

# CLEAN ROOM™ Aluminum

## 15/16" and 1-1/2" Exposed Tee System



Calculate LEED contribution at [armstrongceilings.com/greengenie](http://armstrongceilings.com/greengenie)

LOCATION DEPENDENT



### KEY SELECTION ATTRIBUTES

- Suitable for use in Class 5 (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®)
- Aluminum construction for maximum corrosion resistance and non-magnetic environments.
- Clear non-ferrous hold down clip to ensure a good seal available (not required for clean room performance)
- Unique, factory-applied gaskets for better seal between panel and suspension system
- 10-year limited warranty; 30-year limited warranty with HumiGuard® Plus products

### TYPICAL APPLICATIONS

- MRI suites (co-extruded aluminum only)
- Hospitals
- Food processing facilities
- High-tech manufacturing
- Pharmaceutical facilities

### VISUAL SELECTION

| Item No.   | Face Profile | Description   | Rout Spacing | Dimensions (Inches)  | Hanger Spacing* |       |       |
|--|--------------|---|--------------|----------------------|-----------------|-------|-------|
|  |              |   |              |                      | 2 Ft.           | 4 Ft. | 5 Ft. |
| <b>15/16" Clean Room Co-Extruded Aluminum (Gasketed)</b> |              |   |              |                      |                 |       |       |
| <input type="checkbox"/> EA7900                          | 15/16"       | 12' ID Main Beam  | 12" O.C.     | 144 x 15/16 x 2"     | –               | 12.25 | –     |
| <input type="checkbox"/> EA7940                          | 15/16"       | 4' Cross Tee  | 24" O.C.     | 48 x 15/16 x 2"      | –               | 15.32 | –     |
| <input type="checkbox"/> EA7920                          | 15/16"       | 2' Cross Tee  | –            | 24 x 15/16 x 2"      | 66.62           | –     | –     |
|  | 15/16"       | <b>Other Sizes</b> Cross tees L: 24" - 144" / Rout spacing 6" from ends, 12" thereafter |              |                      |                 |       |       |
| <input type="checkbox"/> EA7812                          |              | 12' Hemmed Angle Molding  |              | 144 x 15/16 x 15/16" |                 |       |       |
| <b>1-1/2" Clean Room Co-Extruded Aluminum (Gasketed)</b> |              |   |              |                      |                 |       |       |
| <input type="checkbox"/> EA7903                          | 1-1/2"       | 12' HD Main Beam  | 12" O.C.     | 144 x 1-1/2 x 2"     | –               | 16.7  | 8.4   |
| <input type="checkbox"/> EA7947                          | 1-1/2"       | 4' Cross Tee  | 24" O.C.     | 48 x 1-1/2 x 2"      | –               | 17.66 | –     |
| <input type="checkbox"/> EA7927                          | 1-1/2"       | 2' Cross Tee  | –            | 24 x 1-1/2 x 2"      | 60.55           | –     | –     |
| <input type="checkbox"/> EA7813                          |              | 12' Hemmed Angle Molding  |              | 144 x 15/16 x 15/16" |                 |       |       |

\* Simple Span

### PERFORMANCE

| Fire Guard™ | Seismic Category | Dots represent high level of performance. |         |
|-------------|------------------|---|---------|
|             |                  | Fire                                      | Seismic |
| –           | –                | –   | –       |
| –           | –                | –   | –       |
| –           | –                | –   | –       |
| –           | –                | –   | –       |
| –           | •                | –   | –       |
| –           | –                | –   | –       |
| –           | –                | –   | –       |

### PACKAGING

| Pcs./ Ctn. | Lin. Ft./ Ctn. |
|------------|----------------|
| 20         | 240            |
| 60         | 240            |
| 60         | 120            |
| Varies     | Varies         |
| 30         | 360            |
| 12         | 144            |
| 36         | 144            |
| 36         | 72             |
| 30         | 360            |

### ACCESSORIES

**BERC2 – 2" Beam End Retaining Clip** – Allows you to create a code compliant Seismic D, E, F ceiling installation while eliminating the need to use 2" wall molding or spreader bars.

