Armstrong®

Recycled Content: 25%

DRYWALL/STUCCO/PLASTER Grid Systems

An economical alternative to stud and track construction that is fast and easy to install. Provides practical solutions to many interior and exterior installation conditions.

Key Selection Attributes

- **PeakForm™** patented profile increases strength and stability for improved performance during installation
- **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
- **"ScrewStop"** reverse hem prevents screw spin off on 1-1/2″ wide face
- Rotary-stitched during manufacture by a patented method for additional torsional strength and extra stability during installation
- HD8906 and HD8901 main beams and cross tees with extra routings for Type F light fixtures
- Minimum G40 hot dipped galvanized coating, per ASTM C 645; provides superior corrosion resistance
- G90 hot dipped galvanized coating is available for exterior applications (HD8906G90, XL8945PG90, XL8947PG90, XL8965G90, XL8925G90, XL7936G90)
- Wind uplift construction available
- XL (staked-on end detail) cross tees provide secure locked connection; fast and easy to install
- All drywall components minimum .018″ steel thickness; complies with ASTM C 645
- Accommodates stud, track, hat channel, wood or other supplemental framing
- Create drywall perimeters for full module acoustical panel installation
- Fire Guard components meet broad range of UL design assemblies (XL7936G90 is not fire rated)
- 10-year limited warranty

Typical Applications

- Indoor/outdoor applications
- Soffits/special transitions
- High visibility areas
- Combination drywall and acoustical panel or tile ceilings
- Barrel vaults and domes
- Wet installations (stucco/plaster)

Product Description

Materials

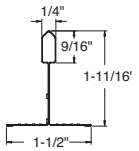
A. General:
ASTM C 635 Heavy-duty main beam classification, ASTM A 653 zinc-coated hot dipped galvanized steel. Exposed surfaces chemically cleansed, zinc-coated and prefinished. Materials conform to the performance standard ASTM C 645 (Standard Specification for Rigid Furring Channels for Screw Applications of Gypsum Board).

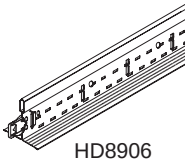
B. Components:

1A. Main Beams: Double-web construction, profile height 1-11/16″ with peaked roof top bulb and 1-1/2″ knurled flange.

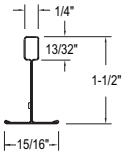
1B. Main Beams: Double-web construction, profile height 1-1/2″ with rectangular top bulb and 15/16″ flange.

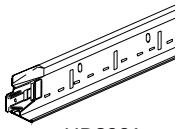
- ☐ HD8906 (144″, 1-1/2″ flange, 51 routs starting 2-1/4″ from each end for Type F light fixture compatibility, fire notch expansion relief in web, galvanized)
- ☐ HD8901 (144″, 15/16″ flange, 51 routs starting 2-1/4″ from each end for Type F light fixture compatibility, fire notch expansion relief in web, galvanized)
- ☐ Other _____





HD8906

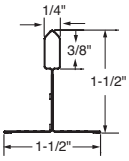


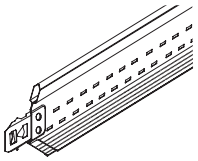


HD8901

2A. Cross Tees:
Double-web construction, profile height 1-1/2″ with peaked roof top bulb and 1-1/2″ knurled flange.

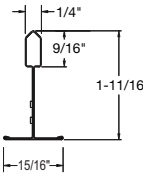
- ☐ XL8965 (72″, 2 routs, starting 24″ off each end, galvanized) For Type F light fixture compatibility
- ☐ XL8947P (50″, 8 routs, starting 10″ off each end, galvanized) For Type F light fixture compatibility
- ☐ XL8945P (48″, 9 routs, center rout and routes starting 10″ off each end, galvanized) For Type F light fixture compatibility
- ☐ XL7936G90 (36″, no routs, galvanized)
- ☐ XL8925 (26″, 2 routs, 12″ off each end, galvanized) For Type F light fixture compatibility
- ☐ XL8926 (24″, 3 routs, center rout and 12″ off each end, galvanized) For Type F light fixture compatibility
- ☐ XL7918 (14″, no routs, galvanized) For Type F light fixture compatibility
- ☐ Other _____

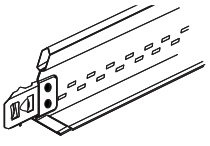




2B. Cross Tee:
Double-web construction, profile height 1-11/16″ with peaked roof top bulb and prefinished 15/16″ flange.

