



of the EMerge Alliance, several of whom are called out here as "DC FlexZone Compatible Partners." These EMerge Alliance Registered components should

be specified as part of the power distribution, lighting, and electrical systems.

POWER Power Supplies ▶ **AC Branch Power** ▶ **DC** Renewable Power ▶ (Optional)

Room Level Power Distribution Standard

Controls -

Infrastructure

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Devices

System / Component Relationships

EMerge Alliance Registered® & Related Product Categories (for Building Applications of EMerge 24VDC Occupied Space Standard)	Specified by Elect. Engineer / Lighting Designer (Div 16/26)	Purchased by Electrical Contractor	Installed by Electrical Contractor	Specified by Architect / Interior Designer (Div 9)	Purchased by Acoustical Contractor	Installed by Acoustical Contractor
9/16" Ceiling Suspension System (Armstrong DC FlexZone™ – Suprafine Exposed Tee or Silhouette 1/4" Slot Reveal)				•	•	•
Acoustical Ceiling Tile (i.e. Armstrong Ultima® 1912HRC)				•	•	•
AC-DC Power Supplies, DC-DC Power Supplies	•	•	•			
Power Feed Cables	•	•	•			
24VDC Lighting Fixtures LED or Fluorescent with Connectors and / or Load Device Cable Assemblies	•	•	•			
24VDC Ballasts or Drivers for Lighting Fixtures	•	•	•			
Controls (Wireless or Wired)	•	•	•			

Power

INFRASTRUCTURE

Structured Cabling & Interconnects

Powered Bus Bar ► Components

(DC FlexZone Suspension System) **Device Cabling** ▶

& Interconnects

PERIPHERALS

Lights, Sensors, etc.

CONTROLS

DC FLEXZONE Compatible Partners*

POWER

Systems

Nextek Power

ROAL Electronics

INFRASTRUCTURE >

TE Connectivity

PERIPHERALS

Acuity Brands Cooper Lighting Focal Point

JLC tech

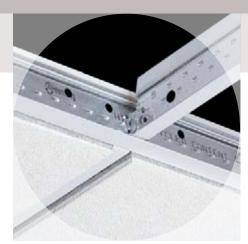
Osram Sylvania Philips Day-Brite

Philips Lightolier

CONTROLS)

Acuity Brands Crestron Electronics Encelium

DC FLEXZONE™ Suspension System Intersections



DC FlexZone – Suprafine® Main and Cross Tee Intersection



DC FlexZone – Silhouette® Main and Cross Tee Intersection

This brochure provides the acoustical drawings, details, and specification information for DC FlexZone Suspension Systems.

In this Brochure:

- 3-4 DC FlexZone Suprafine Suspension System Overview
- 5-8 Suprafine Sample Layouts

10' x 14' DC FlexZone Cloud

2' x 2' Open Office

2' x 2' Large Room 2' x 2' Private Office

9-10 DC FlexZone - Silhouette Suspension

System Overview

11-14 Silhouette Sample Layouts

8' x 12' DC FlexZone Cloud

2' x 2' Open Office 2' x 2' Large Room

2' x 2' Private Office

^{*} See DC FlexZone Electrical Design Guide (CS-4325) for information on power distribution system design and sample layouts referencing the types of electrical products referenced above.

DC FLEXZONE™- SUPRAFINE®

Suspension System Overview



DC FlexZone—Suprafine offers the same durability and stability of standard Suprafine with the added benefit of a Class 2 electrical circuit available on the bulb. DC FlexZone—Suprafine mains come in 4 different lengths, are made from high recycled content steel, and meet D, E, F Seismic Design requirements.

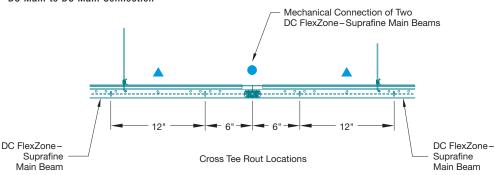
These main beams integrate with standard cross tees, moldings and accessories for Suprafine Suspension Systems and are installed acoustically as part of the overall ceiling system. Electrical connections to the conductors on the DC mains are made subsequently by qualified electricians.

