



DATA CENTER

Ceiling
Solutions

Inspiring Great Spaces®

Armstrong®
CEILING SOLUTIONS

Data Center Design: STRENGTH

Where you need it most

Data Centers come with their own set of design challenges. See how we've made it easier to get the high-strength solutions you need for your unique project.



4

DYNAMAX™
STRUCTURAL
ALUMINUM
SUSPENSION SYSTEM



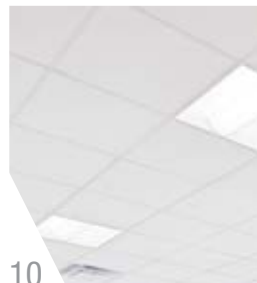
6

CONTINUOUS LOAD
PATH (CLP) FOR
PRELUDE® XL®



8

PRELUDE® XL MAX®
15/16" SUSPENSION
SYSTEM



10

HIGH PERFORMANCE
CEILING PANEL
SELECTIONS

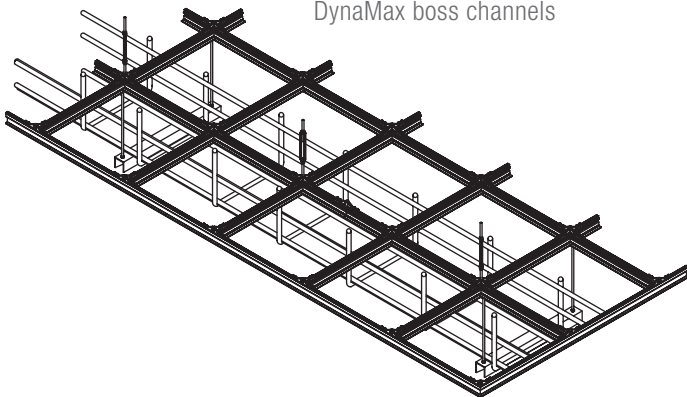




DYNAMAX™ Suspension System

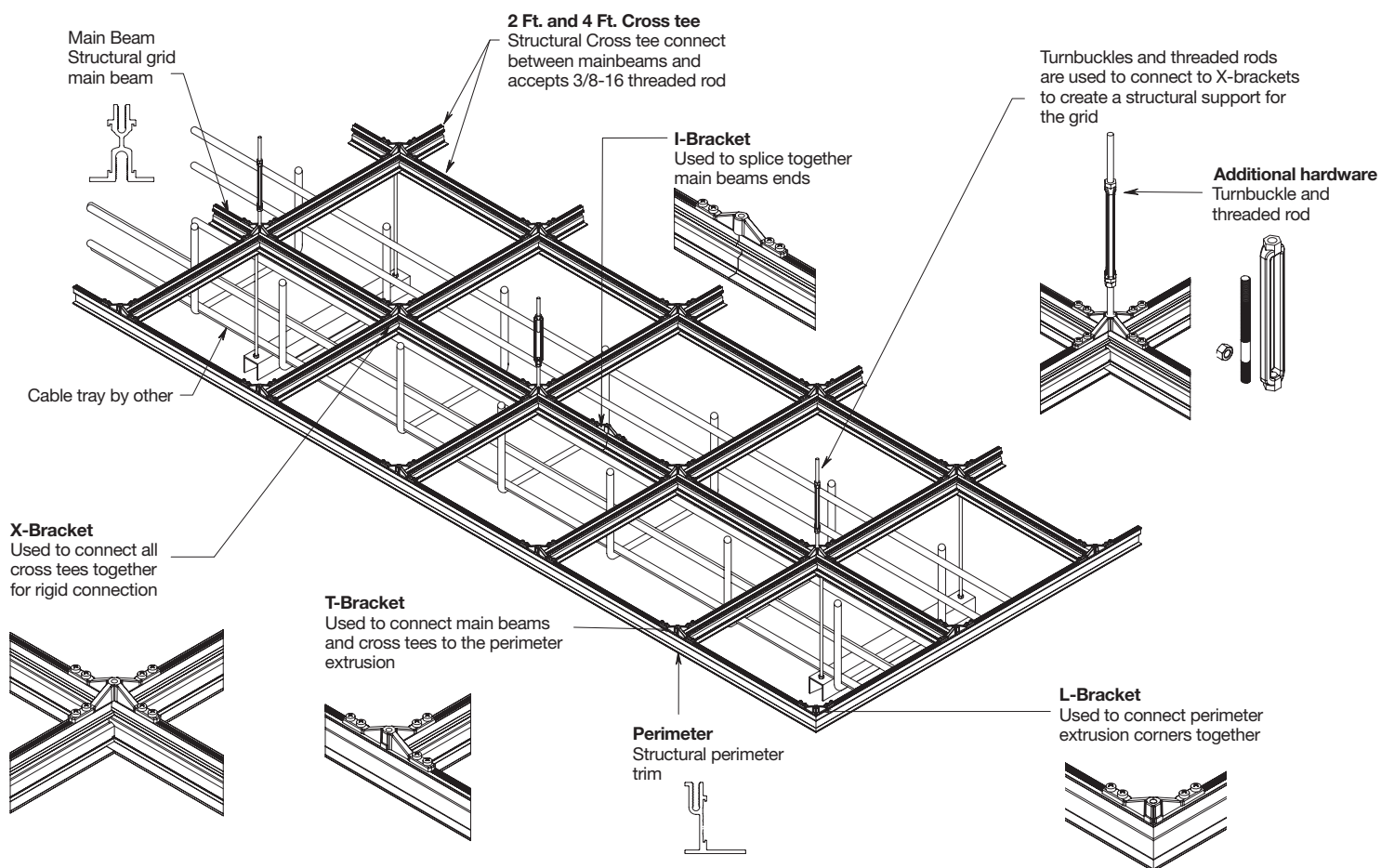
Provides an attachment platform for cable trays, equipment partitions, and hot and cold containment barriers from the structure to below the ceiling plane while eliminating penetrations through the ceiling.

