

DC FLEXZONE™ – SUPRAFINE® NEW

9/16" Exposed Tee System



Recycled Content:
Mains 54%
Border Mains 61%
Cross Tees 30%

Key Selection Attributes

- Main beams only with integrated electrical conductors capable of distributing power to electrical devices such as light fixtures and sensors
- UL Listed and EMerge Alliance® Registered for use in 24VDC power distribution systems
- Single DC circuit available on top bulb only
- Integrates with standard cross tees, moldings, and accessories for SupraFine and SupraFine HRC suspension systems
- Installed acoustically as part of the overall ceiling system, with electrical connections to the grid made subsequently by qualified electricians
- High recycled content steel for sustainable design as part of the SupraFine HRC Grid family
- Exposed Tee design combines superior durability and stability with a narrow grid face for a refined appearance
- Seismic performance with heavy-duty load rating meets the most stringent codes

Typical Applications

- Offices
- Education
- Hospitality
- Retail
- Healthcare

Color Selection

White (WH)



Visual Selection

Performance Selection

Grid Face	Item No.	Description	Dimensions	Hanger Spacing*		Seismic Category	Total Recycled Content	Total Post-consumer Content	PCS/Ctn.	LFT/Ctn.
				4 Ft.	5 Ft.					
DC Main Beams										
9/16"	DC750106	6' HD Main Beam, Routs 12" OC, First Rout 6" from end	72" x 9/16" x 1-11/16"	16.83	8.69	•	54%	45%	10	60
9/16"	DC750108	8' HD Main Beam, Routs 12" OC, First Rout 6" from end	96" x 9/16" x 1-11/16"	16.83	8.69	•	54%	45%	10	80
9/16"	DC750110	10' HD Main Beam, Routs 12" OC, First Rout 6" from end	120" x 9/16" x 1-11/16"	16.83	8.69	•	54%	45%	10	100
9/16"	DC750112	12' HD Main Beam, Routs 12" OC, First Rout 6" from end	144" x 9/16" x 1-11/16"	16.83	8.69	•	54%	45%	10	120
Non-powered Border Mains										
9/16"	750106	6' HD Border Main Beam, Routs 12" OC, First Rout 6" from end	72" x 9/16" x 1-11/16"	16.83	8.69	•	61%	50%	20	120
Accessories										
	DCINS	Insulator Cap	2"						100	N/A
	BACG90A	Brace Attachment Clip							250	N/A
	UPC	Partition Clip							200	N/A

Physical Data

Material

Hot dipped galvanized steel made from USA produced recycled steel. Plastic insulated copper bus conductors. Note: Item 750106 Border Main steel only/ no conductors.

Surface Finish

Baked polyester paint or anodized on steel. Tin finish on conductors.

Face Dimension

9/16"

Profile

Exposed tee

Cross Tee/Main Beam Interface

XL - Override

End Detail

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

Duty Classification

Heavy-duty

ASTM C635

Heavy-duty main beam classification, commercial-quality hot dipped galvanized steel. Exposed surface chemically cleaned, galvanized capping prefinished in baked polyester or anodized finish.

Seismic Performance

Main beams – DC7501xx – all lengths
 Minimum Lbs. to pull out compression/tension – 361.3

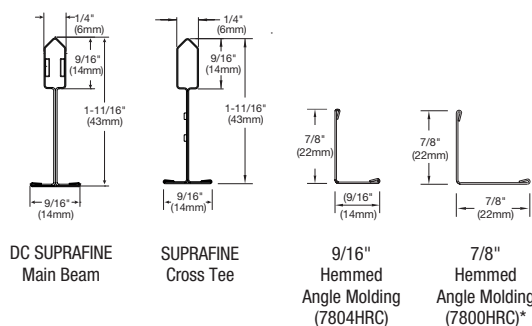
Cross tee – XL7541HRC, XL7520HRC

Minimum Lbs. to pull out compression/tension – 352.0
 See SupraFine XL® HRC data page for detail on cross tees.

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 re-examination, revisions, and possible cancellation.

Details and Grid Intersection



* For seismic zones, use 7800HRC

Installation Considerations:

- **IMPORTANT:** Rout holes on DC SupraFine main beams are 6" from each end and 12" on center, which is different than standard (non-DC) SupraFine mains.
- DC main beams shall not be field cut.
- Non-powered Border Mains (item 750106) shall be used and field cut at perimeters.
- Four different lengths of DC main beams are available to accommodate design.
- Reflected ceiling plans should indicate orientation, location, and length of DC powered mains and field-cut border mains. Installers should follow the RCP.
- Do not use predesignated factory power key slots for hanger wire.
- Use Insulator Caps (item DCINS) over any clips that touch the integrated conductors.
- Do not screw through the bulb of a DC Main.
- Use BAC (Item BACG90A) Clips for any screw attachments for seismic applications and bracing.
- Use Partition Clips (UPC) screwed to the web of the grid for any attachments to the underside of the grid.