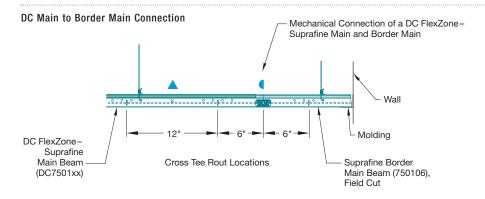
Important Design and Installation Considerations:

- Do not cut the DC Main Beams, use Border Mains at the perimeters.
- Reflected ceiling plans should indicate orientation, location, and length of DC powered mains and field-cut border mains.
- 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.

How to Show DC Mains and Border Mains on the RCP

DC Main to DC Main Connection

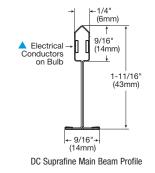




Drawing Key

- Power Key Slot on the Bulb for Electrical Connection to the Grid
- End of DC FlexZone Main Beam Connected to Border Main
- Mechanical Connection of Two DC FlexZone Main Beams

NOTE: Electrical conductors on the DC mains are not connected.





Do not use power key slots for hanger wire.

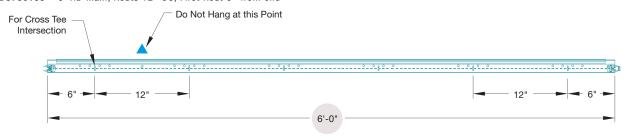
DC FLEXZONE™ - SUPRAFINE®

Suspension System Overview

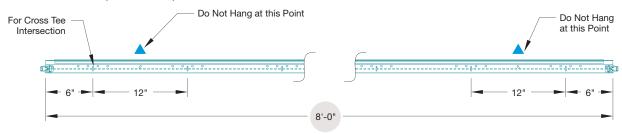


Powered Mains

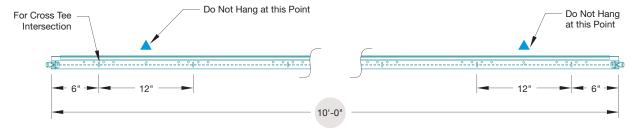
DC750106 - 6' HD Main, Routs 12" OC, First Rout 6" from end



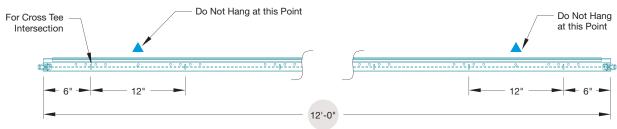
DC750108 - 8' HD Main, Routs 12" OC, First Rout 6" from end



DC750110 - 10' HD Main, Routs 12" OC, First Rout 6" from end

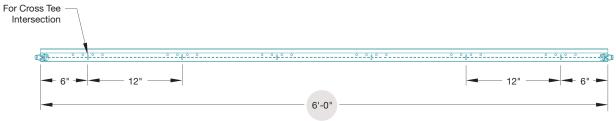


DC750112 - 12' HD Main, Routs 12" OC, First Rout 6" from end



Non-Powered Border Main

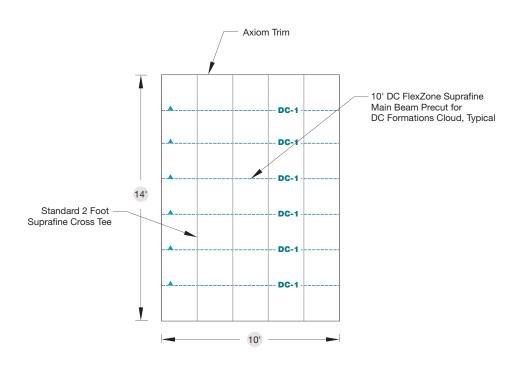
 $\textbf{750106} - \textbf{6} \text{'} \ \textbf{HD Main, Routs 12} \text{''} \ \textbf{OC, First Rout 6} \text{''} \ \textbf{from end (Steel only, no conductors)}$



DC FLEXZONE[™] – SUPRAFINE® Suspension System

10' x 14' DC FlexZone Formations Cloud*





* See Formations™ with DC FlexZone Suspension Systems brochure (CS4618) for more information on layouts, cloud sizes, trim options and compatible lighting and control options.

