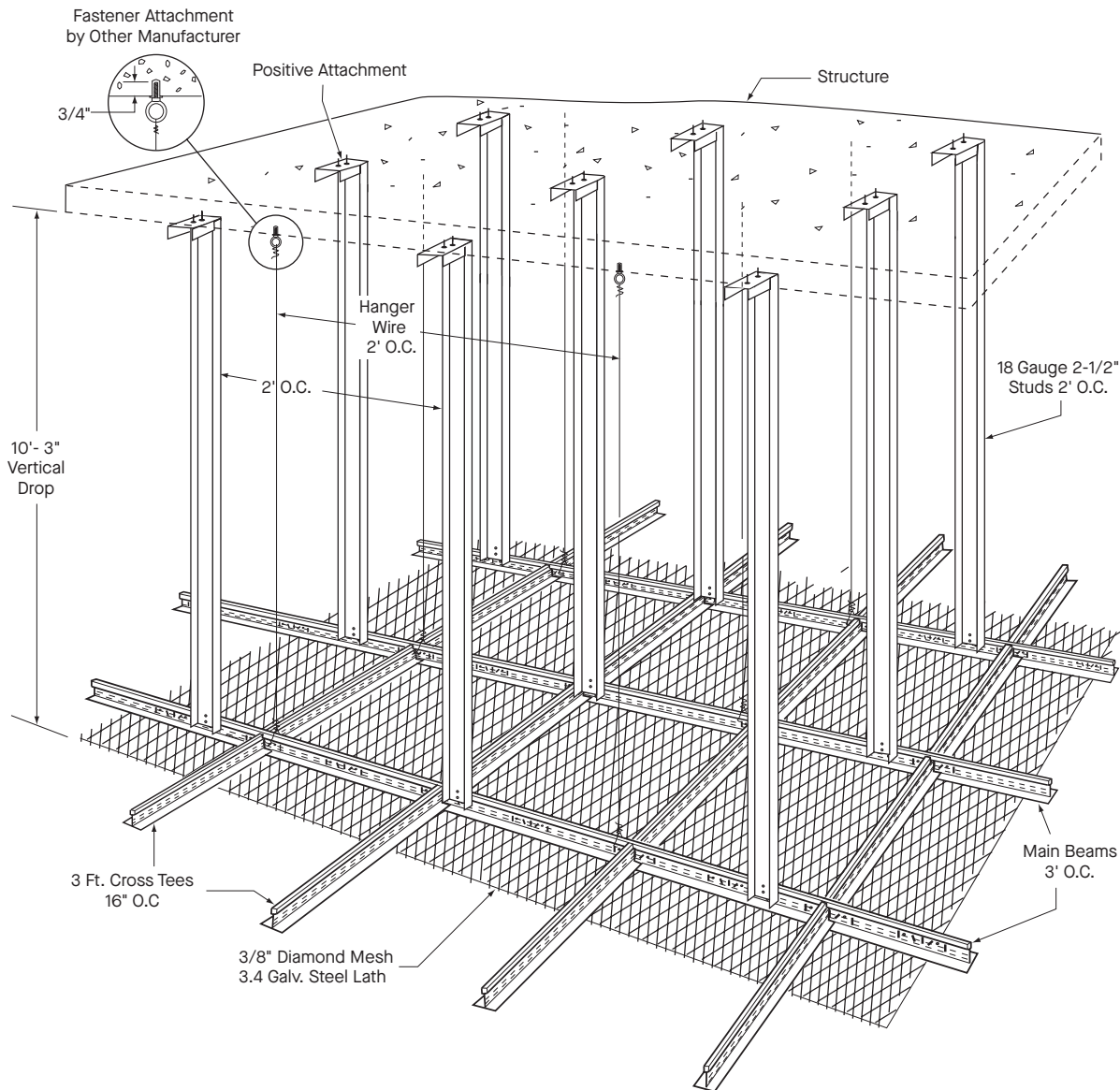
Ceiling expansion joints are installed to separate the metal suspension system when expansion joints occur in buildings, or when metal changes direction. Expansion joints are required to separate a system in T-, H-, I-, and U- or circle-shaped buildings to eliminate cracking from expansion.