- Provides a suspension platform or attachment for data center cable trays, equipment, partitions, and hot and cold containment barriers from building structure to below the ceiling plane
 - Finished ceiling system offers a containment barrier to protect servers from debris
 - Easy integration into a conventional grid system using AXTBC clip and DynaMax boss channels
- DynaMax suspension system can integrate seamlessly with Armstrong® ceiling panels for a complete ceiling system solution
- Lighting integration solutions available
- Supports up to a 900 lb. point load rating using 3/8" threaded rod at 4 x 4' connection points
- Factory cut notches on main beams for a faster and easier installation
- Grid system has continuous threaded boss channel, allowing 3/8" threaded rod to be installed to the suspension system at any location
- Controls airflow by eliminating penetrations
- Available in 2 x 2', 2 x 4' and 4 x 4' suspension system layouts
- CNC override feature creates a tight fit minimizing air leakage between plenum and occupied space
- Fully accessible system allows for future expansion and upgrades
- Cross tees not bearing any load are removable for plenum access without compromising the structural integrity of the system
- 10-year limited Warranty



DYNAMAX™ Suspension System

How It Works





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.

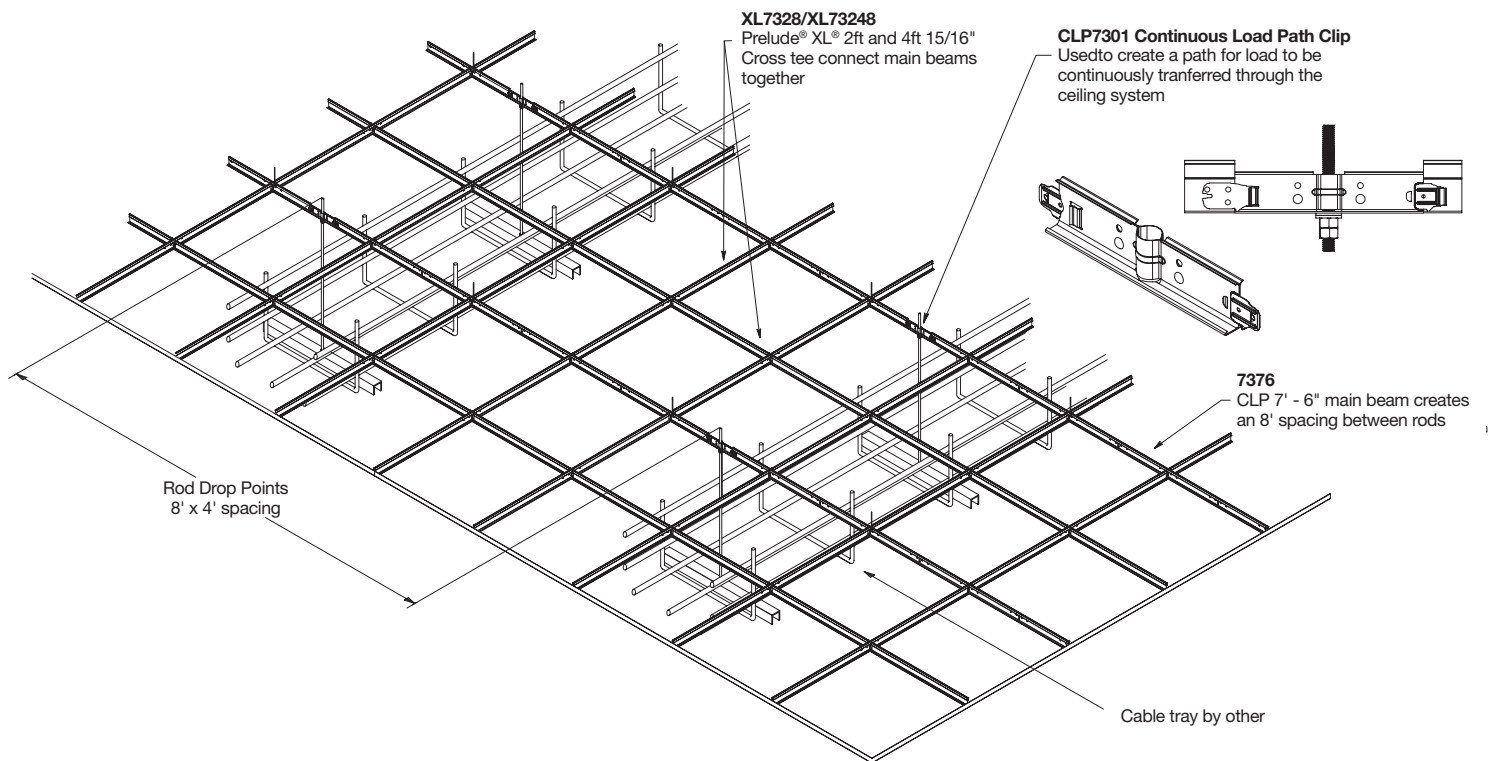
Continuous Load Path (CLP)

The CLP 6" main beam component integrates with 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
- Reduce number of hanger wires

Continuous Load Path (CLP)

How It Works





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.