- ☐ XL7341 (48″, 3 routs starting 12″ from each end, galvanized)
- ☐ XL8341 (48″, center rout, galvanized)
- ☐ Other _____





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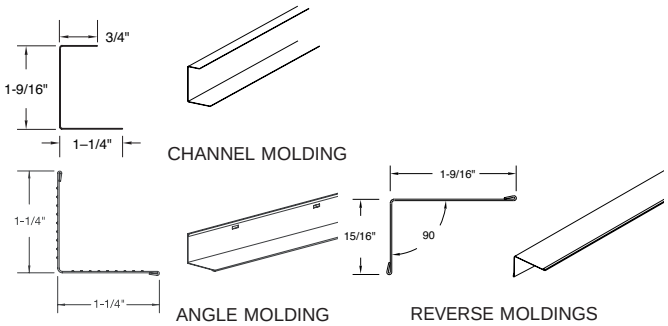
6. Wall Moldings: galvanized steel.

- ☐ 7838 (120″, unhemmed channel molding, nominal 3/4″ x 1-9/16″, 1-1/4″)
- ☐ 7858 (144″, hemmed reverse angle molding, nominal 1-9/16″ x 15/16″)
- ☐ KAM10 (120″, hemmed angle molding, nominal 1-1/4″ x 1-1/4″)
- ☐ KAM12 (144″, hemmed angle molding, nominal 1-1/4″ x 1-1/4″)
- ☐ Other _____



7. Accessories: (see Drawall Accessories Submittal Sheet, CS-3082).

Physical Data

Material
Hot dipped galvanized steel

Surface Finish
Unpainted steel

Fire Resistance Rating
Resistive when used in applicable UL fire resistive designs. Fire Guard components meet UL Design Listings D501, D502, G523, G524, G526, G527, G528, G529, J502, L502, L508, L513, L515, L525, L526, L529, L564, P501, P506, P507, P508, P509, P510, P513, P514, P516 (XL7936G90 is not fire rated)

NOTE: See UL Dirrectory for details on specific designs.

Cross Tee/Main Beam Interface
Override

End Detail
Main Beam: Staked-on clip - HD8906
Main Beam: Coupling - HD8901
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)** L/240 2′	L/240 3′	L/240 4′	L/360 2′	L/360 3′	L/360 4′
HD8901	144″	1-1/2″	Heavy-duty	123.2	46.3	24.75	80.1	31.4	16.50
HD8906	144″	1-11/16″	Heavy-duty	143.0	57.3	28.14	95.50	35.8	18.76

Cross Tee Load Test Data

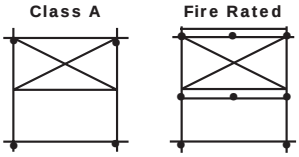
CROSS TEE	LENGTH	WEB HEIGHT	HANGER SPACING (Lbs./LF. Simple Span)** L/240 2′	L/240 3′	L/240 4′	L/240 50″	L/240 72″	L/360 2′	L/360 3′	L/360 4′	L/360 50″	L/360 72″
XL7918	14″	1-1/2″	107.0					71.5				
XL8926	24″	1-1/2″	158.0					129.0				
XL8925	26″	1-1/2″	117.0					98.0				
XL7936G90	36″	1-1/2″		50.0					33.3			
XL7341	48″	1-11/16″			24.8					16.59		
XL8341	48″	1-1/2″			24.8					16.59		
XL8945P	48″				22.5					15.0		
XL8947P	50″					19.5					13.0	
XL8965	72″						6.4					4.27

Seismic Performance
Seismic loading: ICC Evaluation Service, Inc. ESR-1289
2003 International Building Code
1997 Uniform Buiding Code, Continuous Membrane, One Level;
Per Section 25.210. Consult local code for requirement.

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
HD8901	348.0
HD8906	374.0

CROSS TEES	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
XL7918, XL8926, XL8925, XL7936G90, XL7341, XL8341, XL8945P, XL8947P, XL8965	377.0

Maximum Fixture Weight



	Class A	Fire Rated
1. Fixture*	24″ x 48″	
2. Planning Module	48″ x 48″	
3. Hanger Spacing	48″	
4. Item HD8901	90.0 lbs.	90.0 lbs.
Item HD8906	90.0 lbs.	90.0 lbs.

Main Beams tested as follows: HD8906 tested at 18.76 lbs./lin ft. to 1/360 of 4′ span.

NOTE: The above data is based on 48″ hanger wire spacing, board weight of 2 lbs./sq. ft.,maximum deflection of tees not to exceed 1/360 of the span, and suspension system installed in accordance with ASTM C 636.

Fixture weight is based on single fixture only. For end-to-end fixtures 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.

ICC Reports
For areas under ICC jurisdiction, see ICC evaluation report number 1289 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.

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