MEMBRANE LOAD VALUES

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

EXTERIOR WIND LOAD BRACING TO CONCRETE SLAB

For maximum wind speed of 172 MPH.



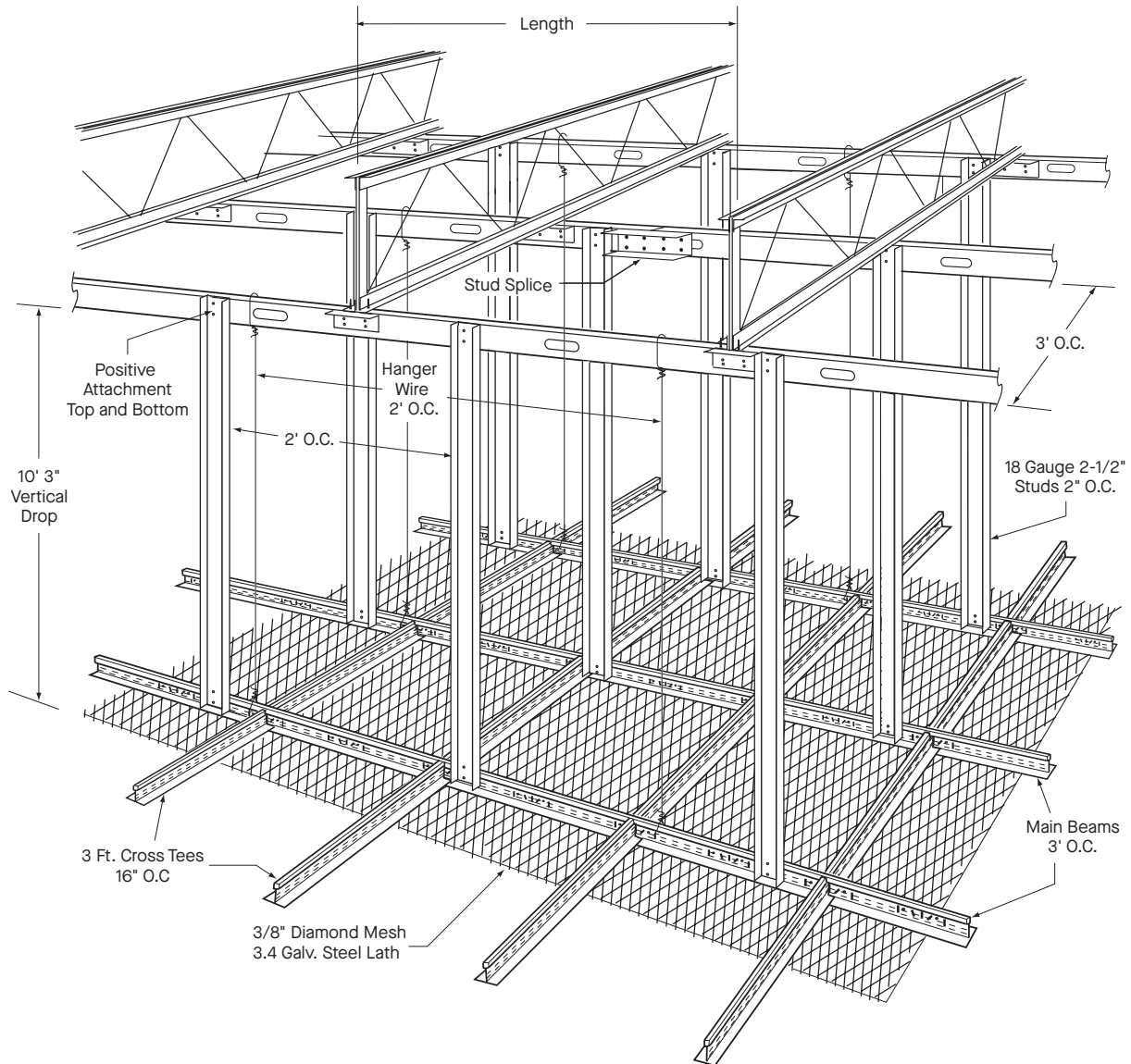
NOTES

- | | |
|---|---|
| <p>1 Wind Load Brace 2-1/2" 18-Gauge Steel 2' O.C.</p> <p>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.</p> <p>3 From 10'-4" to 15' 18-Gauge 2-1/2" Metal Studs Minimum
16 Gauge CRC Mid Span.</p> <p>4 From 15' to 20' 18 Gauge 2-1/2" Metal Studs Minimum
16 Gauge CRC 1/3 Points.</p> | <p>5 Item 3 and 4 above CRC Bracing Shown on
Other Drawings.</p> <p>6 Main Beams 3' O.C. / Cross Tees 16" O.C.</p> <p>7 Positive Attachment Metal Studs Top and Bottom.</p> <p>8 #9 Hanger Wire – as shown above.</p> |
|---|---|

WIND LOAD BRACING

EXTERIOR WIND LOAD BRACING TO METAL BAR JOISTS

For maximum wind speed of 172 MPH.