48 different pre-engineered DC FlexZone clouds are available through the normal Formations ordering process



Formations Squares and Rectangles with Ultima® Tegular Panels and Axiom® for Formations Vector® 4" and 6" Trim

KEY SELECTION ATTRIBUTES

- Pre-engineered acoustical cloud systems featuring DC FlexZone suspension system, Axiom[®] extruded aluminum trim, and compatible DC lighting and control system.
- Ideal for open plenum spaces or acoustically challenged space. Clouds reduce acoustical reverberation time and noise levels while increasing speech intelligibility.
- Formations cloud kits include aircraft cables and StrongBack™ suspension system for reduced suspension visibility and improved floating visual.

TYPICAL APPLICATIONS

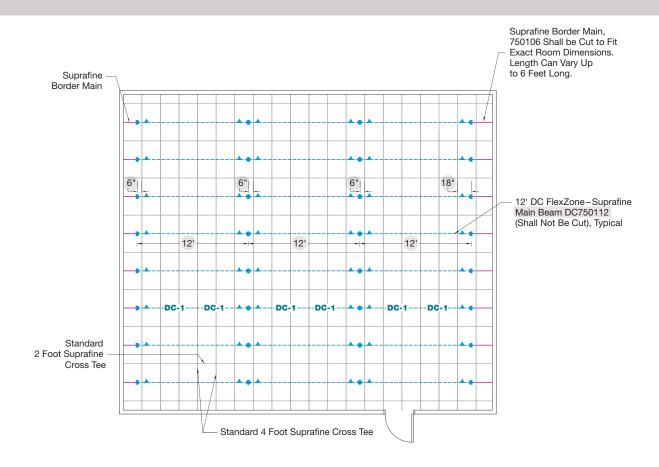
- · Sustainable buildings of all types
- Offices
- Retail
- Lobbies
- · Open plenum spaces

EASY TO CREATE CUSTOM-LOOK CLOUDS!

- 1) Select your cloud size
- 2) Select your ceiling panel and suspension system
- 3) Select your Axiom trim
- 4) Select your cloud kit
- 5) Order your ceiling panels and DC FlexZone compatible lighting and controls

DC FLEXZONE[™] – SUPRAFINE® Suspension System

Sample 2' x 2' Open Office Layout



Drawing Key

■ DC-1 ■ DC-1 ■ DC FlexZone — Suprafine Main Beam (1 circuit available)
■ Border Main Beam
■ Cross Tee
■ Electrical Power-in Location (Bulb) on DC FlexZone Main
■ End of DC FlexZone Main Beam Connected to Border Main
■ Mechanical Connection of Two DC FlexZone Main Beams

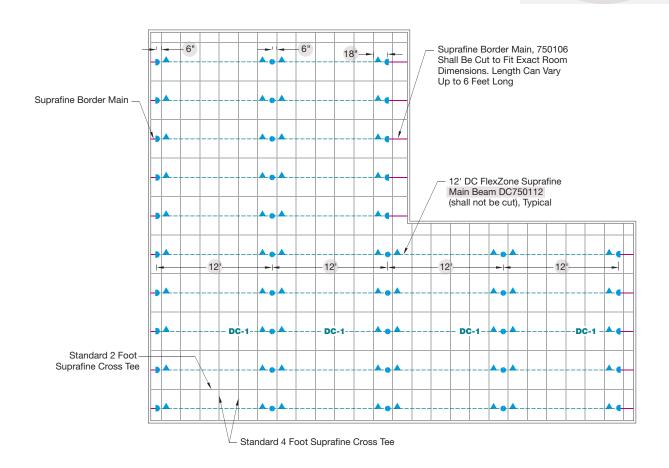
New DC FlexZone – Suprafine Suspension System Components			
DC FlexZone Main Beams	Quantity (Pieces)	Quantity (Cartons)	
DC750112	24	3	
Non-Powered Border Mains	Quantity (Pieces)	Quantity (Cartons)	
750106	8	1	

Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

$DC \ FLEXZONE^{\tiny{\mathsf{TM}}} - \ SUPRAFINE^{\tiny{\texttt{\tiny{\$}}}} \ Suspension \ System$

Sample 2' x 2' Large Room Layout





New DC FlexZone – Suprafine Suspension System Components DC FlexZone Main Beams Quantity (Pieces) Quantity (Cartons) DC750112 30 3 Non-Powered Border Mains Quantity (Pieces) Quantity (Cartons) 750106 10 1

DC FlexZone – Suprafine Main Beam
(1 circuit available)

Border Main Beam
Cross Tee

Electrical Power-in Location
(Bulb) on DC FlexZone Main

End of DC FlexZone Main Beam
Connected to Border Main

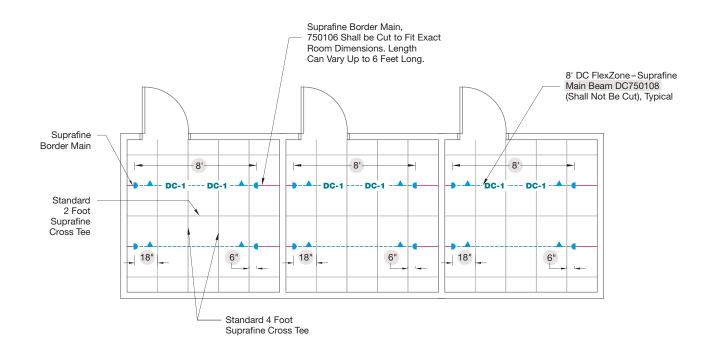
Mechanical Connection of Two
DC FlexZone Main Beams

Drawing Key

Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

DC FLEXZONE[™] – SUPRAFINE® Suspension System

Sample 2' x 2' Private Office Layout



Drawing Key

■ DC-1 — DC-1 — DC FlexZone — Suprafine Main Beam (1 circuit available)

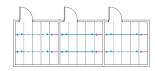
■ Border Main Beam

Cross Tee

■ Electrical Power-in Location (Bulb) on DC FlexZone Main Beam Connected to Border Main

■ Mechanical Connection of Two DC FlexZone Main Beams

New DC FlexZone – Suprafine Suspension System Components			
DC FlexZone Main Beams	Quantity (Pieces)	Quantity (Cartons)	
DC750108	6	1	
Non-Powered Border Mains	Quantity (Pieces)	Quantity (Cartons)	
750106	6	1	



Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

DC FLEXZONE™- SILHOUETTE®

Suspension System Overview



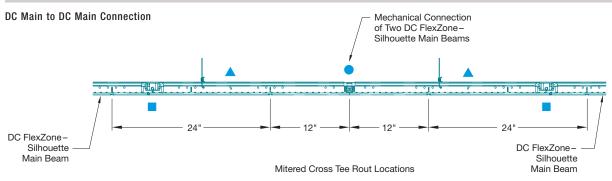
DC FlexZone – Silhouette provides the same clean, crisp visual as standard Silhouette but with the added benefit of two Class 2 circuits – one on the bulb and one in the slot reveal. DC FlexZone – Silhouette mains come in 4 different lengths, are made from high recycled content steel, and meet D, E, F Seismic Design requirements.

