

DYNAMAX® LT

Structural Aluminum Suspension System



DynaMax LT Structural Aluminum Suspension System

This structural aluminum suspension system, ideal for Colocation Data Centers, serves as both a ceiling system and structural component by providing a suspension platform for cable trays, equipment, partitions, and containment barriers – eliminating ceiling penetrations.

KEY SELECTION ATTRIBUTES

- Ideal combination of a finished ceiling system with a structural solution
- Integrates seamlessly with select Armstrong® ceiling panels for a complete ceiling system solution
- Supports up to a 800 lb. point load rating using 3/8"–16 threaded rod at 48" x 48" connection points
- Suspension system has continuous threaded boss channel, allowing 3/8"–16 threaded rod to be installed to the suspension system at any location
- Available in 24" x 24", 24" x 48" and 48" x 48" 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
- 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 Warranty; 30-Year Limited System Warranty
- X-Brackets provide attachment points for 48" x 48" suspension from building structure
- For custom layout information and technical guidelines, contact TechLine customer support at 877 276-7876

For Data Center Applications

- Provides a suspension platform or attachment for data center cable trays, equipment, partitions and hot and cold aisle containment barriers
- Finished ceiling system offers a containment barrier to protect servers from debris from building structure to below the ceiling plane
- Controls airflow by eliminating 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 and diffuser options are available from our Data Center lighting and MEP partners

TYPICAL APPLICATIONS

- Colocation Data Centers
- Data Centers
- Laboratories
- Hospitals
- Industrial Warehouses/ Distribution Centers
- Retail/Convenience Store

COLORS

Standard



White (WH)



Available in any color!

White is standard color for main beams and cross tees. All brackets and hardware are unfinished. Custom colors and finishes are available for main beams, cross tees, perimeter molding, and ceiling panels. Contact Armstrong Customer Service 877 276-7876

DETAIL



DYNAMAX® LT

Structural Aluminum Suspension System



Declare.

RECYCLED
CONTENT

UP TO
50%

LEED V5

Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health

Declare Label

Climate Health

EPD

HPD

Ecosystem Health

EPD

3rd Party CDPH

Circular Economy



Well Building Standard™ (WELL)
Living Building Challenge® (LBC)

VISUAL SELECTION

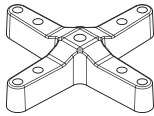
	Item No.	Description	Dimensions (Inches) L x W x H	PCS/ CTN	LF/ CTN
DynaMax® LT Structural Aluminum Suspension System	DM2301	Main Beam	144 x 1-9/16 x 2-1/8"	4	48
	DM2320	2' Cross Tee	24 x 1-9/16 x 2-1/8"	12	24
	DM2340	4' Cross Tee	48 x 1-9/16 x 2-1/8"	12	48
	DM2800	Perimeter Molding	144 x 1-15/32 x 2-1/8"	4	48
DynaMax LT Structural Aluminum Suspension System - Factory Gasketed	DM2301GS	Main Beam	144 x 1-9/16 x 2-1/8"	4	48
	DM2320GS	2' Cross Tee	24 x 1-9/16 x 2-1/8"	12	24
	DM2340GS	4' Cross Tee	48 x 1-9/16 x 2-1/8"	12	48
	DM2800GS	Perimeter Molding	144 x 1-15/32 x 2-1/8"	4	48

NOTE: Contact local engineer for job specific load and/or seismic requirements.

