

PRELUDE® Concealed Suspension System



SUSTAIN™
High Performance
Sustainable
Ceiling Systems



Prelude® Concealed suspension system

Sophisticated slotted suspension system with a narrow 1/4" reveal.

KEY SELECTION ATTRIBUTES

- PeakForm® profile increases strength and stability for improved performance during installation
- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim (Cleaning and CDC approved disinfecting options available on armstrongceilings.com/cleaning)
- SuperLock™ main beam clip is engineered for a strong, secure connection and fast, accurate alignment confirmed with an audible click; easy to remove/relocate
- Hot-dipped galvanized coating inhibits red rust better than electrogalvanized or painted systems
- 10-year limited warranty; 30-year limited warranty with HumiGuard® Plus products

- Main beams and cross tees can be ordered with special sizing and rout spacing for your project needs
- Rotary-stitched during manufacture for additional torsional strength and extra stability during installation
- Upward access angles for limited plenum access; use DAC for downward access

COLORS

White (WH)	Unpainted	
7301	7446	7445
7300	7426	7425
ML7343	7447	7870
XL7342	7427	7428
ML7323	7486	7418
XL7328	7436	7437
7835		
7830		
7449RI		
DAC		

VISUAL SELECTION

	Item No.	Description	Dimensions (Inches)	HANGER SPACING* LBS/LF	
				4 Ft.	5 Ft.
PRELUDE® Concealed 15/16"	7301	12' HD Main Beam	144 × 15/16 × 1-11/16"	16.50	8.73
	7300	12' ID Main Beam	144 × 15/16 × 1-11/16"	12.80	6.35
	ML7343	4' Cross Tee	48 × 15/16 × 1-1/2"	9.00	N/A
	XL7342	4' Cross Tee	48 × 15/16 × 1-1/2"	9.00	N/A
	ML7323	2' Cross Tee	24 × 15/16 × 1-1/2"	38.63	N/A
	XL7328	2' Cross Tee	24 × 15/16 × 1-3/8"	38.63	N/A
PRELUDE Concealed 3/4"	7446	4' Tee Spline	48 × 3/4 × 7/8"	N/A	N/A
	7436	3' Tee Spline	36 × 3/4 × 7/8"	N/A	N/A
	7426	2' Tee Spline	24 × 3/4 × 7/8"	N/A	N/A
PRELUDE Concealed 7/16"	7449RI	4' Single Leaf Tee – Right	48 × 7/16 × 1-1/4"	N/A	N/A
	7447	4' Concealed Angle	48 × 7/16 × 1-1/4"	N/A	N/A
	7437	3' Concealed Angle	36 × 7/16 × 1-1/4"	N/A	N/A
	7427	2' Concealed Angle	24 × 7/16 × 1-1/4"	N/A	N/A
Suggested Molding (Additional molding options available. Visit armstrongceilings.com/moldings)	7835	10' Channel Molding (7/8")	120 × 7/8 × 1-3/4 × 9/16"	N/A	N/A
	7830	10' Channel Molding (7/16")	120 × 15/16 × 1-15/16 × 15/16"	N/A	N/A

* Simple Span

PERFORMANCE

Fire Guard™	Seismic Category	CleanAssure™ Disinfectable Grid		
		Fog	Spray	Wipe
DEF				

PACKAGING

Pieces/ Carton	LF/ Carton
20	240
20	240
60	240
60	240
60	120
60	120
125	500
125	375
125	250
75	300
75	300
100	300
150	300
20	200
16	160

Dots represent high level of performance.

ASTM Class
HD - Heavy-duty
ID - Intermediate-duty
LD - Light-duty

PRELUDE® Concealed Suspension System



LEED® WELL™ LBC

UP TO **25% RECYCLED CONTENT**

energy management, construction waste mgmt, regional materials, design for flexibility, EPD, recyclable/repurposed producer resp., biobased materials, recycled content, sourcing of raw materials, material ingredient reporting, low emitting materials, lighting quality, acoustics

Calculate sustainability with Ecomedes armstrongceilings.com/ecomedes

LOCATION DEPENDENT

MAXIMUM FIXTURE WEIGHT Drawing Key: Main beam (↑) Cross tee (---) Hanger wire (+)

Configuration	Item No.	Fixture			Planning Module			Hanger Spacing			Maximum Weight		
		A	B	C	A	B	C	A	B	C	A	B	C
	7300 7301	24" x 48"	12" x 48"	24" x 48"	48" x 48"	48" x 48"	48" x 48"	48"	48"	48"	54.26 lbs.	42.17 lbs.	49.27 lbs.
											54.26 lbs.	54.26 lbs.	54.26 lbs.
	ML7343 XL7342	24" x 48"			48" x 48"†			48"			51.0 lbs 40.89 lbs.		

