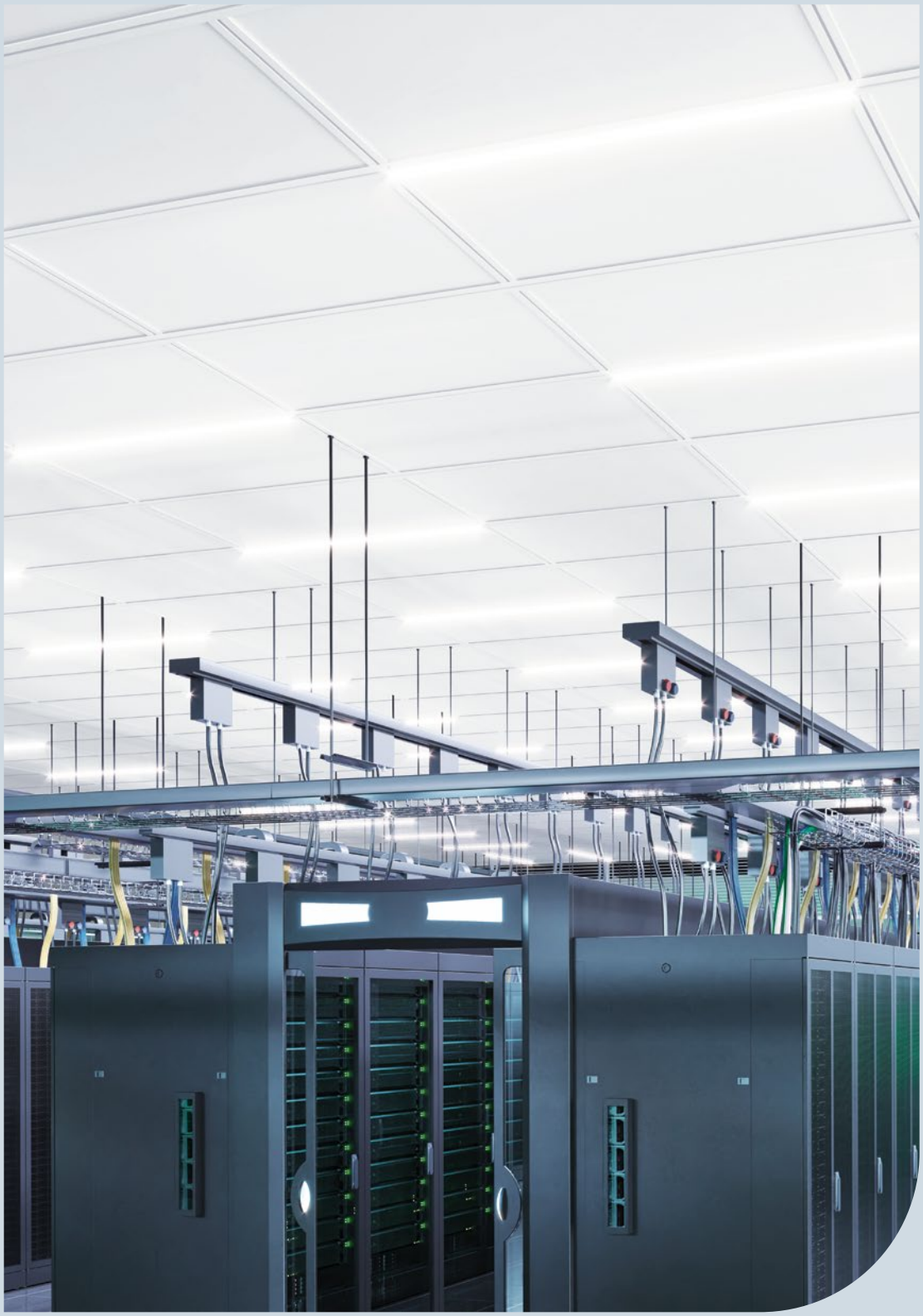
Data Center
Ceiling Solutions



Armstrong®
World Industries

Data Center Design

Strength Where You Need It Most



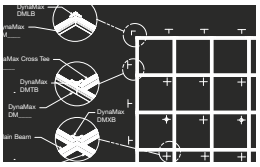
DynaMax® LT, DynaMax® MD, and DynaMax® Plus Structural Aluminum Suspension Systems

