

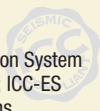
PRELUDE® XL

15/16" Exposed Tee System for Exterior Applications

Prelude XL 15/16" Exposed Tee System for Exterior Applications offers maximum protection when severe environmental performance is required.

Key Selection Attributes

- **Seismic Rx®** Suspension System saves time and money; ICC-ES approach to installations (ESR-1308)
- **PeakForm®** patented profile increases strength and stability for improved performance during installation
- **SuperLock™** staked-on stainless steel clip provides secure locked connection; easy to remove, reuse and relocate.
- Main beams, cross tees and wall molding are **minimum G90** hot dipped galvanized steel with prefinished G90 steel capping.
- Rotary-stitched during manufacture by a patented method for additional torsional strength and extra stability during installation.
- **XL²™** staked-on stainless steel clip provides secure locked connection; easy to remove, reuse and relocate.
- 15-year Limited MetalWorks Vector™ Exterior Applications Systems Warranty.
- System conforms to ASTM C635 for Severe Environmental Performance.



Typical Applications

- Non-exposed exterior corridors
- Drive-thru areas
- Verandas, porches, covered galleries
- Indoor parking garages

Color Selection

- WH - White Steel

NOTE: Color chips included with samples of Armstrong grid. See your Armstrong representative for sample material.

NOTE: Installation drawings are included in the MetalWorks Vector for Exterior Applications installation instructions, LA-295587

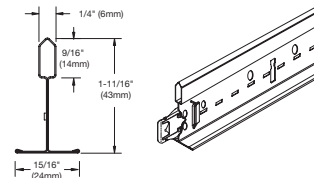
Product Description

Materials

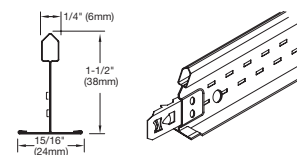
A. General: ASTM C635 Heavy-duty main beam classification, commercial-quality G90 hot dipped galvanized steel. All surfaces chemically cleansed, with prefinished G90 steel capping in baked polyester paint.

B. Components:

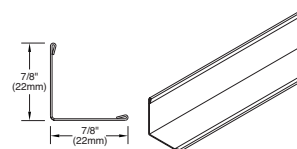
1. Main Beams: Double-web construction, web height 1-11/16" with peaked roof top bulb and 15/16" flange with prefinished steel capping.
- 7301G90A (144", routs 6" OC, heavy-duty)
 Other _____



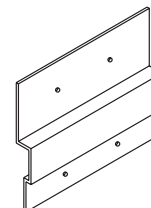
2. Cross Tee: Double-web construction, web height 1-11/16", with peaked roof top bulb and 15/16" flange with prefinished steel cap and override at each end. Staked-on end detail allows easy cross tee removal and remounting.
- XL7321G90A (24")
 XL7341G90A (48")
 Other _____



3. Wall Molding: Hemmed angle molding with prefinished steel capping and exposed flanges.
- HD7801G90A (120", angle molding, nominal 7/8")
 Other _____



