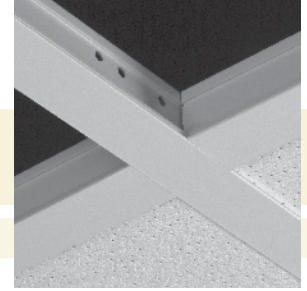


CLEAN ROOM™ Aluminum Grid Systems



Available in co-extruded aluminum*, Clean Room Grid systems offer a choice of 1-1/2" or 15/16" face to facilitate the use of clean room lay-in panels.

Key Selection Attributes

- Suitable for use in Class 5 or greater without hold down clips (Class 100 clean rooms as defined by ISO Standard 14644-1 (Federal Standard 209E) when used with Clean Room FL, Clean Room VL, Health Zone™ Optima®, and Health Zone Ultima®.
- Seismic Rx® Suspension System saves time and money; ICC-ES approach to installations (ESR-1308)

Co-Extruded Aluminum*

- Aluminum construction for maximum corrosion resistance and non-magnetic environments
- Lightly textured PVC face, to better match Clean Room VL panels
- Unique, factory-applied gasket for better seal between panel and grid
- Staked on main beam splice for easy connections and module control
- Integral hook cross tee end detail for easy connections and module control
- 10-year limited warranty; 30-year with HumiGuard® Plus

Typical Applications

- Automotive & aerospace
- Computer rooms
- Hospitals
- High tech manufacturing
- Non-magnetic areas

Color Selection

- WH - White

*All items are co-extruded aluminum with the exception of item ES7801 which is co-extruded steel.

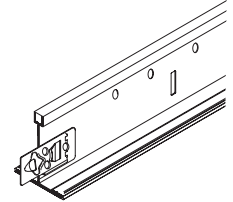
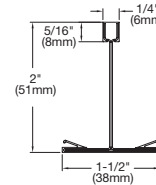
Product Description

Materials

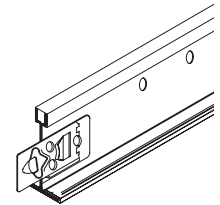
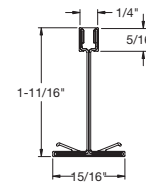
A. General: ASTM C 635 (Intermediate-duty) main beam classification. All surfaces are PVC.

B. Components:

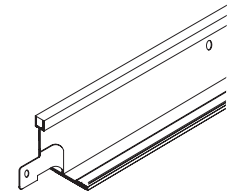
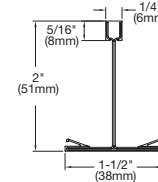
1. **Main Beams:** co-extruded aluminum construction, 2" profile height and 1-1/2" flange
- EA7903 (144", routs 12" OC, Heavy-duty)



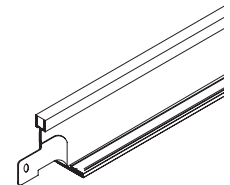
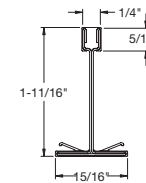
2. **Main Beams:** co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange
- EA7900 (144", routs 12" OC, Intermediate-duty)



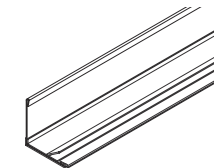
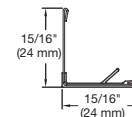
3. **Cross Tees:** co-extruded aluminum construction, profile height 2" and 1-1/2" flange
- EA7947 (48", center rout)
 - EA7927 (24")



4. **Cross Tees:** co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange
- EA7940 (48", center rout)
 - EA7920 (24")

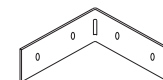


5. **Wall Molding:** co-extruded aluminum
- EA7801 (144", extruded angle molding, nominal 15/16" x 15/16")



6. Accessories:

- CHDC – PVC Hold Down Clip – use with Co-Extruded Aluminum Clean Room Grid.
- XTAC – Cross Tee Adapter Clip – hot dipped galvanized steel, use to attach field cut cross tees to main beams



CLEAN ROOM™

Aluminum Grid Systems

Physical Data

Material

Co-Extruded Aluminum with PVC face – Gasketed
Co-Extruded Steel with PVC face – Gasketed (ES7801)

