

Technical Guide

DynaMax[®]

Structural Aluminum Suspension System

Hang Tough

Meet DynaMax® Structural Grid

DynaMax[®] is a structural aluminum suspension system that serves as both a ceiling system and structural component by providing a suspension or attachment platform for cable trays, equipment, partitions and containment barriers while eliminating penetrations in the ceiling system.

For years, the typical construction method for data centers was to have a structural system, like slotted strut, to suspend heavy loads, then an acoustical ceiling to contain air flow and protect the equipment from debris. We have combined these two needs into one with the DynaMax suspension system. Our design provides strength, flexibility, construction efficiencies, and faster, easier installation.

Suspension Systems Code Compliance You Can Trust

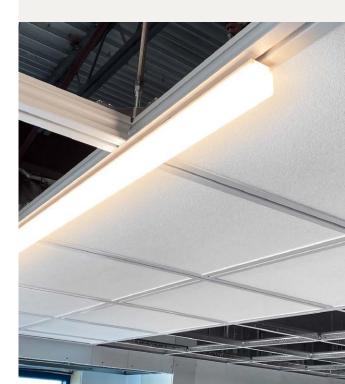
Meets:

- ASTM C635
- ASTM C636

Seismic D, E, F configurations available



- ICC-ES AC156





DynaMax® Structural Grid Data Center Installation

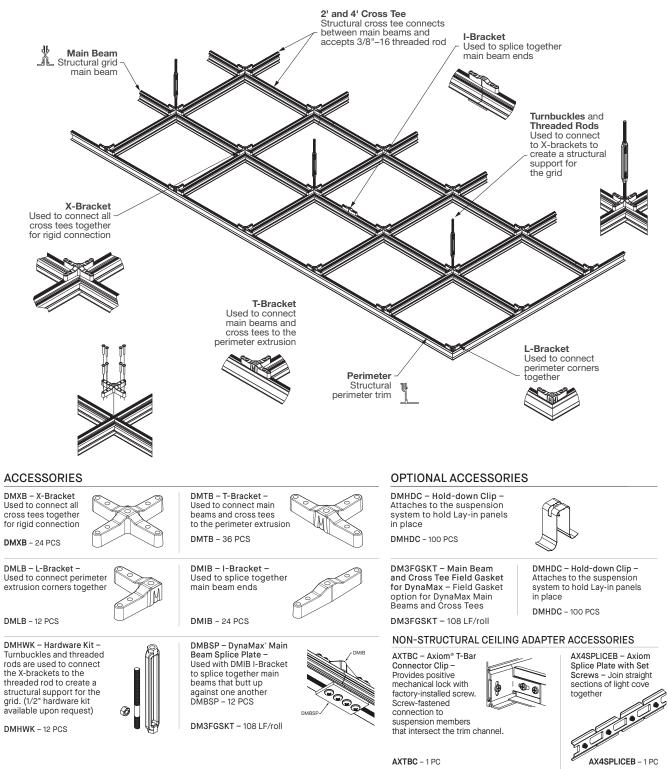
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How the System Works

For additional information and technical guidelines, contact TechLine at 877 276-7876 and select prompts 1-2-3.



Suspension System Components

This fully accessible and flexible system allows you to support heavy point loads to provide a solution for various ceiling applications and requirements.

Key Selection Attributes

- Ideal combination of a finished ceiling system with a structural solution
- 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
- Easy integration into a conventional grid system using AXTBC clip and DynaMax[®] boss channels
- DynaMax suspension systems can integrate seamlessly with select Armstrong[®] ceiling panels for a complete ceiling system solution
- Supports up to a 1200 lb. point load rating using 3/8"-16 threaded rod at 48" × 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
- · Controls airflow by eliminating penetrations
- Available in 24" × 24", 24" × 48" and 48" × 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

VISUAL SELECTION

- 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 installed on DynaMax grid provide attachment points for 48" × 48" suspension from building structure
- DynaMax 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
- Now available with MetalWorks[™] ceiling panels
- Lighting, diffuser, and containment options are available from our Data Center lighting and MEP partners

Ceiling 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. For custom layout information and technical guidelines, contact TechLine customer support at 877 276-7876