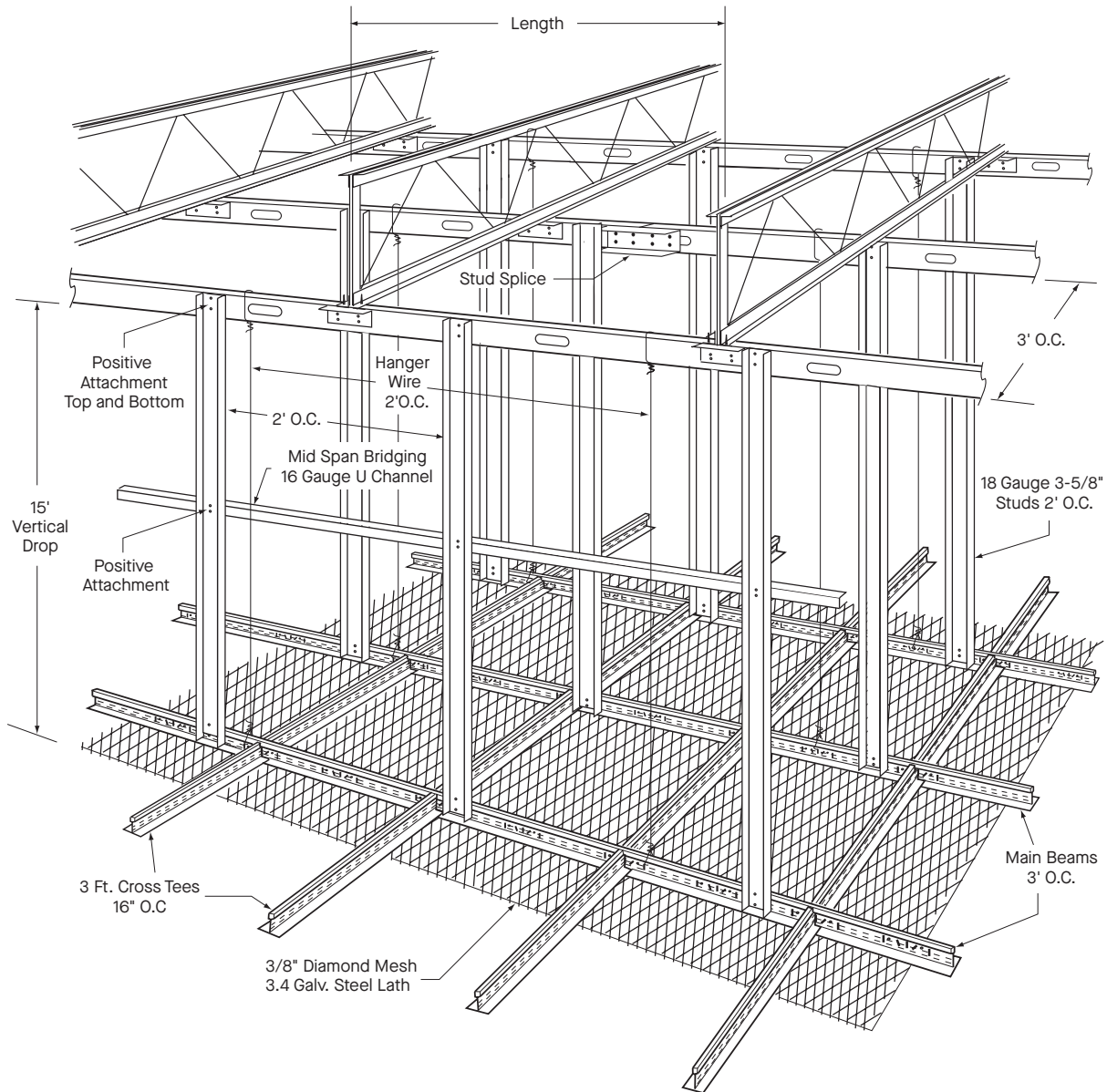


NOTES

- 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

For maximum wind speed of 172 MPH.



