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SUPRAFINE® XL® / SUPRAFINE ML 9/16" Exposed Tee Systems

Suprafine 9/16" Exposed Tee System combines superior durability and stability with a narrow grid face for a refined 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 (patent pending)
- Hot dipped galvanized coating inhibits red rusting better than electrogalvanized or painted systems
- Rotary-stitched during manufacture by a patented method for additional torsional strength and extra stability during installation
- Cross tees available in XL (staked-on stab end detail) and ML (integral hook end detail); provides secure locked connection; easy to remove, reuse and relocate
- Main beams and cross tees offer double-web construction (minimum 1-1/2" web height); keeps cross tee vertical and stable at light fixture interface
- State-of-the-art expansion relief on Fire Guard options; provides greater strength
- Fire Guard options for UL Designs A202, D216, G229, G243, G244, G256, L210, P225, P251, P253
- 10-year limited warranty; 30-year with **HumiGuard™ Plus** products

Typical Applications

- Offices
- Education
- Hospitality
- Retail
- Healthcare
- Fire Guard applications based on building construction and local fire code requirements

Product Description

Materials

A. General:

ASTM C 635 (Intermediate-duty) (Heavy-duty) main beam classification, commercial-quality cold-rolled hot dipped galvanized steel. Exposed surfaces chemically cleansed, galvanized capping prefinished in baked polyester paint or anodized finish.

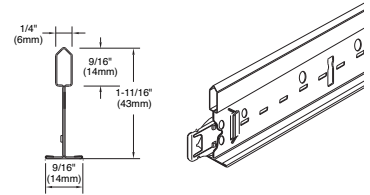
B. Components:

1A. Main Beams: Double-web, rotary-stitched construction, web height 1-11/16" with peaked roof top bulb and 9/16" flange with prefinished steel capping; one fire expansion relief per main beam.

- 7501 (144", routs 6" OC, Heavy-duty)
- 7500 (144", routs 6" OC, Intermediate-duty)
- 7502 (120", routs 6" OC, Intermediate-duty)
- 754033 (3600mm, routs 150mm OC, Intermediate-duty)

Fire Guard Items:

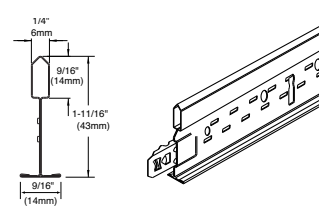
- 8500 (144", routs 6" OC, Intermediate-duty)
- 8501 (144", routs 6" OC, Heavy-duty)
- Other _____



2A. Cross Tees: Double-web, rotary-stitched construction, web height 1-11/16" with peaked roof top bulb and 9/16" flange with prefinished steel capping and override at each end. Staked-on end detail allows cross tee removal and remounting.

- XL7510 (12")
- XL7520 (24")
- XL7570 (30")
- XL7540 (48", routs 12" OC)
- XL7541 (48", routs 12" OC)
- XL7558 (60", routs 20" OC)
- XL7590 (72", routs 12" OC)
- XL7580 (96", routs 12" OC)
- 753032 (1200mm, center rout)
- 752032 (600mm)

A.

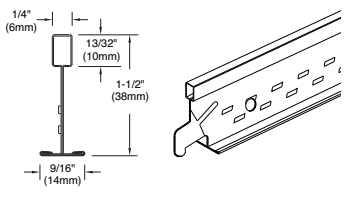


2B. Cross Tees: Double-web, rotary-stitched construction, web height 1-1/2" with rectangular top bulb and 9/16" flange with prefinished steel capping. Hook-type end detail allows cross tee removal without tools.

Fire Guard Items:

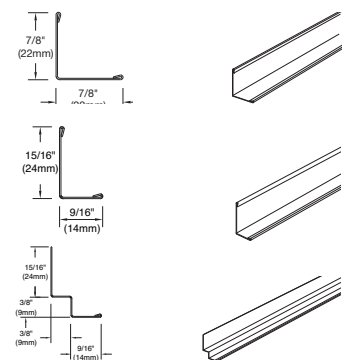
- XL8520 (24")
- XL8540 (48", center rout)
- Other _____
- ML7520 (24")
- ML7540 (48", routs 12" OC)
- Other _____

B.



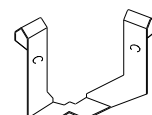
3. Wall Moldings: Hemmed (angle molding) (shadow molding) with prefinished exposed flanges.