4



Suspension System Installation and Layout Overview

5



Lighting, Diffuser, and Containment Partners

7



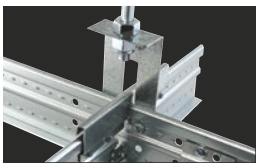
Recommended Ceiling Panels for DynaMax

10



Continuous Load Path (CLP) for Prelude® XL®

12



Prelude® XL Max® 15/16" Suspension System

14



Recommended Ceiling Panels for Prelude XL Max

16





Suspension Systems

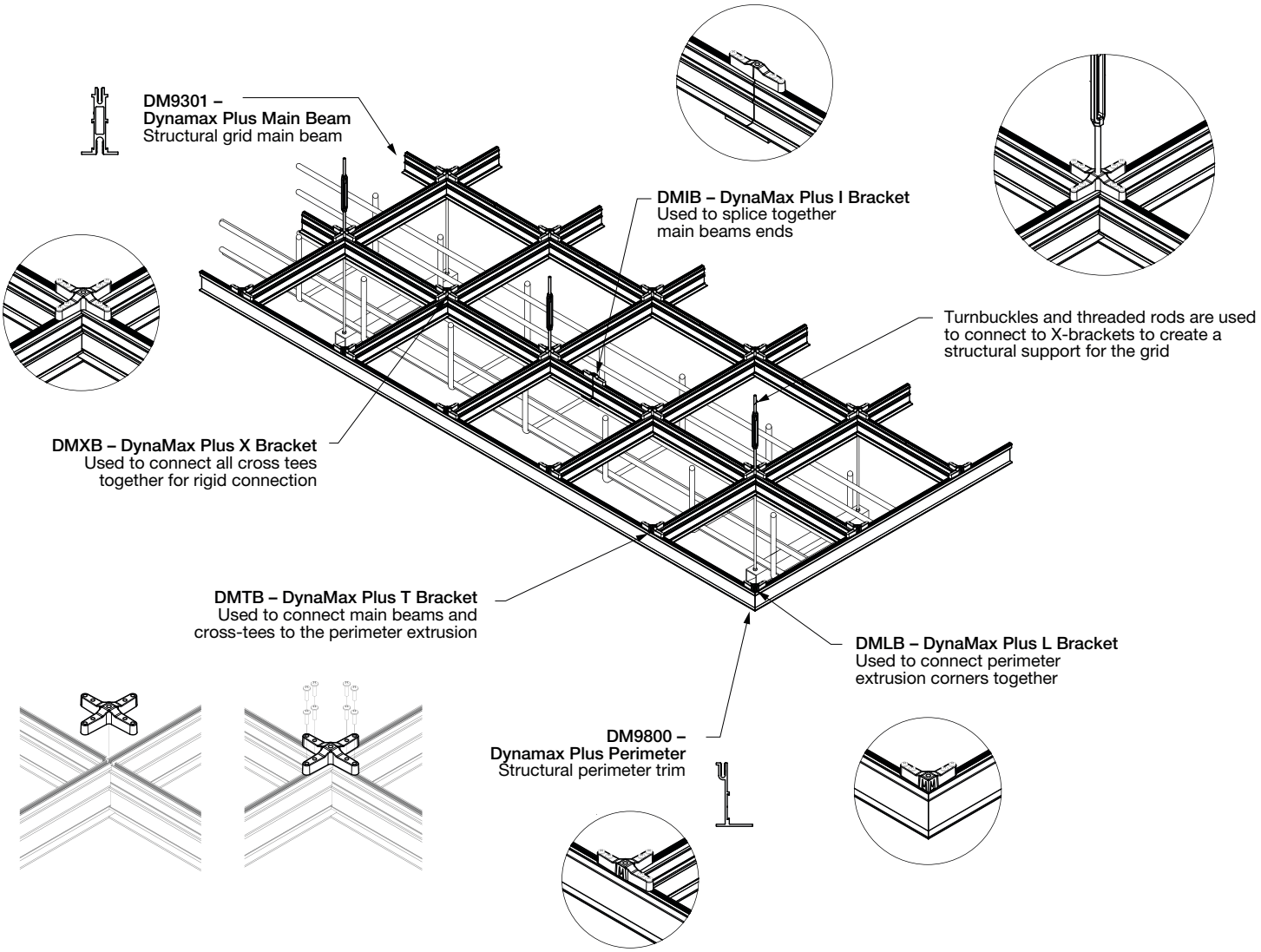
DynaMax® LT, DynaMax® MD & DynaMax® Plus

Provides an attachment platform for cable trays, equipment partitions, and hot and cold containment barriers from the structure to below the ceiling plane while eliminating penetrations through the ceiling.

Key Selection Attributes	**DynaMax LT Structural Grid**	**DynaMax MD Structural Grid**	**DynaMax Plus Structural Grid**
Ideal combination of a finished ceiling system with a structural solution	•	•	•
Easy integration into a conventional grid system using AXTBC clip and DynaMax® boss channe			•
Integrate seamlessly with select Armstrong® ceiling panels for a complete ceiling system solution	•	•	•
Supports up to a 1,000 lb. point load rating using 3/8"-16 threaded rod at 48" × 48" connection points		•	•
Factory-cut notches on main beams for faster and easier installation	•	•	•
Factory gasketing available	•	•	•
Suspension system has continuous threaded boss channel, allowing 3/8"-16 threaded rod to be installed to the suspension system at any location	•	•	•
X-Brackets attachment points for 48" × 48" suspension from building structure	•	•	•
Available in 24" × 24", 24" × 48", and 48" × 48" suspension system layouts	•	•	•
Fully accessible system allows for future expansion and upgrade	•	•	•
Non-progressive installation gives the ability to remove or replace a section of the system without the need to dismantle those components around it	•	•	•
Cross tees not bearing any load are removable for plenum access without compromising the structural integrity of the system	•	•	•
10-Year Limited Suspension System Warranty; 30-Year Limited Ceiling System Warranty	•	•	•
Available in oversized grid modules to accommodate standard ACT tile and fixtures	•	•	•
DMLAK/DMLAK12 can be utilized to increase point loads and/or provide 1/2'' thread attachment	•	•	•
Allows for longer spans (6' and 8') while also providing greater load carrying capacity and eliminating 1/3 or 1/2 of threaded rod			•
Supports point loads of up to 1,090 lbs. at the mid-point of 4' spans (up to 1,850 lbs. when utilizing the DMLAK for static point loads)			•
Data Center-Specific Attributes			
Provides a suspension platform or attachment for data center cable trays, equipment, partitions and hot and cold aisle containment barriers from building structure to below the ceiling plane	•	•	•
Finished ceiling system offers a containment barrier to protect servers from debris	•	•	•
Controls airflow by eliminating ceiling penetrations	•	•	•
Grid provides increased temperature and pressure management, reduced leakage, and enables the best hot and cold air containment at the ceiling plane when compared to other ceiling types	•	•	•
Available with Ultima® AirAssure® panels with factory-gasketed edges to provide even greater temperature and pressure management	•	•	•
Lighting, diffuser, and containment options are available from our Data Center lighting and MEP partners	•	•	•