Surface Finish

PVC

Cross Tee/Main Beam Interface

Co-Extruded Aluminum Clean Room – Flush Fit

End Detail

Main Beam: Staked-on clip
Cross Tee: Integral hook

Main Beam Load Test Data

MAIN BEAMS	LENGTH	WEB HEIGHT	ASTM CLASS	HANGER SPACING (Lbs./LF. Simple Span)**	
				4'	5'
EA7903	144"	2"	Heavy-duty	16.0	8.4
EA7900	144"	1-11/16"	Intermediate-duty	12.0	—

Cross Tee Load Test Data

CROSS TEE	LENGTH	WEB HEIGHT	HANGER SPACING (Lbs./LF. Simple Span)**	
			4'	2'
EA7947	48"	2"	17.66	—
EA7927	24"	2"	60.55	—
EA7940	48"	1-11/16"	15.32	—
EA7920	24"	1-11/16"	—	40.3

Seismic Performance

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
EA7903, EA7900	294.6

CROSS TEES	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
*EA7947, EA7927 EA7940, EA7920	492.4

*Note: Requires use of #6 Phillips self-tapping screw through cross tee end detail.

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.

NOTE: Specify light fixtures designed to install with 1-1/2" face suspension systems when using 1-1/2" face product to allow for fixture maintenance

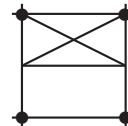
Compatible Light Fixtures:	MANUFACTURER	ITEM #
	Lithonia	CLRM-150 SRT-2x4_F MP4270
	Guth	KLEENSEAL KRT 200
	Clean Air Solutions	CR*-xxx-ESB
	Morlite	CRGHEPA24 Series

Maximum Fixture Weight

A. Main Beam to Main Beam

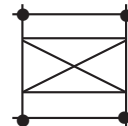
Main Beam 
Hanger Wire (•)

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item EA7903

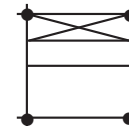


24" x 48"
48" x 48"
48"
100.0 lbs.

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item EA7903

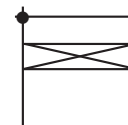


24" x 48"
48" x 48"
48"
70.0 lbs.



12" x 48"
48" x 48"
48"
100.0 lbs.

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item EA7903



12" x 48"
48" x 48"
48"
69.0 lbs.

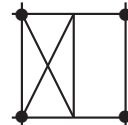
Main beams tested as follows:

EA7903 tested at 16.74 lbs./lin. ft. to 1/360 of 4' span.

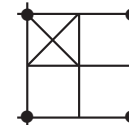
B. Cross Tee to Cross Tee

Main Beams 
Hanger Wire (•)

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item EA7947



24" x 48"
48" x 48"
48"
100.0 lbs.



24" x 24"
48" x 48"
48"
100.0 lbs.

48" cross tees tested as follows:

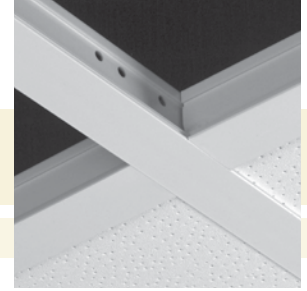
EA7947 tested at 18.4 lbs./lin.ft. to 1/360 of 4' span.

* 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 representative.

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.

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

CLEAN ROOM™ Steel Grid Systems



Available in co-extruded steel, Clean Room Grid system has a 15/16" face to facilitate the use of clean room lay-in panels.

Key Selection Attributes

- Suitable for use in Class 5 or greater without hold down clips (Class 100 clean rooms as defined by ISO Standard 14644-1 (Federal Standard 209E) when used with Clean Room FL, Clean Room VL, Health Zone™ Ultima®, and Health Zone Optima®)
- Seismic Rx® Suspension System saves time and money; ICC-ES approach to installations (ESR-1308)

Co-Extruded Steel

- Lightly textured PVC face, to better match Clean Room VL panels
- Unique, factory-applied gasket for better seal between panel and grid
- Staked on main beam splice for easy connections and module control
- Integral hook cross tee end detail for easy connections and module control
- 10-year limited warranty; 30-year with **HumiGuard® Plus**