PACKAGING

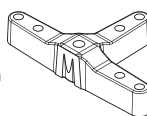
ACCESSORIES

DMXB - X-Bracket
Used to connect all
cross tees together
for rigid connection



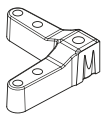
DMXB - 24 PCS

DMTB - T-Bracket -
Used to connect main
beams and cross tees
to the perimeter extrusion



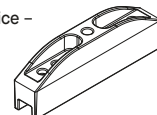
DMTB - 36 PCS

DMLB - L-Bracket -
Used to connect perimeter
extrusion corners together



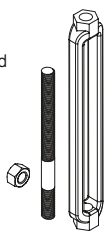
DMLB - 12 PCS

DMMBS - Main Beam Splice -
Used to splice together
main beam ends



DMMBS - 24 PCS

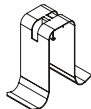
DMHWK - Hardware Kit -
Turnbuckles and threaded
rods are used to connect the
X-brackets to the threaded rod
to create a structural support
for the grid



DMHWK - 12 PCS

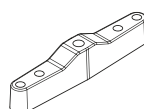
OPTIONAL ACCESSORIES

DMHDC - Hold-down Clip -
Attaches to the suspension
system to hold Lay-in panels
in place



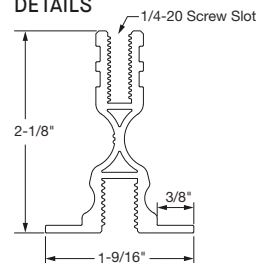
DMHDC - 100 PCS

DMIB - I-Bracket -
Used for supplemental
hanging locations

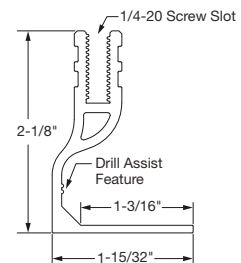


DMIB - 24 PCS

DETAILS



DynaMax LT Main Beam



DynaMax LT Perimeter Molding

LOAD DATA FOR DYNAMAX LT SUSPENSION SYSTEMS

Member Span and Spacing (IN.)	48"	60"	72"
Maximum Allowable Uniform Area Load (LBS/SF)	50	32	22.2
Mid-Span Point Load @ L/360 Deflection (LBS)	160	100	60
Maximum Static Point Load (LBS)	800	800	800
Turnbuckle Maximum Load to Structure (LBS)	1200	1200	1200

For additional load-carrying capability, ask your Armstrong Rep about DynaMax® and DynaMax Plus Structural Grid System.

DYNAMAX® LT

Structural Aluminum Suspension System



Declare.