Suspension Systems

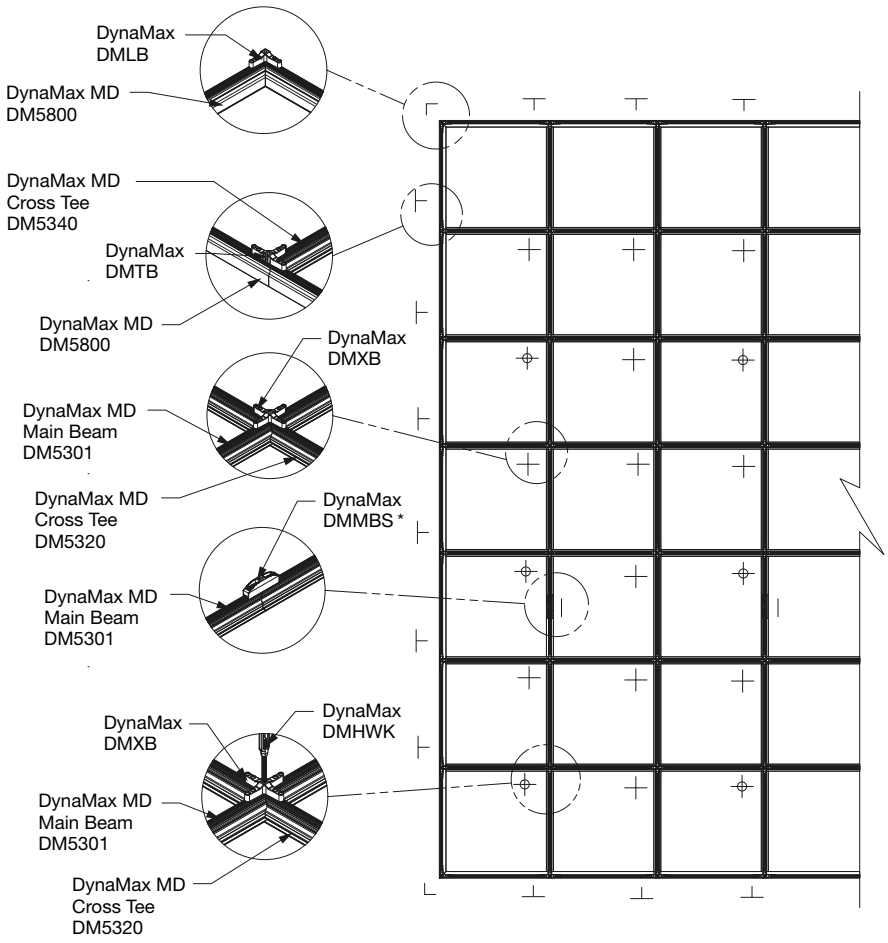
DynaMax® LT, DynaMax® MD & DynaMax® Plus



NOTE: Although the installation layout above is shown with DynaMax Plus grid system details, the same layout and brackets are used with the standard DynaMax LT & DynaMax MD systems. DynaMax LT & DynaMax MD use the Main Beam Splice (DMMBS) in place of the I-Bracket & DynaMax Main Beam Splice Plate.

Suspension Systems

DynaMax® LT, DynaMax® MD & DynaMax® Plus

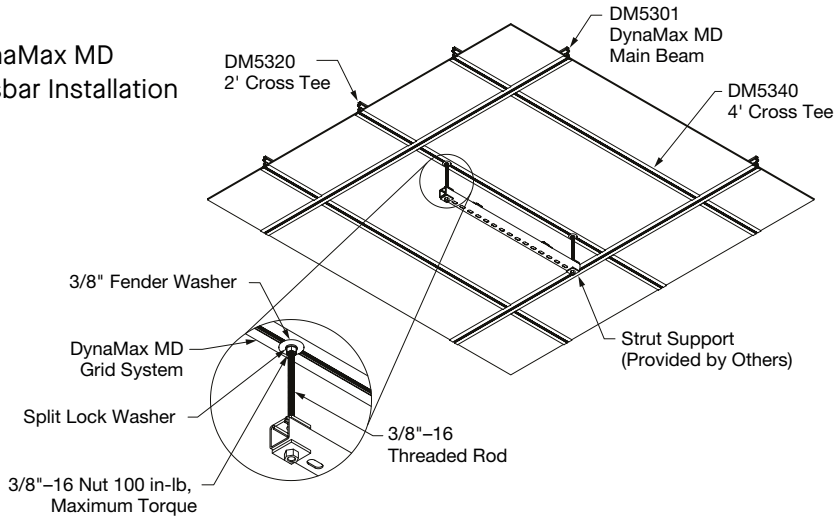


NOTE: DynaMax Plus threaded rod drops can be spaced at increased spans of 6' or 8' due to the system's greater load-carrying capability.

* DynaMax LT & DynaMax MD use the Main Beam Splice (DMMBS) in place of the DynaMax I-Bracket and the DynaMax Main Beam Splice Plate.