Typical Applications

- Hospitals
- Automotive and aerospace
- Data Centers
- High tech manufacturing

Color Selection

- WH - White

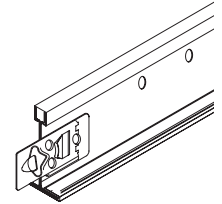
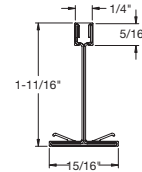
Product Description

Materials

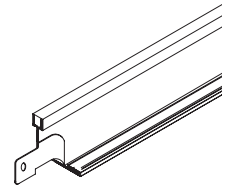
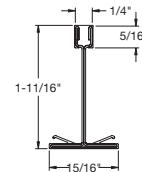
A. General: ASTM C635 (Heavy-duty) main beam classification, co-extruded steel. All surfaces are PVC.

B. Components:

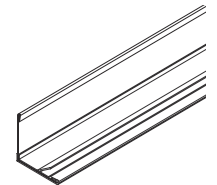
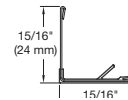
1. **Main Beams:** co-extruded steel construction, 1-11/16" profile height and 15/16" flange
- ES7901 (144", routs 12" OC, Heavy-duty)



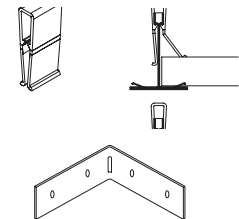
2. **Cross Tees:** co-extruded steel construction, 1-11/16" profile height and 15/16" flange
- ES7940 (48", center rout)
 ES7920 (24")



3. **Wall Molding:** co-extruded steel
- ES7801 (144", extruded angle molding, nominal 15/16" x 15/16")



4. **Accessories:**
- XTAC – Cross Tee Adapter Clip – hot dipped galvanized steel, use to attach field cut cross tees to main beams
- CHDC – PVC Hold Down Clip – use with co-extruded Steel Clean Room Grid



CLEAN ROOM™

Steel Grid Systems

Physical Data

Material

Hot Dipped Galvanized
Co-Extruded Steel with PVC face – Gasketed

Surface Finish

PVC

Cross Tee/Main Beam Interface

Flush Fit

End Detail

Main Beam: Staked-on clip
Cross Tee: Integral hook

Main Beam Load Test Data

MAIN BEAMS	LENGTH	WEB HEIGHT	ASTM CLASS	HANGER SPACING (Lbs./LF. Simple Span)**	
				4'	5'
ES7901	144"	1-11/16"	Heavy-duty	16.0	—

Cross Tee Load Test Data

CROSS TEE	LENGTH	WEB HEIGHT	HANGER SPACING (Lbs./LF. Simple Span)**	
			4'	5'
ES7940	48"	1-11/16"		
ES7920	24"	1-11/16"		

Seismic Performance

MAIN BEAMS	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
ES7901	294.6

CROSS TEES	MINIMUM LBS. TO PULL OUT COMPRESSION/TENSION
*ES7940, ES7920	492.4

*Note: Requires use of #6 Phillips self-tapping screw through cross tee end detail.

ICC Reports

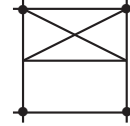
For areas under ICC jurisdiction, see ICC evaluation report number 1308 for allowable values and/or conditions of use concerning the suspension system components listed on this page. The report is subject to reexamination, revisions and possible cancellation.

Maximum Fixture Weight

A. Main Beam to Main Beam

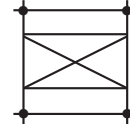
Main Beam ↑
Hanger Wire (•)

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item ES7901

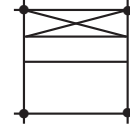


24" x 48"
48" x 48"
48"
100.0 lbs.

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item ES7901

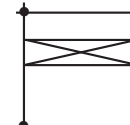


24" x 48"
48" x 48"
48"
70.0 lbs.



12" x 48"
48" x 48"
48"
100.0 lbs.

1. Fixture*
2. Planning Module
3. Hanger Spacing
4. Item ES7901



12" x 48"
48" x 48"
48"
69.0 lbs.

Main beams tested as follows:

ES7901 tested at 16.0 lbs./lin. ft. to 1/360 of 4' span.