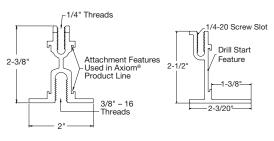


DynaMax Structural Aluminum Data Center Suspension System

Item No.	Description	Dimensions (Inches)	PCS/ CTN	LF/ CTN
DynaMax Structural				
DM4301	Main Beam	144 × 2 × 2-3/8"	4	48
DM4340	4' Cross Tee	48 × 2 × 2-3/8"	12	48
DM4320	2' Cross Tee	24 × 2 × 2-3/8"	12	24
DM4800	Perimeter Molding	144 × 2-1/8 × 2-1/2"	4	48

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

DETAILS



LOAD DATA FOR DYNAMAX SUSPENSION SYSTEMS

Member Span and Spacing (inches)	48"	60"	72"
Maximum Allowable Uniform Area Load (LBS/SF)	75	48	33.3
Mid-Span Point Load @ L/360 Deflection (LBS)	320	200	140
Maximum Static Point Load (LBS)	1200	1200	1200
Turnbuckle Maximum Load to Structure (LBS)	1200	1200	1200

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

DynaMax Main Beam

DM4800 Perimeter Molding

Recommended Ceiling Panels

VISUAL SELECTION

PERFORMANCE SELECTION Dots represent high level of performance

			Sound Absorption	Sound Blocking	Total Acoustics1	Articulation Class	Fire Performance	Light Reflect	Mold & Mold & Mildew Protection	Sag Resistant Resistant	Certified Low VOC Emissions	Durability	Recycled Con- tent	Recycle Program	30-Yr Warranty
Edge Profile	ltem No.	Dimensions (Inches)			NRC + CAC	AC(T	٨		8						
FINE FISSURED [™] for DynaMax [®] Square Lay-in	4126	23-1/4 × 23-1/4 × 5/8"	0.55	35	N/A	N/A	Class A	0.82	·	•	•	Std	Std	•	•
	4126BL (Black)	23-1/4 × 23-1/4 × 5/8"	0.55	35	N/A	N/A	Class A	N/A	·	•	•	Std	Std	•	•
	4127	23-1/4 × 47-1/4 × 5/8"	0.55	35	N/A	N/A	Class A	0.82	•	•	•	Std	Std	•	•
	4127BL (Black)	23-1/4 × 47-1/4 × 5/8"	0.55	35	N/A	N/A	Class A	N/A	•	•	•	Std	•	•	•
CALLA® for DynaMax®	2896	23-1/4 × 23-1/4 × 1"	0.85	35	BEST	170 •	Class A	0.85	·	•	•	•	•	•	•
Square Lay-in	2896BK (Black)	23-1/4 × 23-1/4 × 1"	0.85	35	BEST	170 •	Class A	N/A	·	•	•	•	•	•	•
	2897	23-1/4 × 47-1/4 × 1"	0.85	35	BEST	170 •	Class A	0.85	·	•	•	•	•	•	•
	2897BK (Black)	23-1/4 × 47-1/4 × 1"	0.85	35	BEST	170 •	Class A	N/A	·	•	•	•	•	•	•
DUNE [®] for DynaMax [®]	4270	23-1/4 × 23-1/4 × 5/8"	0.50	35	N/A	N/A	Class A	0.81	·	•	•	•	•	•	•
Square Lay-in	4271	23-1/4 × 47-1/4 × 5/8"	0.50	35	N/A	N/A	Class A	0.81	•	•	•	•	•	•	•
ULTIMA® for DynaMax®	1807	23-1/4 × 23-1/4 × 3/4"	0.75	35	BETTER	170 •	Class A	0.88	·	•	•	•	•	•	•
Square Lay-in	1808	23-1/4 × 47-1/4 × 3/4"	0.75	35	BETTER	170 •	Class A	0.88	·	•	•	•	•	•	•
ULTIMA® AirAssure™ for DynaMax®	1599	23-1/4 × 23-1/4 × 3/4"	0.75	35	BETTER	N/A	Class A	0.88	·	•	•	•	•	•	•
Square Lay-in	1638	23-1/4 × 47-1/4 × 3/4"	0.75	35	BETTER	N/A	Class A	0.88	•	•	•	•	·	·	•
OPTIMA® PB for DynaMax® Square Lay-in	3210PB	47-5/16 × 47-5/16 × 1"	0.95	N/A	N/A	190 •	Class A	0.88		•	•	•	•	•	•

NOTE: These 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.