Installation detailed above with DynaMax MD, refer to DynaMax LT and DynaMax Plus technical guides for individual system layouts

DynaMax MD Busbar Installation



Integrated Lighting Solutions

DynaMax® LT, DynaMax® MD & DynaMax® Plus

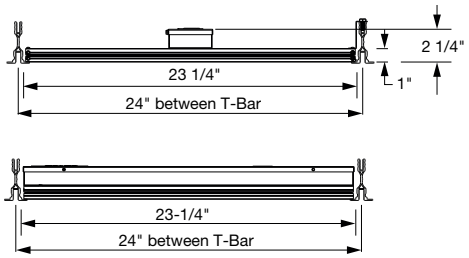
NOTE: In the section that follows, standard DynaMax MD grid is featured in the partner drawings; however, these partner solutions are all compatible with DynaMax LT and DynaMax Plus grid.

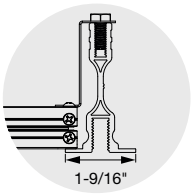


TRAYFIT™ 2' × 2'

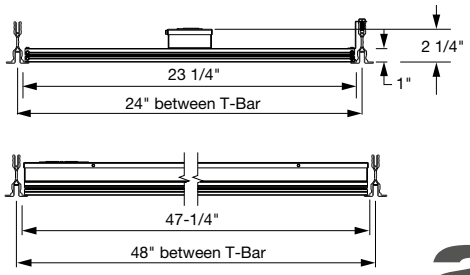


TRAYFIT™ 2' × 4'



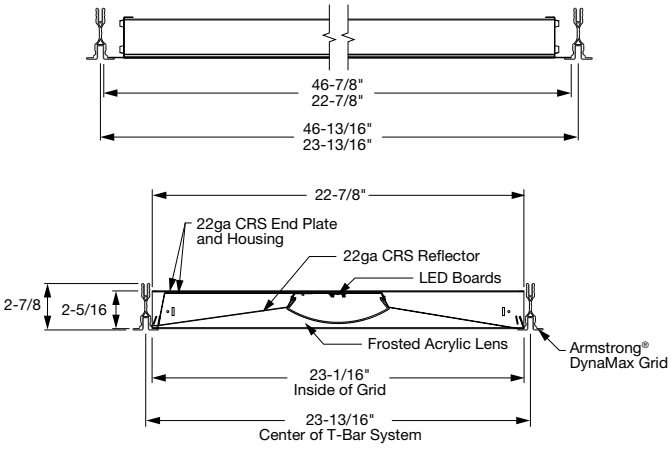


Detail View



For compatible lighting details, visit **axislighting.com**





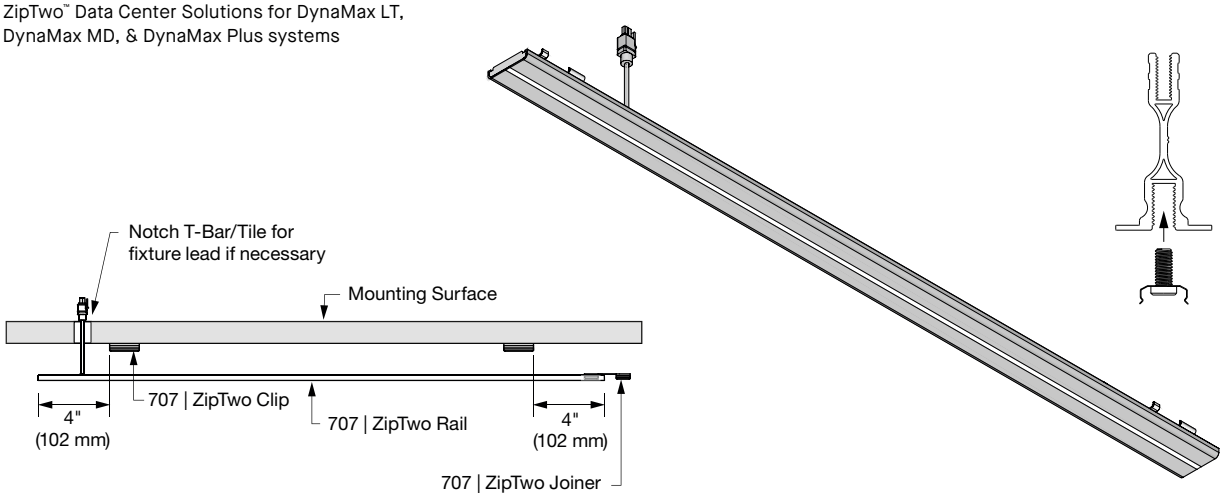
PTDC – Shallow Plenum LED Troffer for DynaMax LT, DynaMax MD & DynaMax Plus Systems

For compatible lighting details, visit **hew.com/products/PTDC**

Integrated Lighting Solutions

DynaMax® LT, DynaMax® MD & DynaMax® Plus

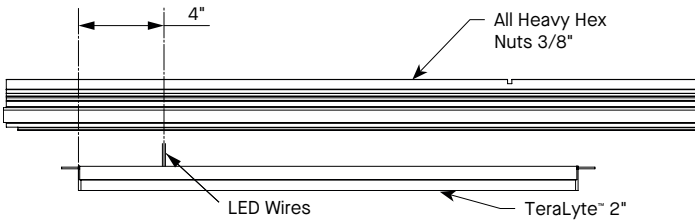
ZipTwo™ Data Center Solutions for DynaMax LT, DynaMax MD, & DynaMax Plus systems

