Recycled Content: 50% Co-Extruded Aluminum

CLEAN ROOM™

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 Mylar, CLEAN ROOM VL and Health Zone™ Ultima®.

Co-Extruded Aluminum

- Aluminum construction for maximum corrosion resistance and non-magnetic environments
- Lightly textured PVC face, to better match VL Clean Room 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

Product Description

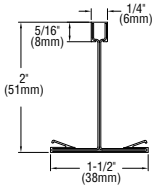
Materials

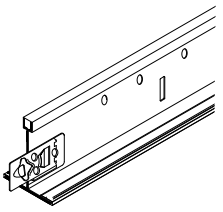
A. General: ASTM C 635 (Intermediate-duty) main beam classification, co-extruded aluminum. All surfaces are PVC.

B. Components:

1. **Main Beams:** co-extruded aluminum construction, 2" profile height and 1-1/2" flange

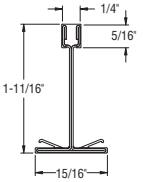
☐ EA7903 (144 , routs 12" OC, Intermediate-duty)

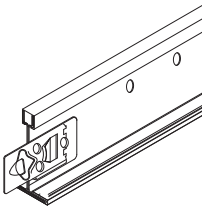




2. **Main Beams:** co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange

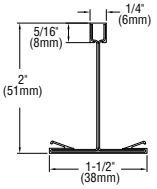
☐ EA7900 (144", routs 12" OC, Intermediate-duty)

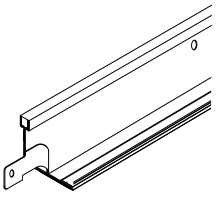




3. **Cross Tees:** co-extruded aluminum construction, profile height 2" and 1-1/2" flange

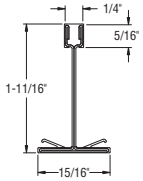
☐ EA7947 (48", center rout)
☐ EA7927 (24")

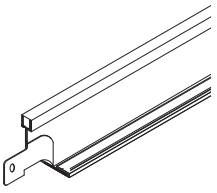




4. **Cross Tees:** co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange

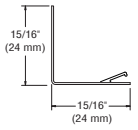
☐ EA7940 (48", center rout)
☐ EA7920 (24")

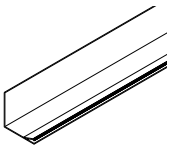




5. **Wall Molding:** co-extruded aluminum

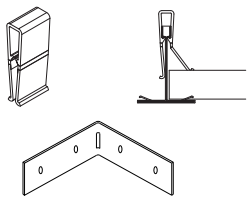
☐ EA7801 (144", extruded angle molding, nominal 15/16" x 15/16")





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



Armstrong®

CLEAN ROOM™

Grid Systems

Physical Data

Material
Co-Extruded Aluminum with PVC face – Gasketed

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"	Intermediate-duty	14.0	8.4
EA7900	144"	1-11/16"	Intermediate-duty	14.0	—

Cross Tee Load Test Data

CROSS TEE	LENGTH	WEB HEIGHT	HANGER SPACING (Lbs./LF. Simple Span)** 4'	2'
EA7947	48"	2"	18.3	
EA7927	24"	2"	48.0	
EA7940	48"	1-11/16"	12.25	
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
Co-Extruded Aluminum Clean Room Grid ICC report is pending.

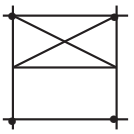
NOTE: Specify light fixtures designed to install with 1-1/2" face suspension systems when using 1-1/2" face product to allow for fixture maintenance

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

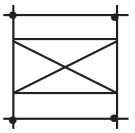
Maximum Fixture Weight

A. Main Beam to Main Beam

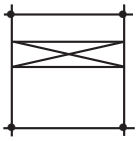
Main Beam ↑
Hanger Wire (•)



1. Fixture*	24" x 48"
2. Planning Module	48" x 48"
3. Hanger Spacing	48"
4. Item EA7903	100.0 lbs.



1. Fixture*	24" x 48"	12" x 48"
2. Planning Module	48" x 48"	48" x 48"
3. Hanger Spacing	48"	48"
4. Item EA7903	70.0 lbs.	100.0 lbs.

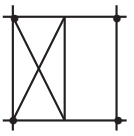


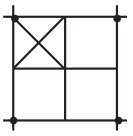
1. Fixture*	12" x 48"
2. Planning Module	48" x 48"
3. Hanger Spacing	48"
4. Item EA7903	69.0 lbs.

Main beams tested as follows:
7907 tested at 17.9 lbs./lin. ft. to 1/360 of 4' span.
EA7903 tested at 15.9 lbs./lin. ft. to 1/360 of 4' span.

B. Cross Tee to Cross Tee

Main Beams ↑
Hanger Wire (•)





1. Fixture*	24" x 48"	24" x 24"
2. Planning Module	48" x 48"	48" x 48"
3. Hanger Spacing	48"	48"
4. Item EA7947	100.0 lbs.	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.