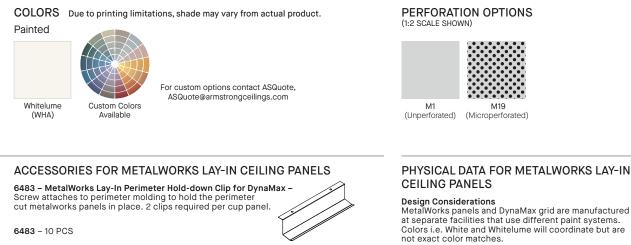
Factory gasketing is available upon request.

¹ Total Acoustics[®] ceiling panels have an ideal combination of noise reduction and sound-blocking performance in one product.

MetalWorks[™] Lay-in for DynaMax[®]

VISUAL SELE	VISUAL SELECTION PERFORMANCE SELECTION Dots represent high level of performance										
				Sound Absorption	(with infil panel) Apsorption* Apsorption	- Fire Performance	Light Reflect	Mold & Mold & Mold & Mold & Moldew Protection	Certified Low VOC Emissions	Durability	Recycled Content
Edge Profile	Perforation		Dimensions (Inches)	NRC	NRC	3		8			
METALWORKS for DynaMax®	new new	6345W24L48M1WHA	23" × 47"	N/A	N/A	Class A	0.75	·	•	•	•
Square Lay-in	M1 (Unperforated)										
	new	6345W48L48M1WHA	47" × 47"	N/A	N/A	Class A	0.75	·	•	·	•
	M19	6345W24L48M19WHA	23" × 47"	0.70 •	0.85 •	Class A	0.75	·	•	•	•
	new .	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. * NRC achieved with acoustical infill (Item 8200T10).



8200T10 - 1" Fiberglass Infill Bag -24 × 24 × 1" Color – Black (gloss)

8200T10 - 12 PCS



PHYSICAL DATA FOR METALWORKS LAY-IN

at separate facilities that use different paint systems. Colors i.e. White and Whitelume will coordinate but are not exact color matches.

Material

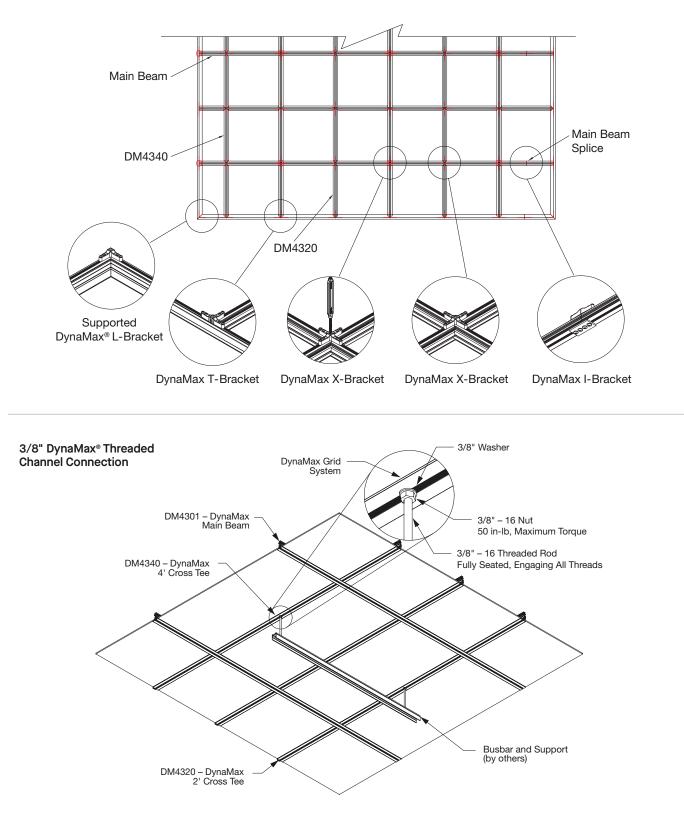
All MetalWorks panels: Aluminum - 0.064"