PRELUDE® XL MAX®

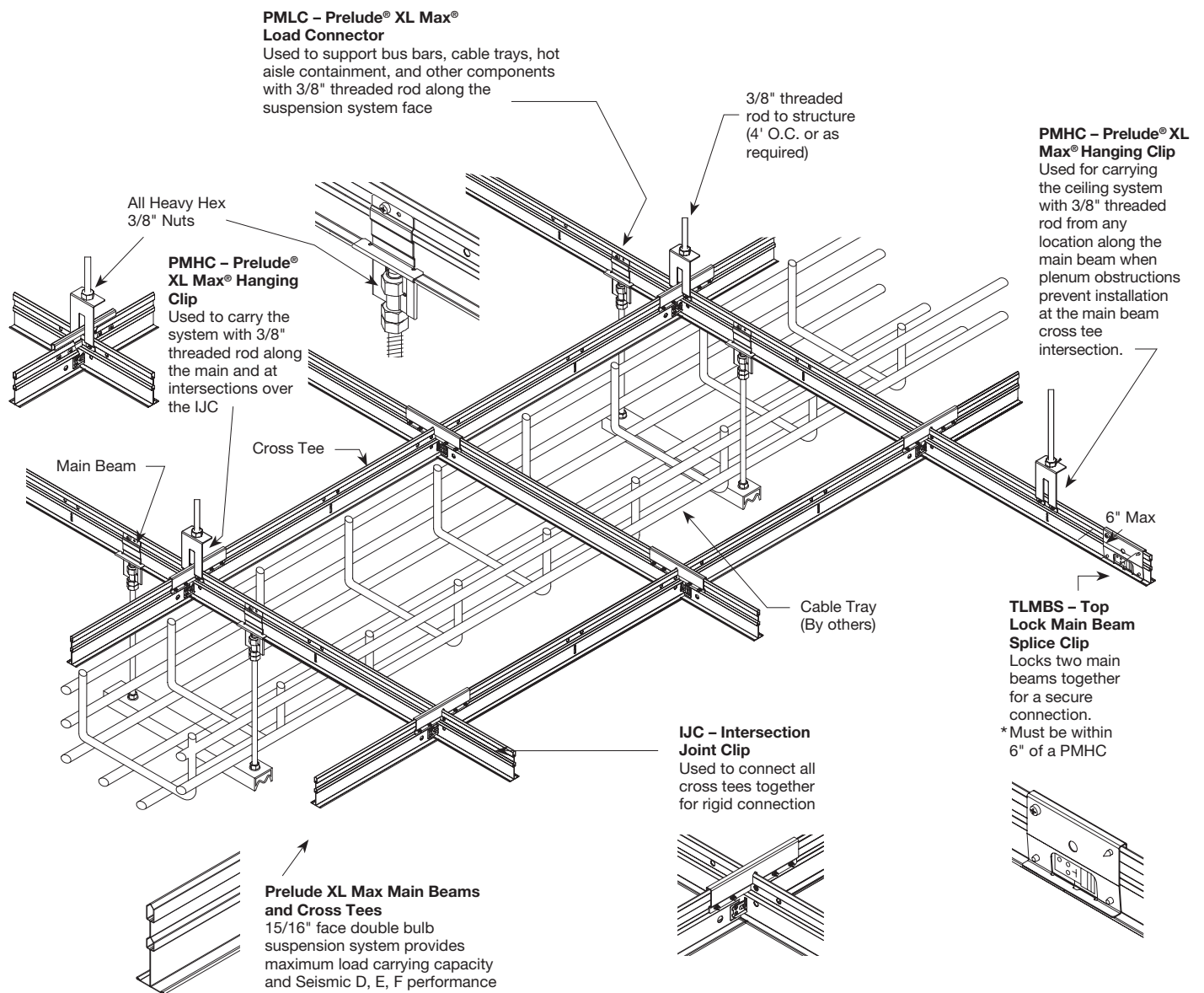
The Prelude® XL MAX® suspension system supports single point loads up to 300 lbs. for cable trays, busways, hot aisle containment, and more.

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[®]


How It Works



HIGH PERFORMANCE

Ceiling Panel Selections for DYNAMAX™ Suspension Systems

VISUAL SELECTION

Edge Profile	Item No.	Description	Dimensions Actual (Inches)
Ceiling Panels for DYNAMAX Data Center Ceiling Systems			
 Square Lay-in	4126	Fine Fissured™	23 x 23 x 5/8"
	4126BL	Fine Fissured	23 x 23 x 5/8"
	4127	Fine Fissured	47 x 23 x 5/8"
	4127BL	Fine Fissured	47 x 23 x 5/8"
	2896	Calla®	23 x 23 x 1"
	2896BK	Calla	23 x 23 x 1"
	2897	Calla	47 x 23 x 1"
	2897BK	Calla	47 x 23 x 1"
	4270	Dune™	23 x 23 x 5/8"
	4271	Dune	47 x 23 x 5/8"
	1807	Ultima™	23 x 23 x 7/8"
	1808	Ultima	47 x 23 x 7/8"

PERFORMANCE SELECTION

Dots represent high level of performance.


