

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 and CLEAN ROOM VL

## 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

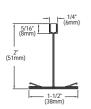
# **Product Description**

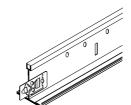
## Materials

A. General:

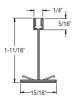
ASTM C 635 (Intermediate-duty) main beam classification, co-extruded aluminum. All surfaces are PVC.

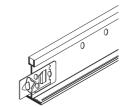
- B. Components:
- 1. Main Beams: co-extruded aluminum construction, 2" profile height and 1-1/2" flange
- ☐ EA7903 (144", routs 12" OC, Intermediate-duty)



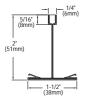


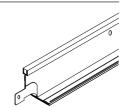
- Main Beams: co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange
- ☐ EA7900 (144", routs 12" OC, Intermediate-duty)





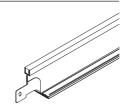
- Cross Tees: co-extruded aluminum construction, profile height 2" and 1-1/2" flange
- □ EA7947 (48", center rout)□ EA7927 (24")





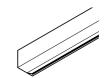
- Cross Tees: co-extruded aluminum construction, 1-11/16" profile height and 15/16" flange
- ☐ EA7940 (48", center rout) ☐ EA7920 (24")





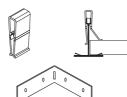
- 5. Wall Molding: co-extruded aluminum
- ☐ EA7801 (144", extruded angle molding, nominal 15/16" x 15/16")





- 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**

**Grid Systems** 



# **Physical Data**

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		WEB	ASTM		R SPACING imple Span)**
<b>BEAMS</b>	LENGTH	<b>HEIGHT</b>	CLASS	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		WEB	(Lbs./LF. Simple Span)**	
TEE	LENGTH	<b>HEIGHT</b>	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

<sup>\*</sup>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

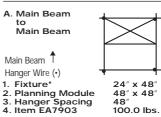
Compatible	MANUFACTURER	ITEM #

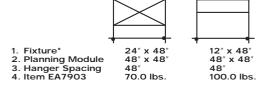
**Light Fixtures:** Lithonia CLRM-150 SRT-2x4 F MP4270 KLEENSEAL KRT 200 Guth CR\*-xxx-ESB Clean Air Solutions CRGHEPA24 Series Morlite

# **Color Selection**

☐ WH - White

# Maximum Fixture Weight







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

12" x 48" 48" x 48" 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.



Main beams 1 Hanger Wire (•) Fixture\*

B. Cross Tee





100.0 lbs.

2. Planning Module 3. Hanger Spacing 4.ltem EA7947

48" 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.