RECYCLED
CONTENT

UP TO
50%

LEED V5

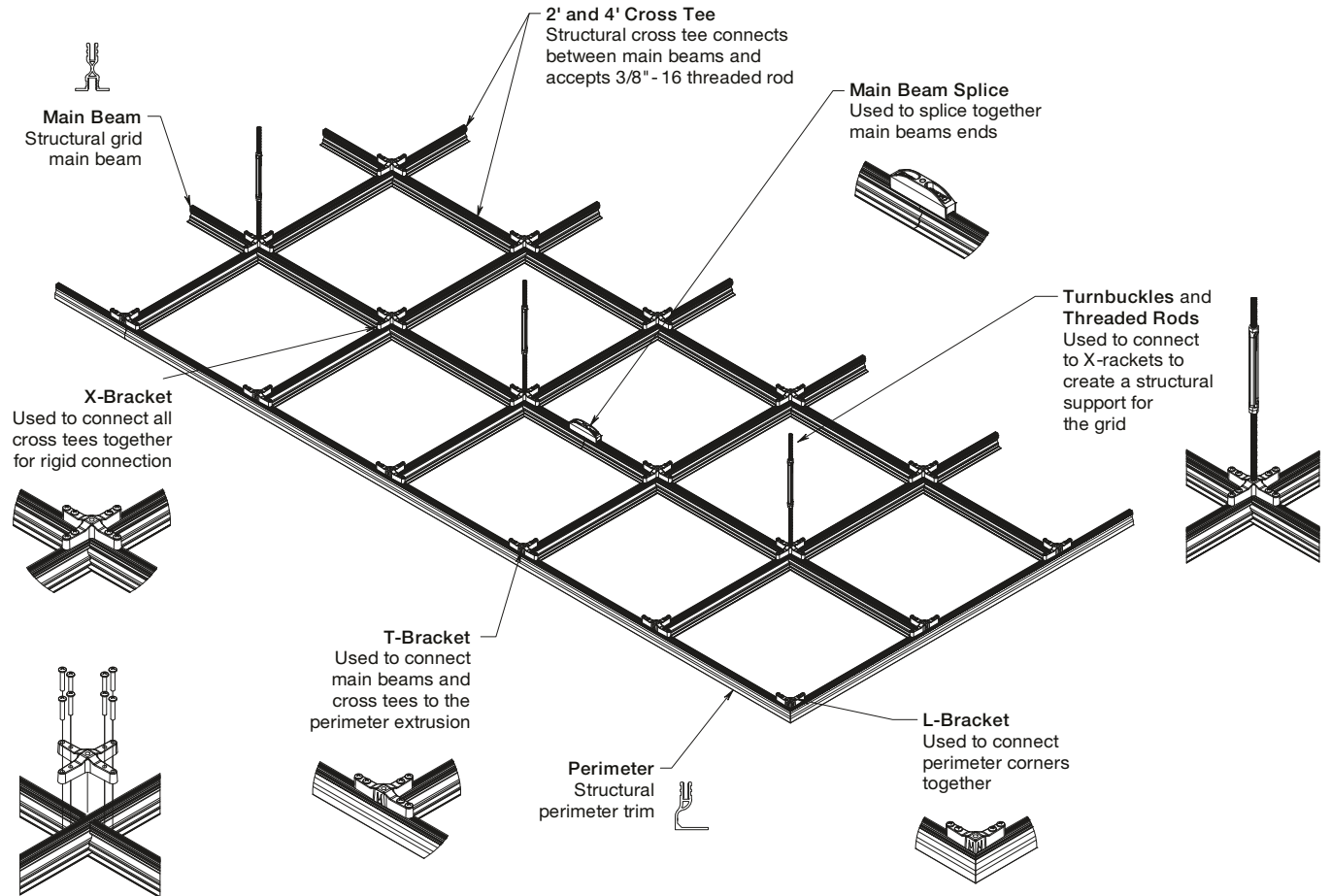
Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓

Well Building Standard™ (WELL)
Living Building Challenge® (LBC)

DYNAMAX® LT SUSPENSION SYSTEM INSTALLATION OVERVIEW



SUSPENSION SYSTEMS – DATA CENTERS

DYNAMAX® LT

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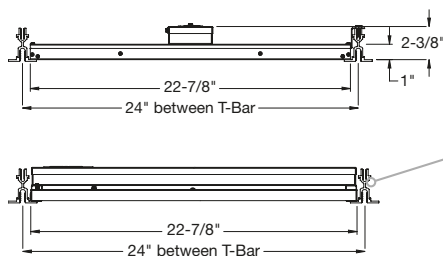
LIGHTING PARTNERS Lighting and diffuser solutions are available through partner companies.



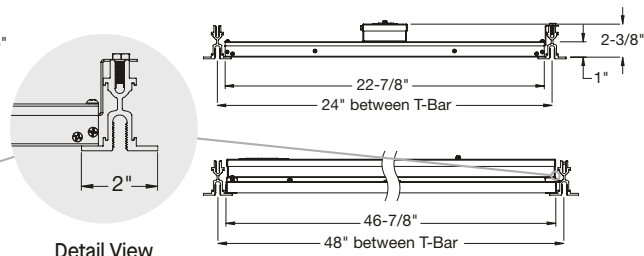
For compatible lighting details,
visit axislighting.com



TRAYFIT™ 2' x 2'



TRAYFIT™ 2' x 4'