Warranty

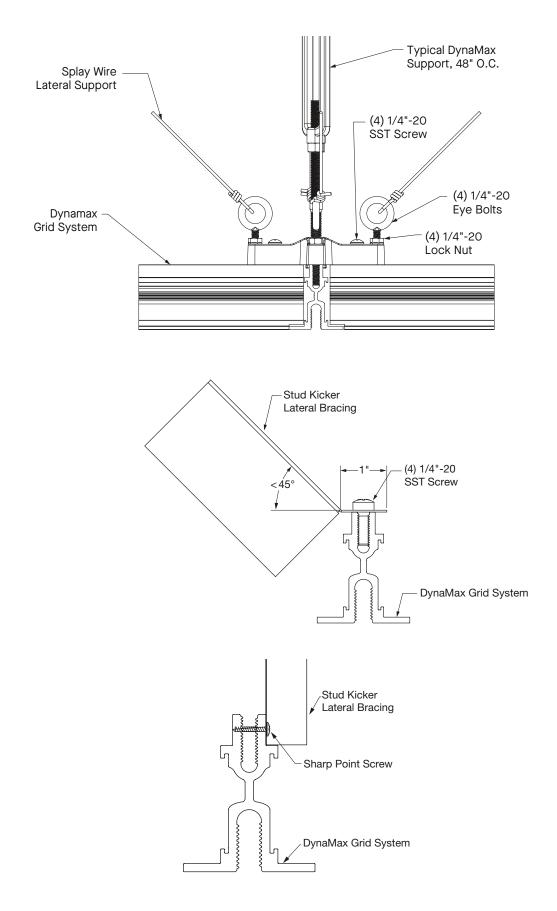
One (1) year limited warranty for MetalWorks items. Details at armstrongceilings.com/warranty.

Installation & Layout Overview

Installation



Seismic Considerations



Section Properties

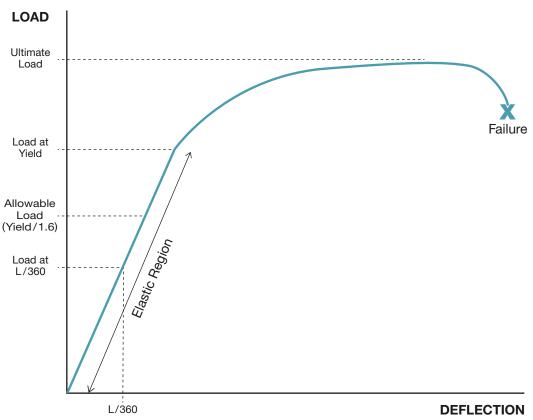
Find the full installation instructions HERE.

DynaMax[®] Section Properties

Area	Weight	Yield Strength	Modulus of Elasticity	Moment of Inertia	Radius of Gyration	Moment of Inertia	Radius of Gyration	Section Modulus	Maximum Bending Moment
Ab	Wb	Fy	E	lx	Rx	ly	Ry	Scx	[M]
(in2)	(lbs/ft)	(ksi)	(lbs/in2)	(in4)	(in)	(in4)	(in)	(in3)	(ft-lb)
0.950	1.117	21.0	1.00E+07	0.5545	0.7641	0.1193	0.3544	0.3986	698

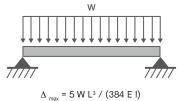
General Notes:

- 1 The data contained in this technical guide is intended to be used as a general guideline only and does not replace the design of a qualified engineer.
- 2 The load tables in this technical guide are calculated conservatively as single span (simple) beams supported at the ends.
- 3 The 'Load at Yield' is calculated as the maximum bending moment for each loading condition. The 'Allowable Load' is calculated by dividing the maximum bending moment by a safety factor of 1.67.
- 4 It is recommended that the DynaMax system is designed to limit the deflection of loaded members to L/360 of the span.
- 5 Load supported by DynaMax support brackets must not exceed the allowable load of 1200 lbs.