Main beams tested as follows: 7300 tested at 13.0 lbs./LF to 1/360 of 4' span; 7301 tested at 16.5 lbs./LF to 1/360 of 4' span; 8500 tested at 13.3 lbs./lin. ft. to 1/360 of 4' span. 48" cross tee tested at 10.34 lbs./lin. ft. to 1/360 of 4' span.

Fixtures weighing more than 56 lbs. should be independently supported. Fixture weight is based on single fixture only. For end-to-end fixtures or other configurations not shown, consult your Armstrong Ceilings representative.

NOTE: The above data is based on 48" hanger wire spacing, board weight of 1 lb./SF, maximum deflection of tees not to exceed 1/360 of the span, and suspension system installed in accordance with ASTM C636.

ACCESSORIES

Description	
Tee Spline: Spans distance between main beams or cross tees to support tile. Ribbed flange to minimize lipping	
7426	24", 7/8" web, 3/4" flange
7436	36", 7/8" web, 3/4" flange
7446	48", 7/8" web, 3/4" flange
Other	Aluminum
Concealed Angle: Use with access hook to support tile.	
7427	24", 1-1/4", 7/16"
7437	36", 1-1/4", 7/16"
7447	48", 1-1/4", 7/16"
Other	
Access Hook: Supports tile, provides upward access to plenum.	
7418	12"
7428	24"
Other	Aluminum
Stabilizer Bar: Aligns main beams 24" and 48" O.C.	
7425	24"
7445	48", center notched
Other	Aluminum

Description	
Border Clip: Installs between ceiling tiles and perimeter closures.	
7870	
Breather Spline: Prevents breathing in tiles installed without main beams, cross tees, splines, access members. Ribbed to minimize tile lipping.	
7486	
Other	
Single Leaf Tee: Use with Access Hook 7418	
7449-LE	48", 1-1/4", 7/16", left
7449-RI	48", 1-1/4", 7/16", right
Other	
DAC	Downward Access Clip

SEISMIC PERFORMANCE

Main Beams
7300, 7301
Minimum Lbs. To Pull Out Compression/Tension
255.0
Cross Tees
XL7342, XL7328, ML7343, ML7323

Minimum Lbs. To Pull Out Compression/Tension
Exceeds 300 lbs. in compression/tension

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.

PHYSICAL DATA

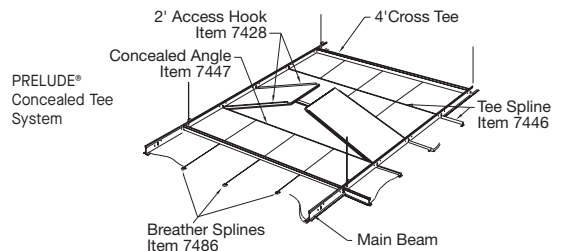
Material
Hot-dipped galvanized steel)
Surface Finish
Cross Tee/Main Beam: Baked polyester paint
Concealed Components: Unpainted steel
Manufactured and tested in accordance with ASTM C635
End Detail for 1-1/2"
Main Beam: 7300, 7301 – Staked-on clip
XL Cross Tees: Staked-on clip
ML Cross Tees: Staked-on hook

Design Considerations
All acoustical grid and Axiom trim accessories (a.k.a. clips) are supplied as unpainted items. Exposed clips will need to be field painted after installation, if required for the project. This ensures accessories meet the tested performance criteria and adhere to AWI installation instructions and warranted products or systems.

Cleaning and Disinfecting
Cleaning and CDC recommended disinfecting options available on armstrongceilings.com/cleaning

Duty Classification
Intermediate or Heavy-duty
Main Beam Load Test Data

DETAILS



MAIN BEAM LOAD TEST DATA

Main Beams	Length	Web Height	ASTM Class	HANGER SPACING (LBS./LF. SIMPLE SPAN)	
				4'	5'
7300	144"	1-11/16"	Intermediate-duty	12.8	6.9
7301	144"	1-11/16"	Heavy-duty	16.7	9.0

Cross Tee Load Test Data

ML7323	24"	1-1/2"	N/A	38.63	N/A
ML7343	48"	1-1/2"	N/A	9.00	N/A
XL7328	24"	1-3/8"	N/A	40.45	N/A
XL7342	48"	1-1/2"	N/A	9.00	N/A