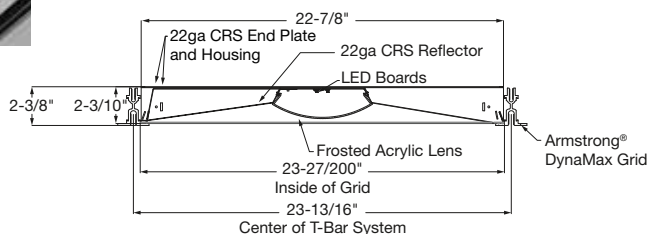
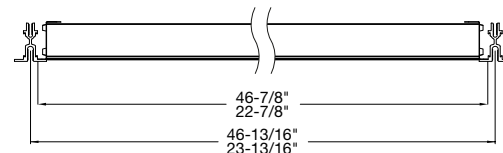
Detail View



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



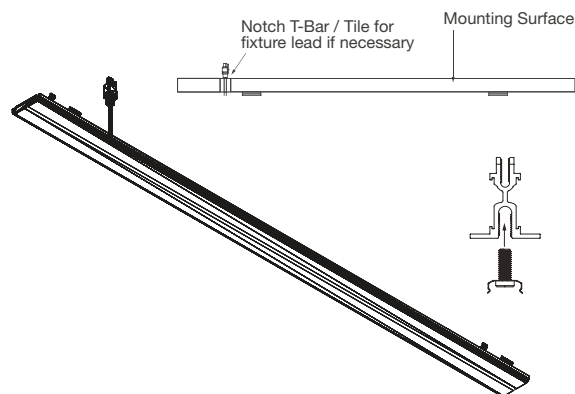
PTDC – Shallow Plenum LED Troffer
for DynaMax® System



For compatible lighting details,
visit vode.com/dynamax



ZipTwo® Data Center Solutions



TechLine 877 276-7876
armstrongceilings.com/datacenter

Armstrong®
World Industries

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COMMON MATERIALS FRAMEWORK

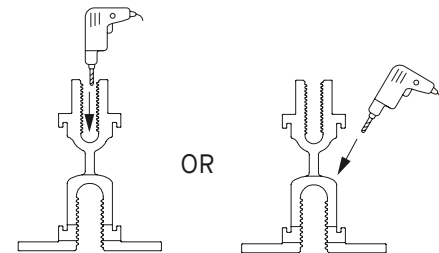
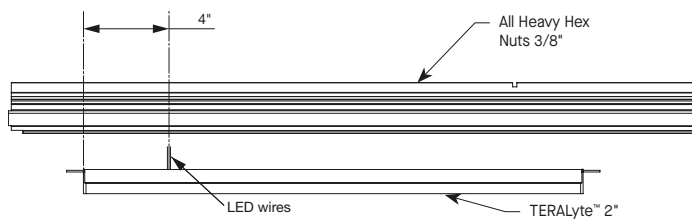
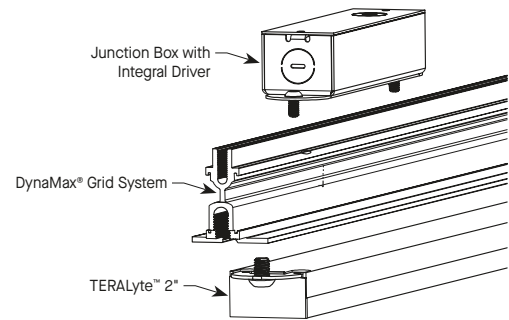
Human Health	Declare Label	Climate Health	EPD
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	3rd Party CDPH	Circular Economy	✓

Well Building Standard™ (WELL)
Living Building Challenge® (LBC)

LIGHTING PARTNERS (CONTINUED)



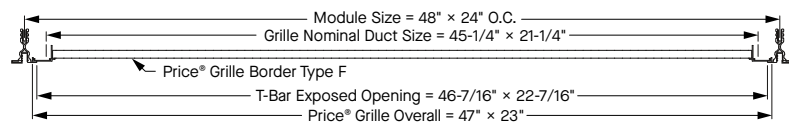
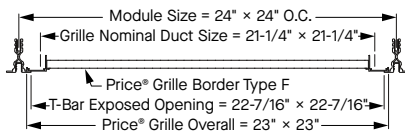
For compatible lighting details,
visit jlc-tech.com