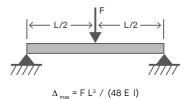
Load vs. Deflection Plot

DynaMax[®] Structural Aluminum Suspension System supports up to a 1200 lb. single point load rating using 3/8" threaded rod at 4' × 4' connection points assuming loads applied under threaded rod support brackets. For even greater load-carrying capability, consider DynaMax[®] Plus Structural Grid System—a structural solution that can suspend mid-span loads of up to 1,090 lbs. at L/360 (up to 1800 lbs. for static point loads).



 $M_{max} = W L^2 / 8$

	Uniform Load, W (lb/ft)									
Span (in)	Load at	Deflectio	n Limit L/360	Allowable	Load at Yield					
24	_	_	_	832	1390					
36	_	_	300	371	620					
48	_	_	120	204	340					
60	130	90	60	132	220					
72	70	50	30	90	150					
84	40	30	20	66	110					
96	30	20	10	48	80					



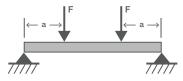
 $M_{max} = FL / 4$

	Mid-Span Point Load, F (lb)									
Span		at Deflect	1	Allowable	Load at					
(in)	L/180	L/240	L/360	Load	Yield					
24	_	—	—	832	1390					
36	_	_	—	557	930					
48	_	—	320	413	690					
60	_	300	200	329	550					
72	_	210	140	275	460					
84	200	150	100	234	390					
96	160	120	80	204	340					

Main Beam		Uniform Area Load (lb/sq ft)							
Spacing (ft)	Span (in)	L/180	L/240	L/360	Allowable Load				
	48	_	_	60.0	101.7				
	60	65.0	45.0	30.0	65.8				
2	72	35.0	25.0	15.0	44.9				
	84	20.0	15.0	10.0	32.9				
	96	15.0	10.0	5.0	23.9				
	48	_	_	30.0	50.8				
	60	32.5	22.5	15.0	32.9				
4	72	17.5	12.5	7.5	22.4				
	84	10.0	7.5	5.0	16.4				
	96	7.5	5.0	2.5	11.9				

Main Beam			Uniform Area Load (lb/sq ft)						
Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Allowable Load			
	48	8	—	—	40.0	51.6			
2	60	10	_	30.0	20.0	32.9			
	72	12	_	17.5	11.6	22.9			
	84	14	14.2	10.7	7.1	16.6			
	96	16	10.0	7.5	5.0	12.7			
	48	16	_	—	20.0	25.8			
	60	20	_	15.0	10.0	16.4			
4	72	24	_	8.7	5.8	11.4			
	84	28	7.1	5.3	3.5	8.3			
	96	32	5.0	3.7	2.5	6.3			

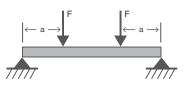
LOAD DATA



 Δ_{max} = (F a / (24 E I)) · (3 L² - 4 a²)

M_{max} = F a

		Dual Point Load at 1/4 Points, F (lb)							
Span	Point Loading Location.	Loading at Deflection Limit			Allowable	Load at			
(in)	a (in)	L/180	L/240	L/360	Load	Yield			
24	6	_	_	_	832	1390			
36	9	_	—	410	557	930			
48	12	_	350	230	413	690			
60	15	290	220	140	329	550			
72	18	200	150	100	275	460			
84	21	150	110	70	234	390			
96	24	110	80	50	204	340			

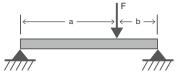


 $\Delta_{max} = (F a / (24 E I)) \cdot (3 L^2 - 4 a^2)$ $M_{max} = F a$

		Dual Point Load at 1/8 Points, F (Ib)							
Span	Point Loading Location.	Loadir	ng at Defl Limit	Allowable	Load at				
(in)	a (in)	L/180	L/240	L/360	Load	Yield			
24	3	_	—	_	1200	2790			
36	4.5	_	_	770	1114	1860			
48	6	_	650	430	832	1390			
60	7.5	550	410	270	665	1110			
72	9	380	290	190	557	930			
84	10.5	280	210	140	473	790			
96	12	210	160	100	413	690			