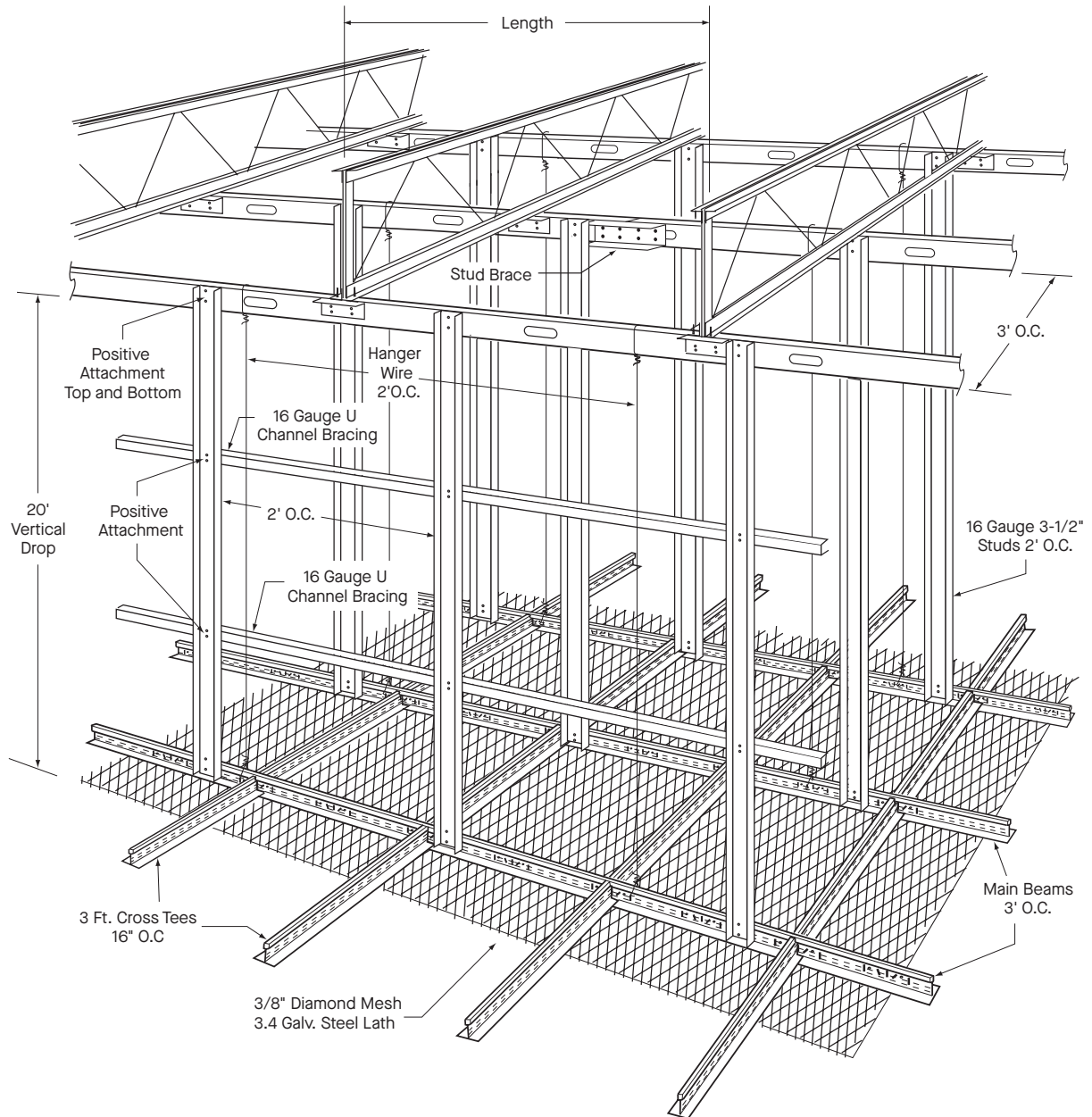
NOTES

- 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

WIND LOAD BRACING

EXTERIOR WIND LOAD BRACING TO METAL BAR JOISTS

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.

ESTABLISHING AN ARC

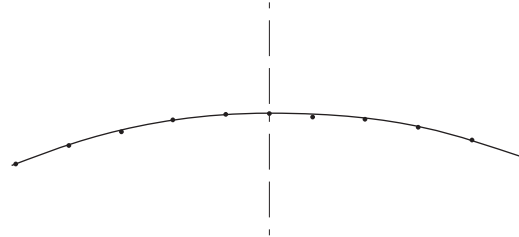
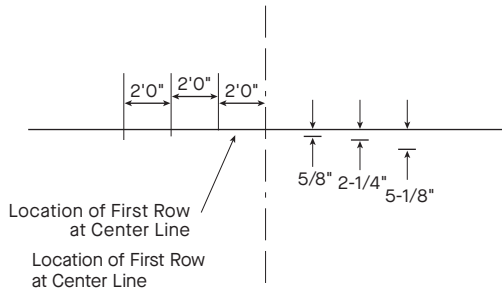
Draw radius on template (plywood, gypsum board, etc.)