MEP PARTNER



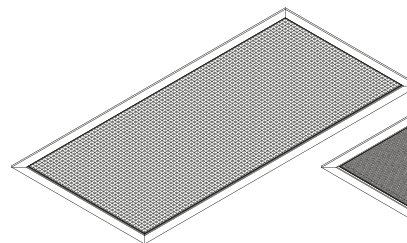
For compatible diffuser details,
visit priceindustries.com/diffusers



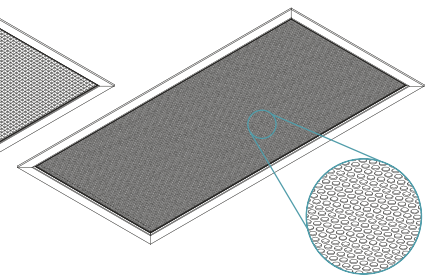
Eggcrate Air Device –
Price® Model 80 Border F



Perforated Air Device –
Price® Model 10 Border F



Eggcrate Air Device –
Price® Model 80 Border F



Perforated Air Device –
Price® Model 10 Border F

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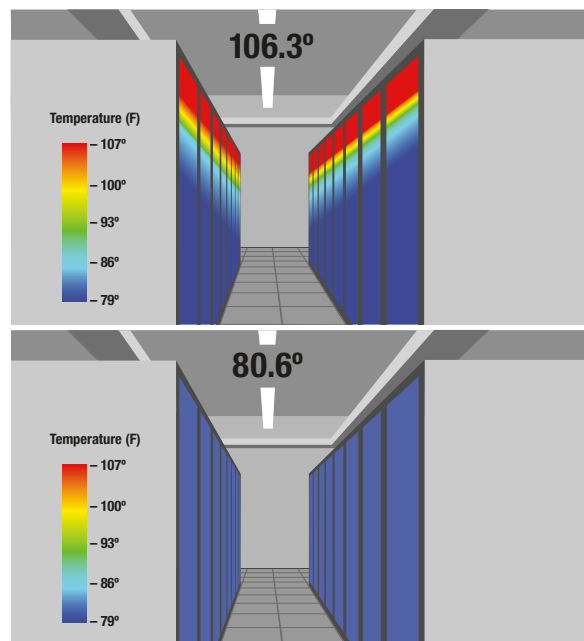
EPD

Circular Economy

✓

Well Building Standard™ (WELL)
Living Building Challenge® (LBC)

TEMPERATURE AND PRESSURE CONTROL ADVANTAGES



DynaMax structural grid systems provide increased pressure management, reduced leakage, and enables the best hot and cold air containment at the ceiling plane when compared to other ceiling types.

Unlike drilled hole or slotted strut ceilings, the integration of DynaMax grid and Armstrong® Ceiling Panels keeps ceiling planes closed for improved pressure and temperature control where it matters most, such as data center halls.

A 2021 Computational Fluid Dynamics (CFD) simulation showed that, on average, the top of data center cabinet equipment is approx. 26°F warmer when a slotted strut ceiling (top left) is in place and approx. 6°F warmer with drilled hole ceiling (not shown) than with the DynaMax structural grid systems (bottom left).



Ceiling Panels for DYNAMAX® LT Square Lay-in



Declare.

RECYCLED
CONTENT

UP TO
87%

LEED V5

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COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓



DataZone™ panels with DynaMax® suspension system

Ceiling panels for DynaMax are specifically designed for performance, reliability, and sustainability in data center and critical application environments.