4. Accessories: Hot dipped galvanized steel; unpainted.
- BACG90 - Bracing Attachment Clip.



PRELUDE® XL

15/16" Exposed Tee System

Armstrong Exterior Ceiling System Wind Load Designs L/240

Plenum Height	Wind Load In (MPH)	Wind Load In (Lbs./F2)	Stud Size (inch's)	Stud Gauge (Ga. No.)	Main Runner Spacing (in.)	Hanger Wire Spacing (in.)	Cross Tee Length (in.)	Cross Tee Spacing (in.)	Compression Post Spacing (in.)	Compression Post Load (Lbs.)
0 To 6'	40	4	2 1/2" STH	22	48"	48"	48"	24"	48"	65.28
	53	7.24	2 1/2" STH	22	48"	36"	48"	24"	36"	86.88
	78	15.7	2 1/2" STH	22	24"	36"	24"	24"	36"	94.2
	90	21.08	2 1/2" STH	22	24"	30"	24"	24"	30"	105.4
	110	30.82	2 1/2" STH	22	24"	24"	24"	24"	24"	123.68
6'1" To 10'3"	40	4	2 1/2" STH	22	48"	48"	48"	24"	48"	65.28
	53	7.24	2 1/2" STH	22	48"	36"	48"	24"	36"	86.88
	78	15.7	2 1/2" STH	22	24"	36"	24"	24"	36"	94.2
	90	21.08	2 1/2" STH	22	24"	30"	24"	24"	30"	105.4
	110	30.82	2 1/2" STH	22	24"	24"	24"	24"	24"	123.68
10'4" To *15'0"	40	4	2 1/2" STH	22	48"	48"	48"	24"	48"	65.28
	53	7.24	2 1/2" STH	22	48"	36"	48"	24"	36"	86.88
	78	15.7	2 1/2" STH	22	24"	36"	24"	24"	36"	94.2
	90	21.08	2 1/2" STH	22	24"	30"	24"	24"	30"	105.4
	110	30.82	2 1/2" STH	22	24"	24"	24"	24"	24"	123.68
15'1" To **20'0"	40	4	2 1/2" STH	22	48"	48"	48"	24"	48"	65.28
	53	7.24	2 1/2" STH	22	48"	36"	48"	24"	36"	86.88
	78	15.7	2 1/2" STH	22	24"	36"	24"	24"	36"	94.2
	90	21.08	2 1/2" STH	22	24"	30"	24"	24"	30"	105.4
	110	30.82	2 1/2" STH	22	24"	24"	24"	24"	24"	123.68

Ceiling System= 7301 G90 Main Runner 12 ft./ Cross Runners XL7341 G90 4ft./ XL7321 G90 2ft.

*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 Designed at the Plenum depth shown here for Positive and Negative Loads.

Compression Post Assemblies for plenum design depth Calculated by Dietrich Design Group.

For Heights over 33 feet above ground level, reference 2006 IBC Section (1609.3) and ASCE7 Section 6.5.4.2

Exposure and Gust Factor Coefficient

Compression Post Assemblies for plenum design depth Calculated by Dietrich Design Group.

For Heights over 33 feet above ground level, reference 2006 IBC Section (1609.3) and ASCE7 Section 6.5.4.2

Exposure and Gust Factor Coefficient

Exterior Ceramaguard Maximum Board Weight 1.52 (lb/Ft²)
Stud Products & Properties Based on Dietrich Industries Inc.

Physical Data

Material

Hot dipped galvanized steel with steel cap

Surface Finish

Baked polyester paint

Face Dimension

15/16"

Profile

Exposed tee

Cross Tee/Main Beam Interface

Override

End Detail

Main Beam: Staked-on clip

XL Cross Tee: Staked-on clip

Duty Classification

Heavy-duty

Main Beam Load Test Data

MAIN BEAMS	LENGTH	WEB HEIGHT	ASTM CLASS	HANGER SPACING	
				Lbs./LF. (Simple Span)**	
7301G90A	144"	1-11/16"	Heavy-duty	4'	5'
				16.5	6.92

Cross Tee Load Test Data

MAIN BEAMS	LENGTH	WEB HEIGHT	ASTM CLASS	HANGER SPACING	
				Lbs./LF. (Simple Span)**	
XL7321G90A	24"	1-11/16"		4'	74.38
XL7341G90A	48"	1-11/16"		4'	16.59

Seismic Performance

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
7301G90A	446.7
CROSS TEES	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
XL7321G90A, XL7341G90A	433.5

ICC Reports

For areas under ICC jurisdiction, see ICC evaluation report number 1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions and possible cancellation.

**To derive maximum lbs/SF, divide the on-center spacing of the component into the lbs/LF given in the load test data table.

Wind Uplift Performance

Tested for wind uplift capacity up to Class 90. Contact Techline at 1 877 ARMSTRONG for installation instructions and documentation.

TechLineSM / 1 877 ARMSTRONG
1 877 276 7876

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