Main Beam			Uniform Area Load, (lb/sq ft)				
Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Allowable Load	
	48	8	—	87.4	57.4	103.2	
	60	10	58.0	44.0	28.0	65.8	
2	72	12	44.0	25.0	16.6	45.8	
	84	14	25.0	15.6	10.0	33.2	
	96	16	21.4	10.0	6.2	25.4	
	48	16	—	43.6	28.6	51.6	
	60	20	29.0	22.0	14.0	32.8	
4	72	24	16.6	12.4	8.2	22.8	
	84	28	10.6	7.8	5.0	16.6	
	96	32	6.8	5.0	3.0	12.6	

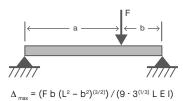
Main Beam			Uniform Area Load, (lb/sq ft)					
Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Allowable Load		
	48	8	—	162.4	107.4	208.0		
	60	10	110.0	82.0	54.0	132.8		
2	72	12	63.2	48.2	31.6	92.8		
	84	14	40.0	30.0	20.0	67.4		
	96	16	26.2	20.0	12.4	51.6		
	48	16	—	81.2	53.6	104.0		
	60	20	55.0	41.0	27.0	66.4		
4	72	24	31.6	24.0	15.8	46.4		
	84	28	20.0	15.0	10.0	33.6		
	96	32	13.0	10.0	6.2	25.8		



 $\Delta_{\text{max}} = (F b (L^2 - b^2)^{(3/2))}) / (9 \cdot 3^{(1/3)} L E I)$

M_{max} = F a b / L

	Point	Point Load within 3" of Support, F (Ib)					
Span	Loading Location,	Loading a	at Deflect	Chart	Load at		
(in)	b (in)	L/180	L/240	L/360	A3	Yield	
24	3	_	_	—	1200	3180	
36	3	_	—	—	1200	3040	
48	3	_	_	_	1200	2970	
60	3	—	—	—	1200	2930	
72	3	_	_	1110	1200	2910	
84	3	_	_	928	1200	2890	
96	3	_	—	830	1200	2880	

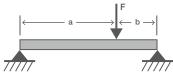


 $M_{max} = Fab/L$

	Point	Point Load within 6" of Support, F (lb)						
	Loading Location.	Loading	Loading at Deflection Limit			Load at		
Span (in)	b (in)	L/180	L/240	L/360	Chart A3	Yield		
24	6	—	_	_	1114	1860		
36	6	—	_	_	1000	1670		
48	6	_	_	850	952	1590		
60	6	—	—	670	928	1550		
72	6	_	840	560	910	1520		
84	6	—	720	480	898	1500		
96	6	830	620	410	886	1480		

Main			Uniform Area Load, (lb/sq ft)				
Beam Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Chart A3	
	48	8	_	—	_	150.0	
	60	10	_	—	_	120.0	
2	72	12	—	—	92.5	100.0	
	84	14	—	—	67.8	87.5	
	96	16	—	_	51.8	75.0	
	48	16	—	—	_	75.0	
	60	20	—	—	—	60.0	
4	72	24	_	_	46.2	50.0	
	84	28	_	_	33.9	42.8	
	96	32	_	_	25.9	37.5	

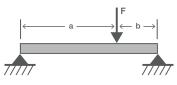
Main			Uniform Area Load, (lb/sq ft)				
Beam Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Chart A3	
	48	8	_	_	106.2	119.0	
	60	10	—	_	67.0	92.8	
2	72	12	_	70.0	46.6	75.8	
	84	14	_	51.4	34.2	64.1	
	96	16	51.8	38.7	25.6	55.3	
	48	16	_	_	53.1	59.5	
	60	20	_	_	3.5	46.4	
4	72	24	_	35.0	23.3	37.9	
	84	28	_	25.7	17.1	32.0	
	96	32	25.9	19.3	12.8	27.6	