KEY SELECTION ATTRIBUTES

DataZone™ and Ultima® AirAssure® for DynaMax®

- DataZone and Ultima AirAssure panels are part of the Sustain® portfolio, and meet the most stringent industry sustainability compliance standards today
- Get total noise control and floor plan versatility with Total Acoustics® ceiling panels: NRC + CAC = Total Acoustics performance
- Smooth, clean, durable finish – Washable, Impact-resistant, scratch-resistant, and soil-resistant
- Mold- and mildew-resistant surface
- 30-Year Limited System Warranty against visible sag, mold, and mildew
- Made in the U.S.A. of domestic and global content
- Build America, Buy America (BABA) Act compliant

Ultima® AirAssure® for DynaMax®

- Factory gasketed Ultima® AirAssure® panels for DynaMax®, DynaMax® LT, and DynaMax® Plus grid reduces air leakage and contributes to annual energy savings

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

COLORS Due to printing limitations, shade may vary from actual product.

Painted

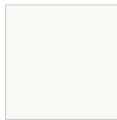
DataZone™ for DynaMax®



White
(WH)

Black
(BK)

Ultima® AirAssure® for DynaMax®



White
(WH)

DETAILS



1. DataZone™ for DynaMax®
2. Ultima® AirAssure® for DynaMax®



Ceiling Panels for DYNAMAX® LT

Square Lay-in



RECYCLED
CONTENT

UP TO
87%

LEED V5

Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓
OCCUPANT EXPERIENCE		Acoustics	✓

Declare.

VISUAL SELECTION

Edge Profile	Item No.	Dimensions (Inches)
DataZone™ for DYNAMAX®	1508	23-1/4 × 23-1/4 × 3/4"
Square Lay-in	1508BK	23-1/4 × 23-1/4 × 3/4"
	1509	23-1/4 × 47-1/4 × 3/4"
	1509BK	23-1/4 × 47-1/4 × 3/4"
	1566	23-1/4 × 23-1/4 × 3/4"
	1566BK	23-1/4 × 23-1/4 × 3/4"
	1567	23-1/4 × 47-1/4 × 3/4"
	1567BK	23-1/4 × 47-1/4 × 3/4"
	1568	47-1/4 × 47-1/4 × 1"
ULTIMA® AirAssure® for DYNAMAX	1599	23-1/4 × 23-1/4 × 3/4"
Square Lay-in	1638	23-1/4 × 47-1/4 × 3/4"

PERFORMANCE

Dots represent high level of performance.

Sound Absorption	Sound Blocking	Total Acoustics ¹	Fire Performance	Light Reflect*	Bio-Block	Humi-Guard+	Certified Low VOC Emissions	Durability	Recycled Content	Recycle Program	30-Yr Warranty
NRC	CAC	NRC CAC	Class								
0.75	35	BETTER	Class A	0.82	*	*	*	Std	*	*	*
0.75	35	BETTER	Class A	N/A	*	*	*	Std	*	*	*
0.75	35	BETTER	Class A	0.82	*	*	*	Std	*	*	*
0.75	35	BETTER	Class A	N/A	*	*	*	Std	*	*	*
0.90	N/A	N/A	Class A	0.82	*	*	*	Std	*	*	*
0.90	N/A	N/A	Class A	N/A	*	*	*	Std	*	*	*
0.90	N/A	N/A	Class A	0.82	*	*	*	Std	*	*	*
0.90	N/A	N/A	Class A	N/A	*	*	*	Std	*	*	*
0.90	N/A	N/A	Class A	0.82	*	*	*	Std	*	*	*
0.75	35	BETTER	Class A	0.88	*	*	*	*	*	*	*
0.75	35	BETTER	Class A	0.88	*	*	*	*	*	*	*

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.