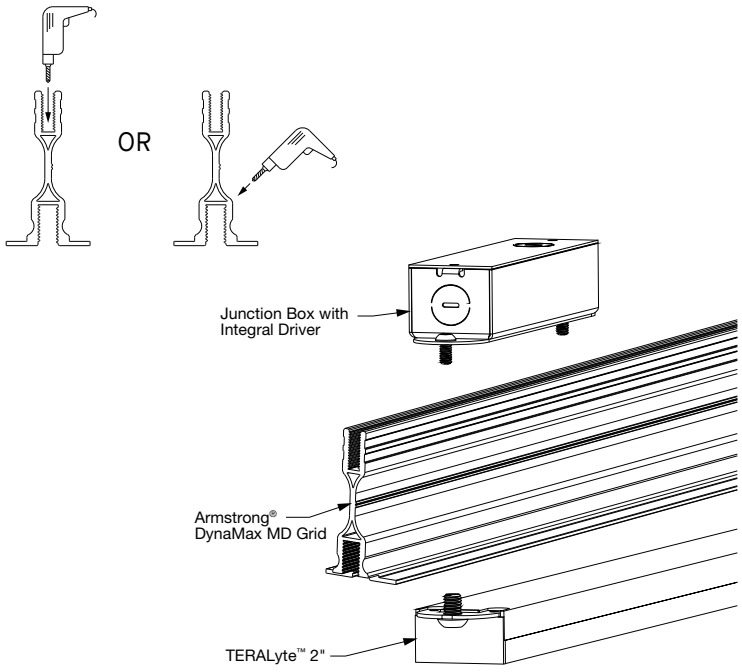


For compatible lighting details, visit **vode.com/dynamax**



TeraLyte™ 2" for the DynaMax LT, DynaMax MD & DynaMax Plus systems

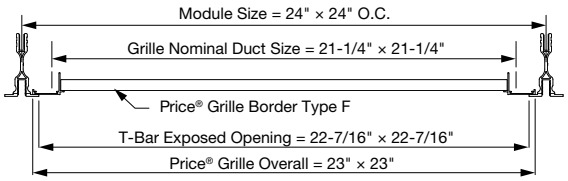


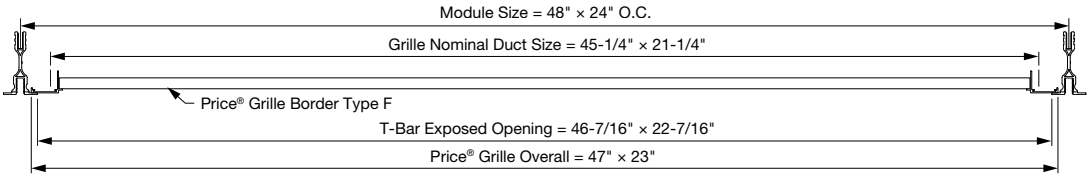


For compatible lighting details, visit **jlc-tech.com**

Additional Solution Partners

DynaMax® LT, DynaMax® MD & DynaMax® Plus



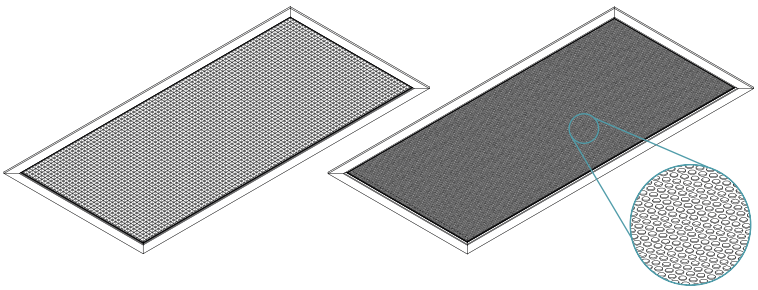




Eggcrate Air Device –
Price Model 80



Perforated Air Device –
Price Model 10



Eggcrate Air Device –
Price Model 80

Perforated Air Device –
Price Model 80

For compatible lighting details, visit **priceindustries.com/diffusers**

High Performance

DynaMax® LT, DynaMax® MD & DynaMax® Plus Suspension Systems

Visual Selection

Performance Selection

Dots represent high level of performance.