UL Classified Acoustics		Total Acoustics¹		Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	10-Yr Warranty
NRC	CAC	NRC + CAC	AC			Bio Block	Humi-Guard+					
—	—	—	—	Class A	0.82	•	•	•	Std	Std	•	•
—	—	—	—	Class A	0.82*	•	•	•	Std	Std	•	•
—	—	—	—	Class A	0.82	•	•	•	Std	Std	•	•
—	—	—	—	Class A	0.82*	•	•	•	•	•	•	•
—	—	—	170 •	Class A	0.85	•	•	•	•	•	•	•
—	—	—	170 •	Class A	N/A	•	•	•	•	•	•	•
—	—	—	170 •	Class A	0.85	•	•	•	•	•	•	•
—	—	—	170 •	Class A	N/A	•	•	•	•	•	•	•
—	—	—	—	Class A	0.81	•	•	•	•	•	•	•
—	—	—	—	Class A	0.81	•	•	•	•	•	•	•
—	—	—	170 •	Class A	0.88	•	•	•	•	•	•	•
—	—	—	170 •	Class A	0.88	•	•	•	•	•	•	•

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

HIGH PERFORMANCE

Ceiling Panel Selections for PRELUDE® XL MAX® Suspension Systems

VISUAL SELECTION

Edge Profile	Item No.	Description	Dimensions Nominal (Inches)
PRELUDE® XL® MAX™ Square Lay-in			
	1778	Fine Fissured™	23.5 x 23.5 x 5/8"
	1779	Fine Fissured	23.5 x 47.5 x 5/8"
	1488	Canyon®	23.5 x 23.5 x 5/8"
	1489	Canyon	23.5 x 47.5 x 5/8"
	1927	Ultima™	23.5 x 23.5 x 3/4"
	1928	Ultima	23.5 x 47.5 x 3/4"
	1815	Clean Room™ FL	23.5 x 23.5 x 3/4"
	1816	Clean Room FL	23.5 x 47.5 x 3/4"
	3398	Optima®	23.5 x 23.5 x 1"
	3399	Optima	23.5 x 47.5 x 1"
	1747ABL	Fine Fissured – Black	23.5 x 23.5 x 5/8"
	1748ABL	Fine Fissured – Black	23.5 x 47.5 x 5/8"

PERFORMANCE SELECTION Dots represent high level of performance.

UL Classified Acoustics		Total Acoustics ¹	AC	Fire Performance	Light Reflect	Anti-Mold & Mildew	Sag Resist	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC											
0.75	35	BETTER	170	Class A	0.86	•	•	•	Std	•	•	•
0.75	35	BETTER	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr
0.60	35	GOOD	170	Class A	0.80	•	•	•	Std	Std	•	•
0.60	35	GOOD	170	Class A	0.80	•	•	•	Std	Std	•	•
0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•
0.80	35	BEST	170	Class A	0.87	•	•	•	•	•	•	•
0.55	35	–	–	Class A	0.79	•	•	•	•	•	–	•
0.55	35	–	–	Class A	0.79	•	•	•	•	•	–	•
0.90	N/A	–	200	Class A	0.90	•	•	–	•	•	–	•
0.90	N/A	–	180	Class A	0.90	•	•	–	•	•	•	•
0.75	35	BETTER	170	Class A	0.86	•	•	•	Std	•	•	•
0.75	35	BETTER	170	Class A	0.86	•	Std	•	Std	•	•	1-Yr

* These panels are specially sized and engineered for Prelude® XL Max® and must be used with the system. These panels do not fit in other suspension systems.

TAKE THE NEXT STEP

1 877 276 7876

Customer Service Representatives

7:45 a.m. to 5:00 p.m. EST Monday through Friday

TechLine – Technical information, detail drawings,
CAD design assistance, installation information,
other technical services – 8:00 a.m. to 5:30 p.m. EST,
Monday through Friday. FAX 1 800 572 8324
or email: techline@armstrongceilings.com

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