 $\Delta_{max} = (F b (L^2 - b^2)^{(3/2)}) / (9 \cdot 3^{(1/3)} L E I)$

 M_{max} = F a b / L

	Point	Point Load within 12" of Support, F (lb)					
	Loading Location.	Loading	Loading at Deflection Limit			Load at	
Span (in)	b (in)	L/180	L/240	L/360	Allowable Load	Yield	
24	12	—	_	_	832	1390	
36	12	_	—	_	623	1040	
48	12	—	—	450	557	930	
60	12	_	_	350	521	870	
72	12	—	430	280	497	830	
84	12	_	360	240	485	810	
96	12	420	320	210	473	790	



 $\Delta_{max} = (F b (L^2 - b^2)^{(3/2)}) / (9 \cdot 3^{(1/3)} L E I)$

 $M_{max} = F a b / L$

	Point	Point Load within 18" of Support, F (lb)						
	Loading Location.	Loading	at Deflect	ion Limit	Allowable	Load at		
Span (in)	,	L/180	L/240	L/360	Load	Yield		
24	18	—	_	—	_	_		
36	18	_	_	_	557	930		
48	18	_	_	340	443	740		
60	18	_	380	250	395	660		
72	18	_	300	200	371	620		
84	18	340	250	170	353	590		
96	18	290	210	140	341	570		

Main			Uniform Area Load, (lb/sq ft)				
Beam Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Allowable Load	
	48	8	_	_	56.2	69.6	
	60	10	_	_	35.0	52.0	
2	72	12	_	35.8	23.3	41.4	
	84	14	_	25.7	17.1	34.6	
	96	16	26.2	20.0	13.1	29.5	
	48	16	—	—	28.1	34.8	
	60	20	_	_	17.5	26.0	
4	72	24	_	17.9	11.6	20.7	
	84	28	_	12.8	8.5	17.3	
	96	32	13.1	10.0	6.5	14.7	

Main			Uniform Area Load, (lb/sq ft)					
Beam Spacing (ft)	Span (in)	Area (sq ft)	L/180	L/240	L/360	Allowable Load		
	48	8	_	—	42.5	55.3		
	60	10	_	38.0	25.0	39.5		
2	72	12	_	25.0	16.6	30.9		
	84	14	24.2	17.8	12.1	25.2		
	96	16	18.1	13.1	8.7	21.3		
	48	16	—	—	21.2	27.6		
	60	20	_	19.0	12.5	19.7		
4	72	24	—	12.5	8.3	15.4		
	84	28	12.1	8.9	6.0	12.6		
	96	32	9.0	6.5	4.3	10.6		

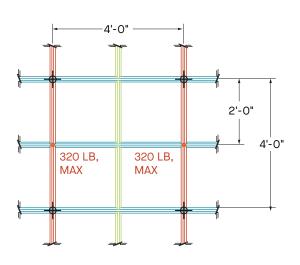
6"

6"

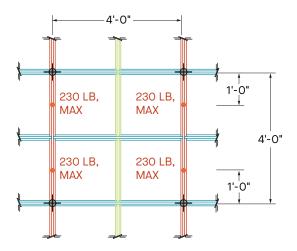
4'-0"

Loading Condition Examples

NOTE: Loading condition examples are shown with L/360 deflection.



4' × 4' Support Spacing Main Beam Mid-Span Loading



4' × 4' Support Spacing Main Beam Dual Point Loads at 1/4 Points

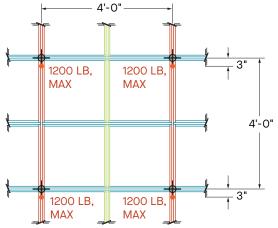
4'-0"

850 LB,

MAX

850 LB,

MAX



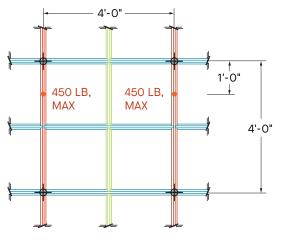
4' × 4' Support Spacing Main Beam Point Load within 3" of Support



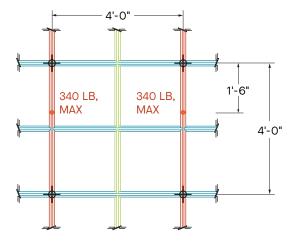


Loading Condition Examples

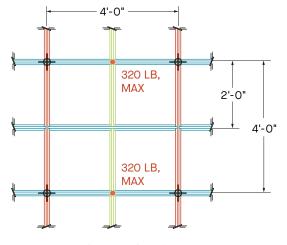
NOTE: Loading condition examples are shown with L/360 deflection