Edge Profile	Item No.	Dimensions (Inches)	Sound Absorption (NRC)	+	Sound Blocking (CAC)	=	Total Acoustics[1] (NRC + CAC)	Fire Performance	Light Reflect*	Bio-Block Mold & Mildew Protection	Humi-Guard+ Sag Resistant	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
DataZone™ for DynaMax® Square Lay-In	1508	23-1/4 × 23-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	0.82	•	•	•	Std	•	•	•
	1508BK	23-1/4 × 23-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	N/A	•	•	•	Std	•	•	•
	1509	23-1/4 × 47-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	0.82	•	•	•	Std	•	•	•
	1509BK	23-1/4 × 47-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	N/A	•	•	•	Std	•	•	•
	1564	23-1/4 × 23-1/4 × 1"	0.85	+	30	=	N/A	Class A	0.82	•	•	•	Std	•	•	•
	1565	23-1/4 × 47-1/4 × 1"	0.85	+	30	=	N/A	Class A	0.82	•	•	•	Std	•	•	•
	1566	23-1/4 × 23-1/4 × 3/4"	0.90	+	N/A	=	N/A	Class A	0.82	•	•	•	Std	•	•	•
	1566BK	23-1/4 × 23-1/4 × 3/4"	0.90	+	N/A	=	N/A	Class A	N/A	•	•	•	Std	•	•	•
	1567	23-1/4 × 47-1/4 × 3/4"	0.90	+	N/A	=	N/A	Class A	0.82	•	•	•	Std	•	•	•
	1567BK	23-1/4 × 47-1/4 × 3/4"	0.90	+	N/A	=	N/A	Class A	N/A	•	•	•	Std	•	•	•
	1568	47-1/4 × 47-1/4 × 1"	0.90	+	N/A	=	N/A	Class A	0.82	•	•	•	Std	•	•	•
Ultima® Templok® for DynaMax Field Panel** Square Lay-In	1546TEMP	23-1/4 × 23-1/4 × 1"	0.75	+	39	=	BETTER	Class A	0.88	•	•	•	•	•	•	•
	1547TEMP	23-1/4 × 47-1/4 × 1"														
Ultima® for DynaMax® Border Panel** 15/16" Square Lay-In	1807	23-1/4 × 23-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	0.88	•	•	•	•	•	•	•
	1808	23-1/4 × 47-1/4 × 3/4"														
Ultima®Airassure® for DynaMax Square Lay-In	1599	23-1/4 × 23-1/4 × 3/4"	0.75	+	35	=	BETTER	Class A	0.88	•	•	•	•	•	•	•
	1638	23-1/4 × 47-1/4 × 3/4"														

Ceiling panels are specially sized and engineered for the DynaMax suspension systems and must be used with the systems. These panels do not fit in other suspension systems.

* Advertised values for light reflectance are applicable to white tiles only.

** Specify field and border panels together. Field panels cannot be cut.

[1] Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)

High Performance

DynaMax® MD & DynaMax® Plus Suspension Systems



Visual Selection

Performance Selection

Dots represent high level of performance.

Edge Profile		Item No.	Dimensions (Inches)	NRC with acoustical fleece	NRC with 1" fiberglass infill*	Fire Performance	Light Reflect*	Mold & Mildew Protection	Certified Low VOC Emissions	Durability	Recycled Content
Metalworks™ for DynaMax MD® & DynaMax Plus Square Lay-In	M1 (Unperforated)	6345W24L48M1WHA	23" × 47"	N/A	N/A	Class A	0.75	•	•	•	•
		6345W48L48M1WHA	47" × 47"	N/A	N/A	Class A	0.75	•	•	•	•
	M19	6345W24L48M19WHA	23" × 47"	0.70 * •	0.85	Class A	0.75	•	•	•	•
		6345W48L48M19WHA	47" × 47"	0.70 * •	0.85	Class A	0.75	•	•	•	•

NOTE: Ceiling panels are specially sized and engineered for the DynaMax and DynaMax Plus suspension systems and must be used with the systems. These panels do not fit in other suspension systems. For additional info, please contact your local Armstrong rep.

* NRC achieved with acoustical infill (Item 8200T10).

Continuous Load Path (CLP)



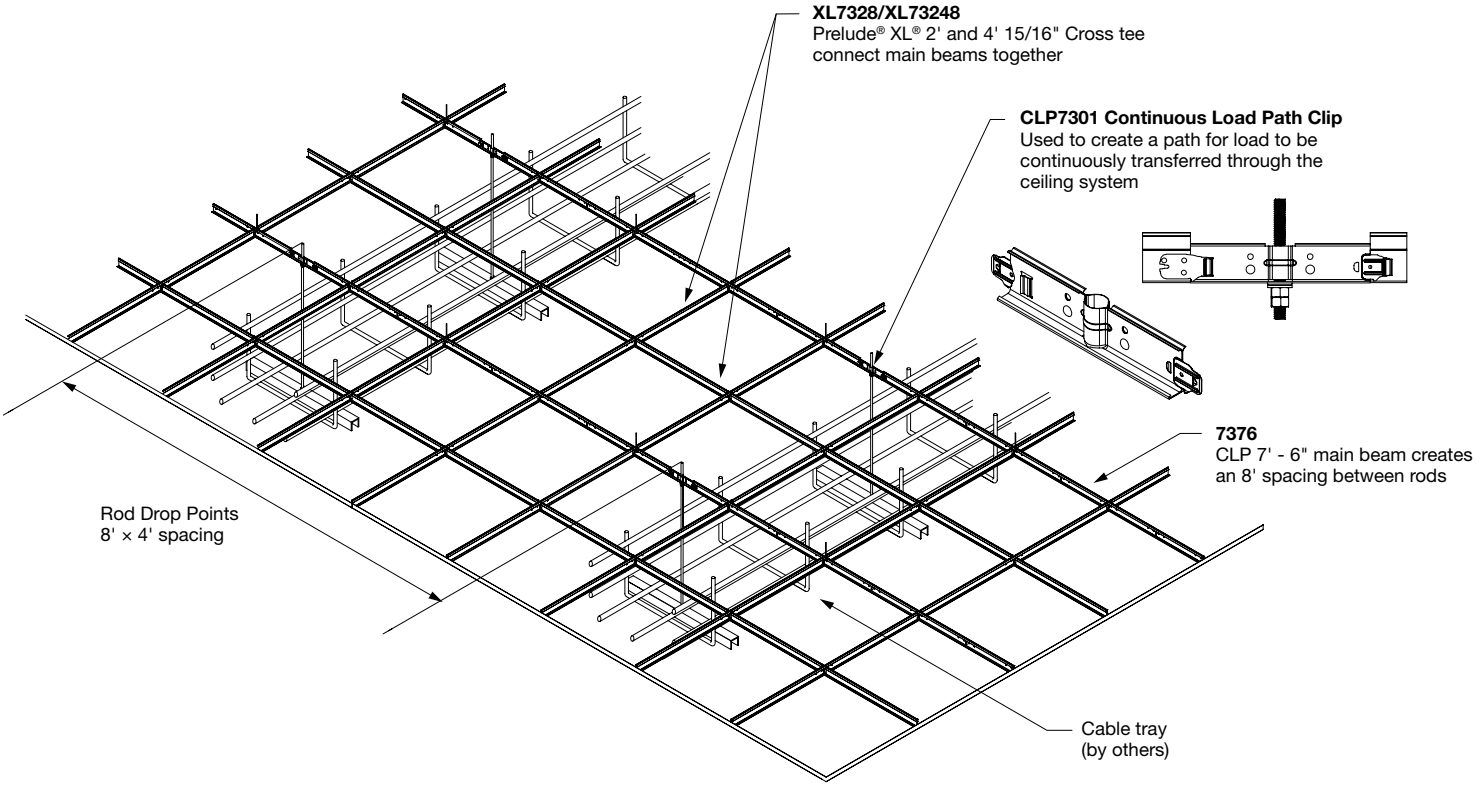
The CLP 6" main beam component integrates with the Prelude® XL® suspension system, creating a pathway for the threaded rod to pass through the ceiling plane without unwarranted air penetration.