- 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 17.

4 Connect points to form a smooth arc.

Example: 43' arc using chart on page 19

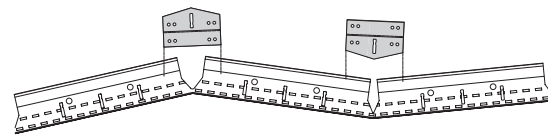


COMPLETING THE TEMPLATE - OPTION 1

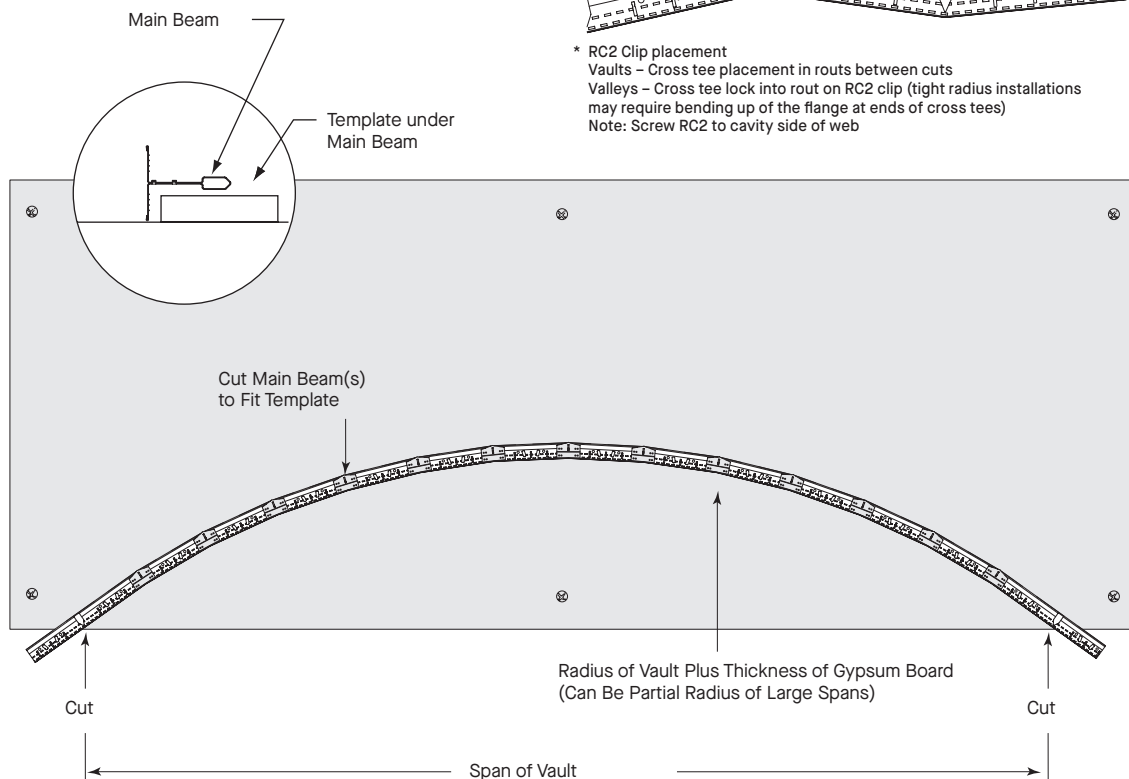
- 1 Cut along the arc and remove section of template.
- 2 Cut main beam as required and position along the cut radius on the template (use chart on page 19).