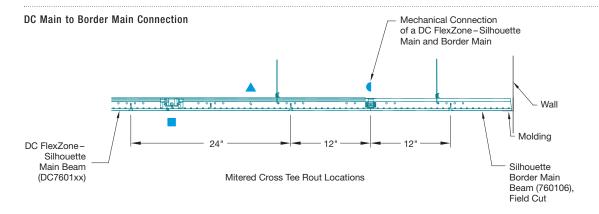
These main beams integrate with standard cross tees, moldings and accessories for Silhouette 1/4" Reveal Suspension Systems and are installed acoustically as part of the overall ceiling system. Electrical connections to the conductors on the DC mains are made subsequently by qualified electricians.

Important Design and Installation Considerations:

- Do not cut the DC Main Beams, use Border Mains at the perimeters.
- Reflected ceiling plans should indicate orientation, location, and length of DC powered mains and field-cut border mains.

How to Show DC Mains and Border Mains on the RCP

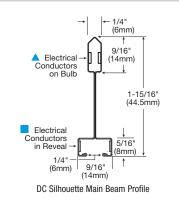


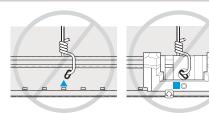


Drawing Key

- Power Key Slot on the Bulb for Electrical Connection to the Grid
- Power Key Slot for Electrical Connection to Bottom Reveal Area of Grid
- End of DC FlexZone Main Beam Connected to Border Main
- Mechanical Connection of Two DC FlexZone Main Beams

NOTE: Electrical conductors on the DC mains are not connected.





Do not use power key slots for hanger wire.

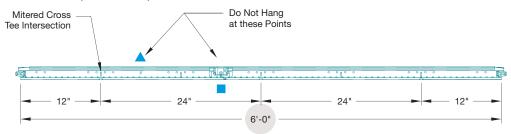
DC FLEXZONE™- SILHOUETTE®

Suspension System Overview

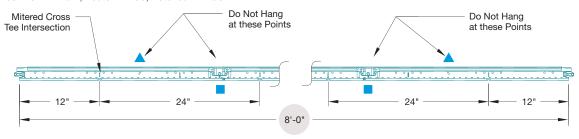


Powered Mains

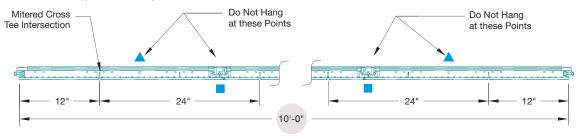
DC760106 - 6' HD Main, Routs 12" OC, Notched 24" OC



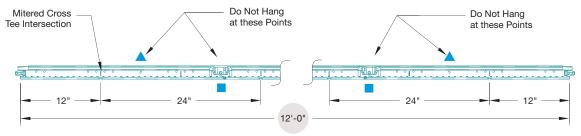
DC760108 - 8' HD Main, Routs 12" OC, Notched 24" OC



DC760110 - 10' HD Main, Routs 12" OC, Notched 24" OC

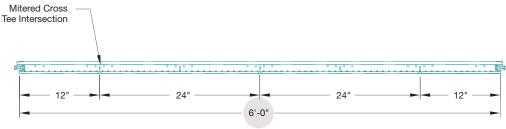


DC760112 - 12' HD Main, Routs 12" OC, Notched 24" OC



Non-Powered Border Main

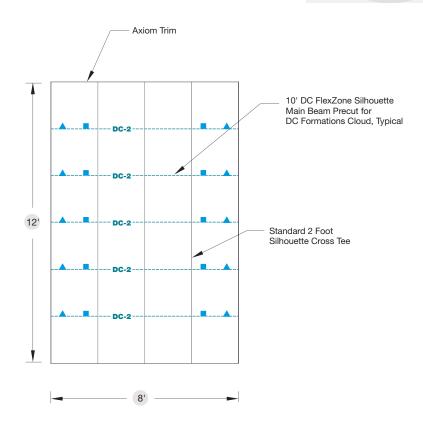
$760106-6\ensuremath{^{\circ}}$ HD Main, Routs 12" OC, Notched 24" OC (Steel only, no conductors)



DC FLEXZONE™ – SILHOUETTE® Suspension System

8' x 12' DC FlexZone Formations Cloud*





* See Formations™ with DC FlexZone Suspension Systems brochure (CS4618) for more information on layouts, cloud sizes, trim options and compatible lighting and control options.