- Allows a threaded rod to connect to the deck without interrupting the ceiling plane
- Designed to accommodate 1/2" and 3/8" threaded rods with point loads of up to 1,800 lbs. per 3/8" threaded rod and up to 3,300 lbs per 1/2" rod with no weight transferred to the ceiling system
- Provides flexibility to design data halls that require heavier loads by using standard Prelude XL ceiling system in main or high load trunk lines
- Helps to manage air flow without unwarranted air penetrations in the ceiling grid or panels
- Reduces number of hanger wires

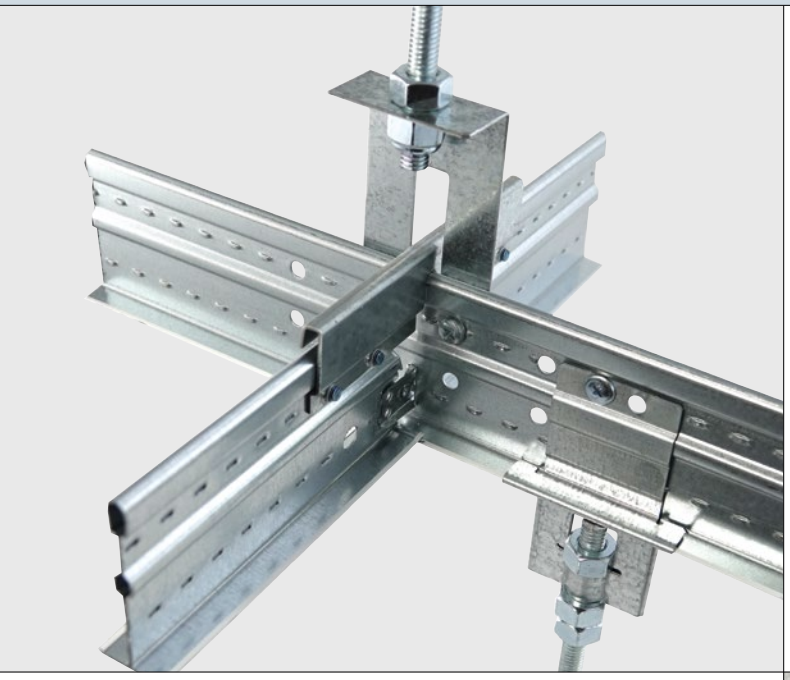


NOTE: The load is completely supported by the threaded rod to the deck and is not transferred to the suspension system. The CLP with coordinating 7'-6" and 9'-6" main beams creates typical 8' and 10' layouts.

Continuous Load Path (CLP)



Prelude® XL Max®



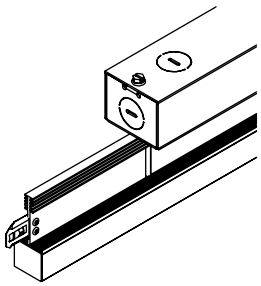
The Prelude® XL Max® suspension system supports single point loads up to 300 lbs. for cable trays, busbars, hot aisle containment, and more.

Load connector clips attach to the face of the suspension system to eliminate unsightly threaded rod penetrations through the ceiling plane minimizing unwanted air infiltration while improving access, cable tray layout options, and aesthetics.