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.

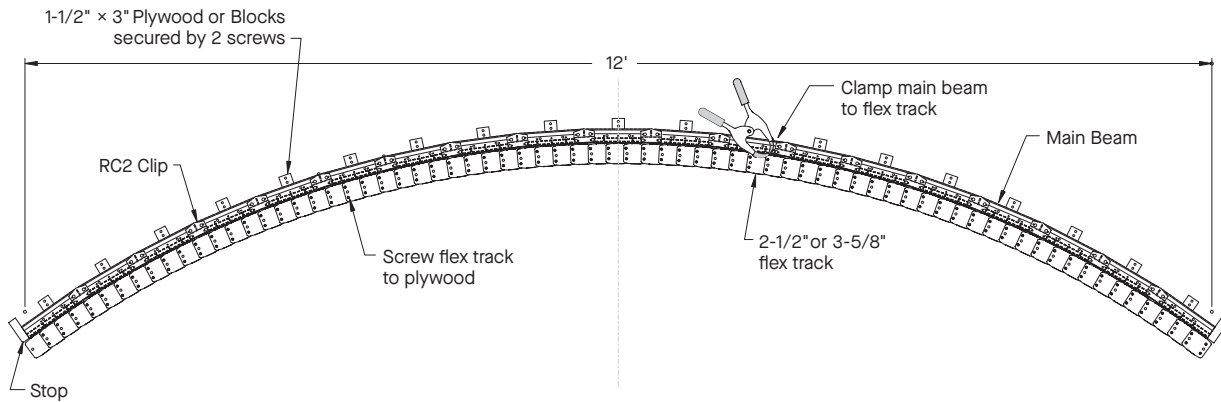


* RC2 Clip placement
 Vaults - Cross tee placement in routs between cuts
 Valleys - Cross tee lock into rout on RC2 clip (tight radius installations may require bending up of the flange at ends of cross tees)
 Note: Screw RC2 to cavity side of web



MAKING A TEMPLATE

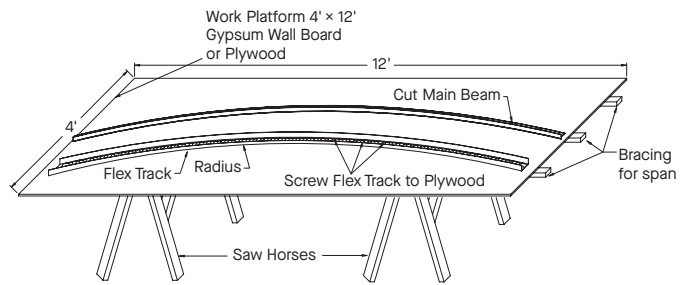
COMPLETING THE TEMPLATE - OPTION 2



- 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 DIMENSIONS

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' Increments from Center Line	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"	17"	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"	1/8"	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"						

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