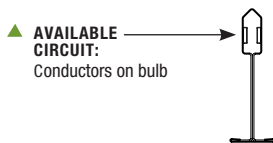
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Electrical Data

- After DC main beams have been installed as part of an acoustical ceiling suspension system, qualified electricians make all electrical connections to grid mains.
- Each DC main is designed to mate with EMerge Alliance® Registered power distribution cable assemblies at designated locations along the length of each main.
- Each DC main is considered a Class 2 circuit when electrically connected.
- DC mains are intended to deliver 24 Volt Direct Current (DC) power to one or more electrical devices equipped with EMerge compliant connectors that are flexibly connected to grid.

Electrical Capacity: 24 Volt DC, 4.1 Amps, 100 Watts on each Class 2 circuit
Electrical Code Compliance: NEC Class 2, UL 2577 Listed, EMerge Alliance® Registered
Wiring: 12 AWG copper solid flat conductor, tin finish
WARNING: DC MAIN BEAMS ARE *NOT* INTENDED FOR USE WITH AC LINE VOLTAGE.

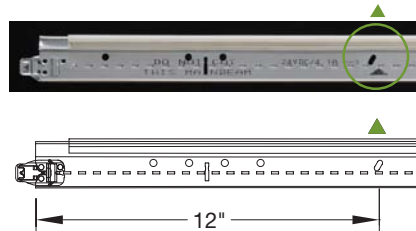


DC Suprafine Mains contain electrical conductors along the top "bulb" of the grid bus bar, providing capability for one Class 2 circuit on each main.

Important – Electrical Connections

24 Volt DC Class 2 power shall be connected in a predesignated factory power key slot on the DC Suprafine main beam. The one available circuit on DC Suprafine mains is located on the top of the "bulb" 12" from each end.*

*NOTE: Power slots are available on one end only on 6' DC mains.



DC FlexZone Suprafine shown with TE Connectivity Low Voltage DC Power Feed Cable Assembly.

DC FlexZone Ceiling System Partners

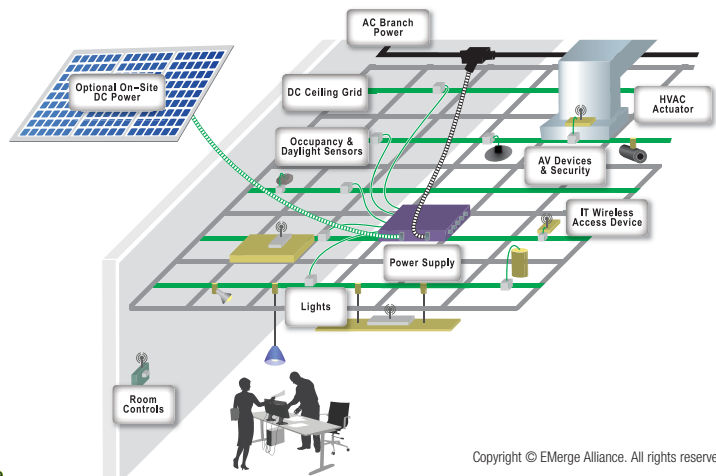
DC FlexZone Ceiling Grid Systems are designed for use with compatible power, infrastructure, lighting and controls products available from DC FlexZone Compatible Partners.

These companies are also members of the EMerge Alliance and have a variety of EMerge Alliance® Registered products that can be specified as part of the power distribution, lighting, and electrical systems.

Please visit armstrong.com/dcflexzone for a list of our partners and links to their compatible products.

CAD drawings and application guides are also available online showing various configurations of typical ceiling and electrical layouts.

Please visit emergealliance.org for more information on EMerge Alliance Registered products and DC power distribution standards for buildings.



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Creating Sustainable Ceiling Systems



Maximize your sustainable ceiling system by combining DC FlexZone – Suprafine main beams with Suprafine HRC cross tees and molding, as well as the following sustainable ceiling panels:

ULTIMA® Ceiling-2-Ceiling™	Dimensions	CIRRUS® Ceiling-2-Ceiling	Dimensions	DUNE™ Ceiling-2-Ceiling	Dimensions	TIERRA™	Dimensions
1912HRC 1915HRC	2' x 2' x 3/4" 2' x 4' x 3/4"	589HRC 539HRC	2' x 2' x 3/4" 2' x 4' x 3/4"	1775HRC 1777HRC	2' x 2' x 5/8" 2' x 4' x 5/8"	3462	2' x 2' x 5/8"
	Suprafine 9/16"		Suprafine 9/16"		Suprafine 9/16"		Suprafine 9/16"