Prelude® XL Max® Lighting Solutions

TeraLyte™ 1" for Prelude XL Max System

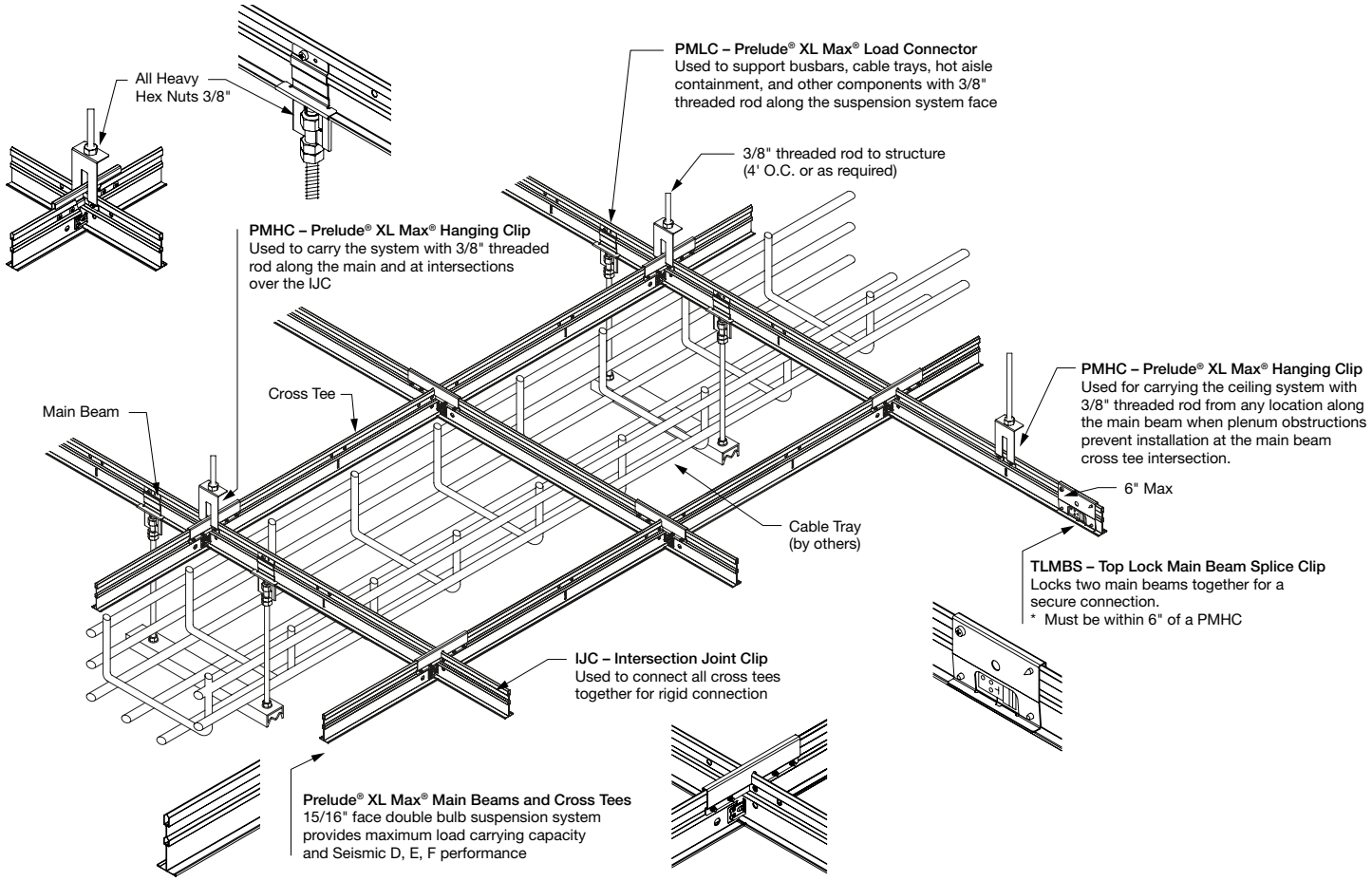
Integrated hanging clips allow connection to 3/8" threaded rod for flexible and reconfigurable overhead cable tray and electrical distribution without a separate strut channel system.





JLC • tech

Prelude® XL Max®



High Performance

Prelude® XL Max® Suspension Systems

Visual Selection

Performance Selection

Dots represent high level of performance.

Edge Profile	Item No.	Dimensions (Inches)	Sound Absorption (NRC)	+	Sound Blocking (CAC)	=	Total Acoustics[1] (NRC + CAC)	Fire Performance	Light Reflect*	Bio-Block Mold & Mildew Protection	Humi-Guard+ Sag Resistant	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
DataZone™ for Prelude® XL Max® Square Lay-in 	1569	23-13/16 × 23-13/16 × 3/4"	0.75		35 •		BETTER	Class A	0.82	•	•	•	Std	•	•	•
	1570	23-13/16 × 47-13/16 × 3/4"														
	1576	23-13/16 × 23-13/16 × 1"	0.85		30		N/A	Class A	0.82	•	•	•	Std	•	•	•
	1577	23-13/16 × 47-13/16 × 1"														
Clean Room™ FL for Prelude® XL Max® Square Lay-in 	1815*	23-13/16 × 23-13/16 × 3/4"	0.55		35 •		N/A	Class A	0.79	•	•	•	•	•	•	•
	1816*	23-13/16 × 47-13/16 × 3/4"														
	1720 (Border Panel)	24 × 24 × 5/8"														
	1721 (Border Panel)	24 × 48 × 5/8"														

Ceiling panels are specially sized and engineered for the DynaMax suspension systems and must be used with the systems. These panels do not fit in other suspension systems.

* Advertised values for light reflectance are applicable to white tiles only.

** Specify field and border panels together. Field panels cannot be cut.

[1] Total Acoustics® ceiling panels have an ideal combination of sound absorption and sound blocking in one product.
GOOD (NRC 0.60-0.65; CAC 35+) **BETTER** (NRC 0.70-0.75; CAC 35+) **BEST** (NRC 0.80+; CAC 35+)



Take the Next Steps

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