48 different pre-engineered DC FlexZone clouds are available through the normal Formations ordering process



KEY SELECTION ATTRIBUTES

- Pre-engineered acoustical cloud systems featuring DC FlexZone suspension system, Axiom[®] extruded aluminum trim, and compatible DC lighting and control system.
- Ideal for open plenum spaces or acoustically challenged space. Clouds reduce acoustical reverberation time and noise levels while increasing speech intelligibility.
- Formations cloud kits include aircraft cables and StrongBack™ suspension system for reduced suspension visibility and improved floating visual.

TYPICAL APPLICATIONS

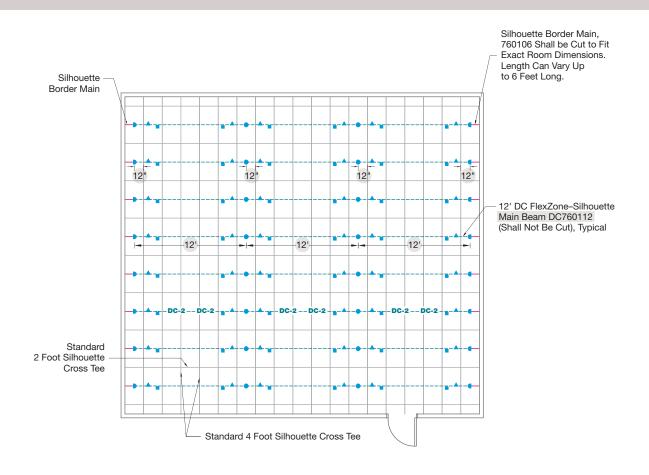
- · Sustainable buildings of all types
- Offices
- Retail
- Lobbies
- · Open plenum spaces

EASY TO CREATE CUSTOM-LOOK CLOUDS!

- 1) Select your cloud size
- 2) Select your ceiling panel and suspension system
- 3) Select your Axiom trim
- 4) Select your cloud kit
- 5) Order your ceiling panels and DC FlexZone compatible lighting and controls

$DC \ FLEXZONE^{\mathsf{TM}} - \ SILHOUETTE^{\texttt{®}} \ Suspension \ System$

Sample 2' x 2' Open Office Layout



Drawing Key

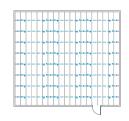
——DC-2———DC-2—

DC FlexZone–Silhouette Main Beam (2 separate circuits available)

Border Main Beam

Cross Tee

- ▲ Electrical Power-in Location (Bulb) on DC FlexZone Main
- Electrical Power-in Location (Reveal) on DC FlexZone–Silhouette Main
- End of DC FlexZone Main Beam Connected to Border Main
- Mechanical Connection of Two DC FlexZone Main Beams



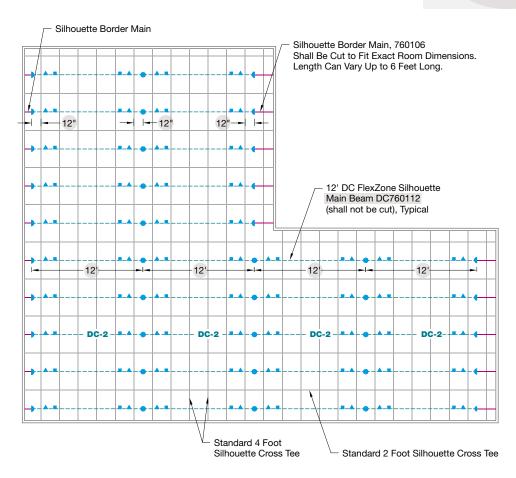
New DC FlexZone – Silhouette Suspension System Components			
DC FlexZone Main Beams	Quantity (Pieces)	Quantity (Cartons)	
DC760112	24	3	
Non-Powered Border Mains	Quantity (Pieces)	Quantity (Cartons)	
760106	8	1	

Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

DC FLEXZONE™— SILHOUETTE® Suspension System

Sample 2' x 2' Large Room Layout





New DC FlexZone – Silhouette Suspension System Components DC FlexZone Main Beams Quantity (Pieces) Quantity (Cartons) DC FlexZone Main Beams Quantity (Pieces) Quantity (Cartons)

DC760112	30	3
Non-Powered Border Mains	Quantity (Pieces)	Quantity (Cartons)
760106	10	1

DC FlexZone—Silhouette Main Beam
(2 separate circuits available)

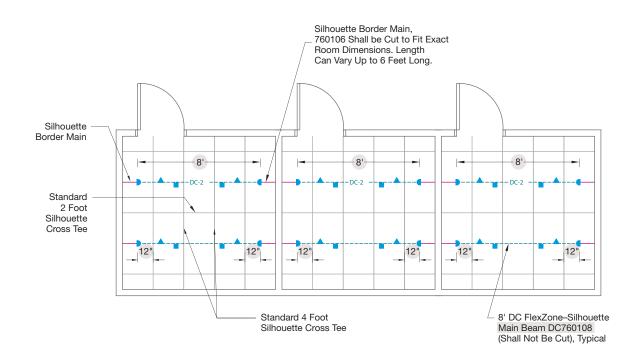
Border Main Beam
Cross Tee
Electrical Power-in Location
(Bulb) on DC FlexZone Main
Electrical Power-in Location (Reveal)
on DC FlexZone-Silhouette Main
End of DC FlexZone Main Beam
Connected to Border Main
Mechanical Connection of Two
DC FlexZone Main Beams

Drawing Key

Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

$DC\ FLEXZONE^{\tiny\mathsf{TM}}-\ SILHOUETTE^{\tiny\mathsf{®}}\ Suspension\ System$

Sample 2' x 2' Private Office Layout



Drawing Key

DC FlexZone–Silhouette Main Beam (2 separate circuits available)

Border Main Beam

Cross Tee

- ▲ Electrical Power-in Location (Bulb) on DC FlexZone Main
- Electrical Power-in Location (Reveal) on DC FlexZone—Silhouette Main
- End of DC FlexZone Main Beam Connected to Border Main
- Mechanical Connection of Two DC FlexZone Main Beams

	.

New DC FlexZone – Silhouette Suspension System Components			
DC FlexZone Main Beams	Quantity (Pieces)	Quantity (Cartons)	
DC760108	6	1	
Non-Powered Border Mains	Quantity (Pieces)	Quantity (Cartons)	
760106	6	1	

Note: A 2' x 4' layout of the application above would use the same number of DC FlexZone main beams but fewer cross tees.

CEILING | SYSTEMS

Between us, ideas become reality™

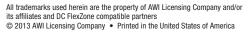


armstrong.com/dcflexzone

- Standard product information
- Real-time selection and specifications tools
- Online catalog
- DC FlexZone Overview Brochure
- DC FlexZone Specification Sheets & CAD Drawings
- Installation Instructions and Acoustical Contractor Tip Sheets
- Please see Electrical Design Guide (CS-4325) for design information on how to connect DC FlexZone Suspension Systems to EMerge Alliance[®] Registered and DC FlexZone Compatible power, infrastructure, lighting, and control products.

1 877 ARMSTRONG (276-7876)

- TechLine Technical information, detail drawings, CAD design assistance, installation information, other technical services – 8 a.m. to 5:30 p.m. EST, Monday through Friday. FAX 1-800-572-8324 or email: techline@armstrong.com
- Product literature and samples Express service or regular delivery





BPCS-4324-413