- 7800 (144", angle molding, nominal 7/8")
- 7804 (144", angle molding, nominal 9/16")
- 7808 (120", angle molding, nominal 2")
- 780812 (120", angle molding, nominal 2")
- 780410 (120", angle molding, nominal 9/16")
- 7873 (120", shadow molding, nominal 9/16" x 15/16" x 3/8" reveal)
- 7874 (120", shadow molding, nominal 9/16" x 15/16" x 1/4" reveal)
- Other _____



4. Fixture Clip: Prefinished clip for use at corners of light fixture modules.

- LFC
- Other _____





SUPRAFINE® XL/ SUPRAFINE ML

9/16" Exposed Tee Systems



Physical Data

Material

Hot dipped galvanized steel

Surface Finish

Baked polyester paint or anodized

Face Dimension

9/16"

Profile

Exposed tee

Cross Tee/Main Beam Interface

XL - Override

ML - Flush fit

End Detail

Main Beam: Staked-on clip

XL Cross Tee: Staked-on clip

ML Cross Tee: Integral hook

Duty Classification

Intermediate or Heavy-duty

Main Beam Load Test Data

MAIN BEAMS	LENGTH	WEB HEIGHT	ASTM CLASS	HANGER SPACING (Lbs./L.F. Simple Span)**	
				4'	5'
7500	144"	1-11/16"	Intermediate-duty	12.75	5.74
7502	120"	1-11/16"	Intermediate-duty	12.75	5.74
7501	144"	1-11/16"	Heavy-duty	16.86	10.62
8500	144"	1-11/16"	Intermediate-duty	12.75	5.74
8501	144"	1-11/16"	Heavy-duty	16.86	10.62

Cross Tee Load Test Data

CROSS TEE	LENGTH	WEB HEIGHT	HANGER SPACING (Lbs./L.F. Simple Span)**	
			4'	5'
XL7510	12"	1-11/16"	51.8	
XL7520	24"	1-11/16"	51.8	
XL8520	24"	1-11/16"	58.5	
XL7570	30"	1-11/16"	28.67	
XL7540	48"	1-11/16"	10.34	
XL7541	48"	1-11/16"	12.73	
XL8540	48"	1-11/16"	12.73	
XL7558	60"	1-11/16"		5.80
XL7590	72"	1-11/16"	12.73	
XL7580	96"	1-11/16"	12.73	
ML7540	48"	1-1/2"	10.56	
ML7520	24"	1-1/2"	34.0	

Seismic Performance

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
7500, 7501, 7502, 8500	335.0

CROSS TEE	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
XL7558, XL7540 XL7520, XL7510 XL8520, XL7570, XL7590, XL7580, XL8540, XL7541	352.0
ML7540, ML7520	145.4

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.

Color Selection

- WH - White
- CR - Cream
- HA - Haze
- PL - Platinum
- BL - Tech Black
- SA - Silver Satin
- AR - Brass
- AM - Mirror
- MY - Gun Metal Grey
- SG - Silver Grey
- HDC - Hot Dipped Clear
- CM - Camel

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

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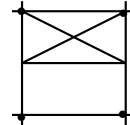
Maximum Fixture Weight

LIGHT FIXTURE

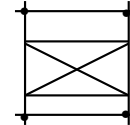
A. Main Beam to Main Beam

Main Beam ↑
Hanger Wire (•)

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item 8500/7500/7502 Item 7501

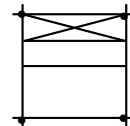


24" x 48"
48" x 48"
48"
73.36 lbs.
100 lbs.

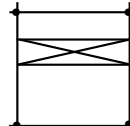


24" x 48"
48" x 48"
48"
57.07 lbs.
70.8 lbs.

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item 7500/7502 Item 7501



12" x 48"
48" x 48"
48"
68 lbs.
85 lbs.



12" x 48"
48" x 48"
48"
44 lbs.
61 lbs.

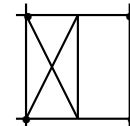
Main beams tested as follows: 7500 tested at 12.7 lbs./lin. ft. to 1/360 of 4' span; 7501 tested at 16.86 lbs./lin. ft. to 1/360 of 4' span; 8500 tested at 13.3 lbs./lin. ft. to 1/360 of 4' span.

LIGHT FIXTURE

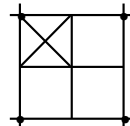
B. Cross Tee to Cross Tee

Main beams ↑
Hanger Wire (•)

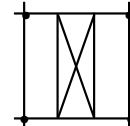
1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item XL7540 Item XL7541 Item ML7540



24" x 48"
48" x 48"
48"
55 lbs.
73 lbs.
65.71 lbs.



24" x 24"
48" x 48"
48"
67 lbs.
84 lbs.
76.0 lbs.



1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item ML7540 Item XL7541

24" x 48"
48" x 48"
48"
46.0 lbs.
52 lbs.

48" cross tee tested at 10.34 lbs./lin. ft. to 1/360 of 4' span.

NOTE: The above data is based on 48" hanger wire spacing, board weight of 1 lb./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 or other configurations not shown, consult your Armstrong representative.

*Fixtures weighing more than 56 lbs. should be independently supported. Light fixture clips are required at all fixture locations.

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