Armstrong®

Recycled Content: 25%

Prelude® Concealed Tee System

Prelude Concealed Tee System provides a clearance solution with an invisible suspension system appearance.

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
- **SuperLock²™** main beam clip is engineered for a strong, secure connection and fast accurate alignment confirmed with an audible click; easy to remove and relocate
- Hot dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- XL² (staked-on stab end detail) or ML (hook end detail) options provides secure locked connection; easy to remove, reuse and relocate
- Monolithic ceiling appearance
- For 12″ x 12″ K4C4 (kerfed and back-cut on all four sides) ceiling tile
- 10-year limited warranty; 30-year with **HumiGuard™ Plus**

Typical Applications

- Older buildings with minimal overhead clearance

Product Description

Materials

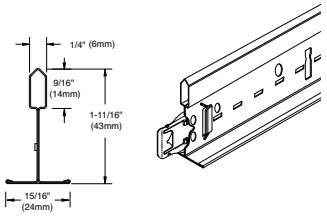
A. General:

ASTM C635 (Intermediate-duty)(Heavy-duty) main beam classification, commercial-quality hot dipped galvanized steel. Exposed surfaces chemically cleansed, galvanized capping prefinished 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″ bottom flange with prefinished steel capping; one fire expansion relief per fire rated main beam.

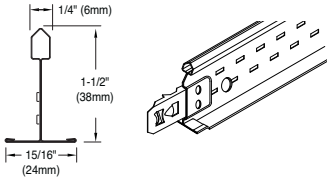
☐ 7300 (144″, routs 6″ OC, Intermediate-duty)
☐ 7301 (144″, routs 6″ OC, Heavy-duty)



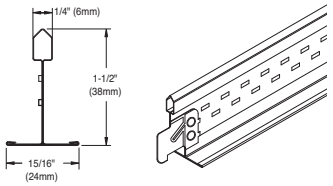
2A. Cross Tees: Double rotary-stitched, double-web construction, web height 1-1/2″ and 15/16″ flange. Hook-type end detail or staked-on XL clip allows cross tee removal and remounting

☐ XL7342 (48″, routs 12″ OC)

2A.



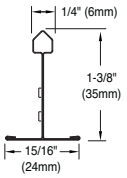
☐ ML7323 (24″)
☐ ML7343 (48″, routs 12″ OC)
☐ Other _____



2B. Cross Tees: Double rotary-stitched, double-web height 1-3/8″ and 15/16″ flange. Staked-on end detail or staked-on XL clip allows cross tee removal and remounting.

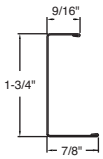
☐ XL7328 (24″)

2B.



3. Wall Moldings: Channel molding with prefinished exposed flange.

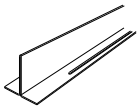
☐ 7835 (120″, hemmed channel molding, nominal 7/8″ hemmed flange)
☐ Other _____



Prelude®
Concealed Tee System

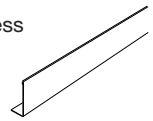
C. Concealed Components:

1. Tee Spline: Spans distance between main beams or cross tees to support tile. Ribbed flange to minimize lipping.



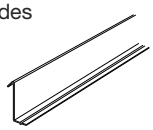
☐ 7426 (24″, 7/8″ web, 3/4″ flange)
☐ 7436 (36″, 7/8″ web, 3/4″ flange)
☐ 7446 (48″, 7/8″ web, 3/4″ flange)
☐ Other _____

2. 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 _____

3. Access Hook: Supports tile, provides upward access to plenum.

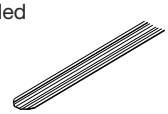


☐ 7418 (12″)
☐ 7428 (24″)
☐ Other _____

4. Border Clip: Installs between ceiling tiles and perimeter closures.

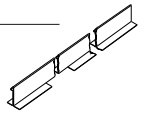
☐ 7870
☐ Other _____

5. Breather Spline: Prevents breathing in tiles installed without main beams, cross tees, splines, access members. Ribbed to minimize tile lipping.



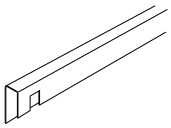
☐ 7486 (11″)
☐ Other _____

6. Single Leaf Tee: Use with Access Hook 7418.



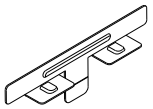
☐ 7449-LE (48″, 1-1/4″, 7/16″, left)
☐ 7449-RI (48″, 1-1/4″, 7/16″, right)
☐ Other _____

7. Stabilizer Bar: Aligns main beams 24″ and 48″ OC.



☐ 7425 (24″)
☐ 7445 (48″, center notched)
☐ Other _____

8. Downward Access Clip:



☐ DAC

Physical Data

Material
Hot dipped galvanized steel

Surface Finish
Cross Tee/Main Beam: Baked polyester paint
Concealed Components: Unpainted steel

End Detail
Main Beam: 7300, 7301 — Staked-on clip
XL Cross Tees: Staked-on clip
ML Cross Tees: Staked-on hook

Duty Classification
Intermediate or Heavy-duty

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

CROSS TEES	LENGTH	WEB HEIGHT	HANGER SPACING Lbs./LF. (Simple Span)** 4′
ML7323	24″	1-1/2″	38.63
ML7343	48″	1-1/2″	9.00
XL7328	24″	1-3/8″	40.45
XL7342	48″	1-1/2″	9.00

Seismic Performance

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
7300, 7301	255.0

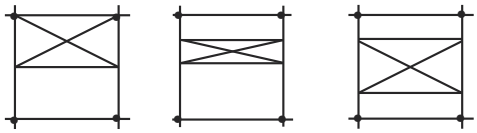
MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
XL7342, XL7328	Exceeds 300 lbs. in compression/tension
ML7343, ML7323	Exceeds 130 lbs. in compression/tension

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.

Maximum Fixture Weight

A. Main Beam to Main Beam

Main Beam ↑
Hanger Wire (•)

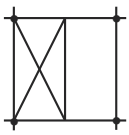


1. Fixture*	**24″ x 48″**	**12″ x 48″**	**24″ x 48″**
2. Planning Module	**48″ x 48″**	**48″ x 48″**	**48″ x 48″**
3. Hanger Spacing	**48″**	**48″**	**48″**
4. Item 7300	**54.26 lbs.**	**42.17 lbs.**	**49.27 lbs.**
7301	**69.27 lbs.**	**63.32 lbs.**	**72.32 lbs.**

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.

B. Cross Tee to Cross Tee

Main beams ↑
Hanger Wire (•)



1. Fixture*	**24″ x 48″**
2. Planning Module	**48″ x 48″†**
3. Hanger Spacing	**48″**
4. Item ML7343	**51.0 lbs.**
XL7342	**40.89 lbs.**

Cross tees tested as follows: ML7343 tested at 9.00 lbs./lin. ft. to 1/360 of 4′ span.
†Locking tees 4′ OC and at fixtures.

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.

*Fixture weight is based on single fixture only. For end-to-end fixtures or other configurations not shown, consult your Armstrong representative.

Fixtures weighing more than 56 lbs. should be independently supported.

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

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