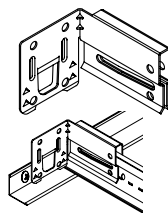
ALBERC2 (aluminum) – 200 pcs

BERC2 (Steel) – 200 pcs

FZBERC2 (Steel) – 50 pcs

ALBERC2 (Aluminum) – 200 pcs

FZALBERC2 (Aluminum) – 50 pcs



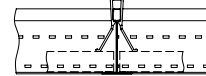
**CHDC – Clear Hold Down Clip** –

Attaches to top bulb of the suspension system to hold 1/16" to 5/8" lay-in panel in place; helps to prevent ceiling panel fluttering at entryways.

CHDC – 50 pcs

FZCHDC – 50 pcs

Clean Room (CHDC)  
Hold Down Clip



# CLEAN ROOM™ Aluminum

## 15/16" and 1-1/2" Exposed Tee System

### MAXIMUM FIXTURE WEIGHT

| Item No.  | Configuration |   | Fixture*  |           | Planning Module |           | Hanger Spacing |     | Maximum Weight |            |  |
|---|---------------|---|-----------|-----------|-----------------|-----------|----------------|-----|----------------|------------|--|
|   | A             | B | A         | B         | A               | B         | A              | B   | A              | B          |  |
| <b>Main Beam to Main Beam</b>   |               |   |           |           |                 |           |                |     |                |            |  |
| <input type="checkbox"/> EA7903   |               |   | 24" x 48" |           | 48" x 48"       |           | 48"            |     | 100.0 lbs.     |            |  |
|   |               |   | 24" x 48" | 12" x 48" | 48" x 48"       | 48" x 48" | 48"            | 48" | 70.0 lbs.      | 100.0 lbs. |  |
|   |               |   | 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</b>   |               |   |           |           |                 |           |                |     |                |            |  |
| <input type="checkbox"/> EA7947   |               |   | 24" x 48" | 24" x 24" | 48" x 48"       | 48" x 48" | 48"            | 48" | 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. |               |   |           |           |                 |           |                |     |                |            |  |

Main Beam ↑ Hanger Wire (•)

\* 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.

### COLOR SELECTION



White  
(WH)

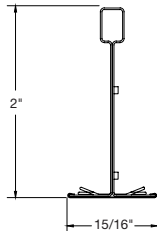
### LIGHT FIXTURES

NOTE: Specify light fixtures designed to install with 2" web height suspension systems. Compatible light fixtures:

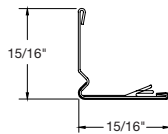
| Manufacturer | Item #                    |
|--------------|---------------------------|
| Lithonia     | CLRM-150 SRT-2x4_F MP4270 |
| Guth         | KLEENSEAL KRT 200         |
| Morlite      | CRGHEPA24 Series          |

### DETAILS

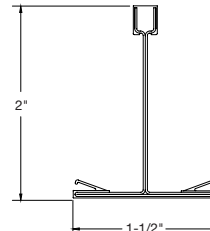
15/16" Aluminum Main Beam and Cross Tee



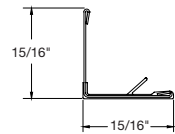
Clean Room Angle Molding for use with 15/16" Clean Room Suspension System



1-1/2" Aluminum Main Beam and Cross Tee



Clean Room Angle Molding for use with 1-1/2" Clean Room Suspension System



### SEISMIC PERFORMANCE

**Main Beams**  
EA7903, EA7900

**Minimum Lbs. To Pull Out** Compression/Tension  
294.6

**Cross Tees**  
\*EA7947, EA7927, EA7940, EA7920

**Minimum Lbs. To Pull Out** Compression/Tension  
492.4

### 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.

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

### PHYSICAL DATA

**Material**  
1-1/2" Co-Extruded Aluminum with PVC face – Gasketed

15/16" Co-Extruded Aluminum with aluminum-capped face – Gasketed

**Surface Finish**  
Textured PVC for 1-1/2"  
Baked polyester for 15/16"  
White aluminum – Capped face

Manufactured and tested in accordance with ASTM C635

**Cross Tee/Main Beam Interface**  
Co-Extruded Aluminum Clean Room – Flush Fit

**End Detail for 1-1/2"**  
Main Beam: Staked-on clip  
Cross Tee: Integral hook

**End Detail for 15/16"**  
Main Beam: Integral  
Cross Tee: Staked-on clip