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+)

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Structural Aluminum Suspension System



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Ecomedes Data

COMMON MATERIALS FRAMEWORK

Human Health	Declare Label	Climate Health	EPD
	HPD	Ecosystem Health	EPD
	3rd Party CDPH	Circular Economy	✓

Well Building Standard™ (WELL)
Living Building Challenge® (LBC)



DynaMax® LT with DataZone™ Square Lay-in Panels

PHYSICAL DATA FOR DYNAMAX® SUSPENSION SYSTEMS

Material
Aluminum

Surface Finish
Baked polyester paint or powder-coated
Manufactured and tested in accordance
with ASTM C635 and E3090

Face Dimension
1.560"

Profile
Exposed tee

Cross Tee/Main Beam Interface
Override

End Detail

Main Beam: Butt cut
Cross Tee: Override

Duty Classification
Heavy-duty

System Weight
2' x 2' - 0.84 LBS/SF
2' x 4' - 0.62 LBS/SF

PHYSICAL DATA FOR DATAZONE™ AND ULTIMA® AIRASSURE® CEILING PANELS

Material

Wet-formed mineral fiber with DuraBrite® acoustically
transparent membrane and polyethylene foam
(Items 1599 and 1638)

Wet-formed mineral fiber with acoustically
transparent membrane (Items 1508, 1508BK, 1509, 1509BK,
1564, 1564BK, 1565, and 1565BK)

Fiberglass with DuraBrite® acoustically transparent
membrane (Items 1566, 1566BK, 1567, 1567BK, and 1568)

Surface Finish

Acoustically transparent membrane with
factory-applied latex paint

DuraBrite scrim with factory-applied latex paint
(Items 1599, 1638, 1566, 1566BK, 1567, 1567BK, and 1568)

Fire Performance

Class A: ASTM E84 and CAN/ULC S102 surface burning
characteristics. Flame Spread Index of 25 or less.
Smoke Developed Index of 50 or less (UL® labeled).

ASTM E1264 Classification

Type A, Form A2.2, Pattern E; Fire Class A
(Items 1599 and 1638)

Type A, Form A2.2, Pattern G; Fire Class A
(Items 1508, 1508BK, 1509, 1509BK, 1564, 1564BK,
1565, and 1565BK)

Type B, Form B2, Pattern G; Fire Class A
(Items 1566, 1566BK, 1567, 1567BK, and 1568)

Humidity/Sag Resistance

HumiGuard® Plus ceiling panels are recommended for areas
subject to high humidity, up to, but not including, standing
water and outdoor applications.

Anti-Mold/Mildew

Ceiling tiles with BioBlock® performance resist the growth of
mold and mildew on the tile surface.

VOC Emissions

Third-party certified compliant with California Department of
Public Health CDPH/EHLB/Standard Method Version 1.2, 2017.
This standard is the guideline for low emissions in LEED®, WELL
Building Standard®, Living Building Challenge® (LBC), CalGreen
Title 24, ANSI/ASHRAE/USGBC/IES Standard 189; ANSI/GBI
Green Building Assessment Protocol.

High Recycled Content

Contains greater than 50% total recycled content. Total recycled
content based on product composition of post-consumer and
pre-consumer (post-industrial) recycled content per FTC.

Insulation Value

1508, 1508BK, 1509, 1509BK, 1599, and 1638:
R Factor - 2.2 (BTU units); R Factor - 0.39 (Watts units)
1566, 1566BK, 1567, 1567BK, and 1568:
R Factor - 4.0 (BTU units); R Factor - 0.7 (Watts units)

30-Year Performance Guarantee & Warranty

When installed with Armstrong® Suspension System.
Details at armstrongceilings.com/warranty

Weight; Square Feet/Carton

1508, 1508BK, 1509, 1509BK - 1.08 LBS/SF; 48 SF/CTN
1566 - 0.44 LBS/SF; 90.09 SF/CTN
1566BK - 0.44 LBS/SF; 45.05 SF/CTN
1567, 1567BK - 0.44 LBS/SF; 91.55 SF/CTN
1568 - 0.44 LBS/SF; 93 SF/CTN
1599 - 1.08 LBS/SF; 12 PCS/CTN; 44 SF/CTN
1638 - 1.08 LBS/SF; 6 PCS/CTN; 44 SF/CTN

Minimum Order Quantity
1 carton

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armstrongceilings.com/datacenter
BPCS-7400-1025

Armstrong®
World Industries

SUSPENSION SYSTEMS – DATA CENTERS