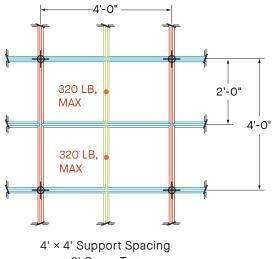
4' × 4' Support Spacing Main Beam Point Load within 12" of Support



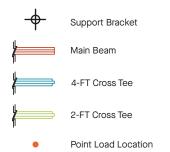
4' × 4' Support Spacing Main Beam Point Load within 18" of Support



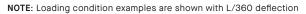
4' × 4' Support Spacing 4' Cross Tee Mid-Span Loading

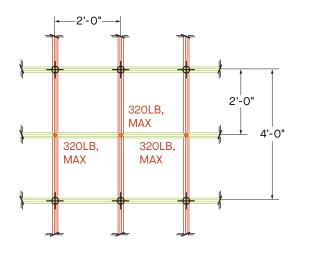


2' Cross Tee Mid-Span Loading

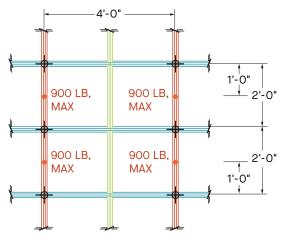


Loading Condition Examples

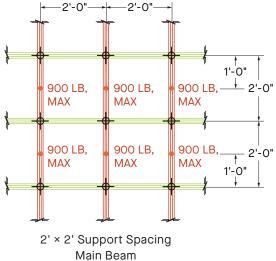


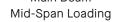


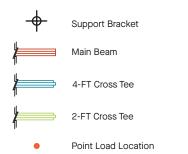
4' × 2' Support Spacing Main Beam Mid-Span Loading



2' × 4' Support Spacing Main Beam Mid-Span Loading





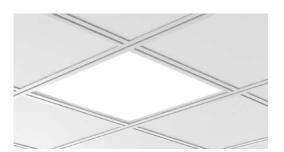


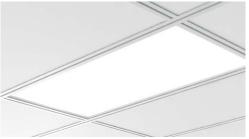
Integrated Lighting Partners

Lighting and diffuser solutions are available through partner companies.

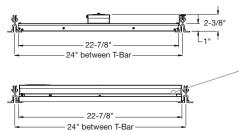


For compatible lighting details, visit axislighting.com

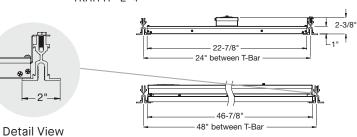




TRAYFIT[™] 2×2



TRAYFIT[™] 2×4

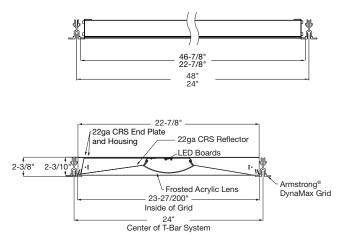




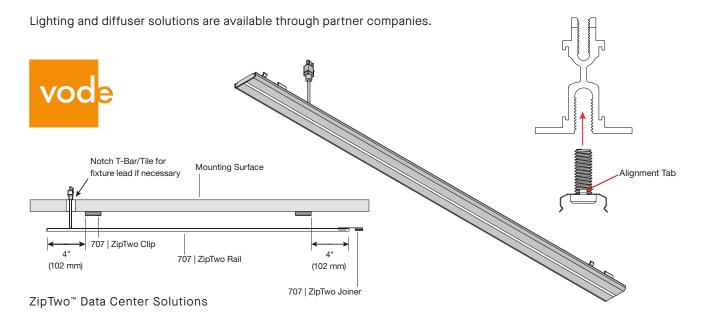
For compatible lighting details, visit hew.com/products/PTDC



PTDC - Shallow Plenum LED Troffer for DynaMax System



Integrated Lighting Partners

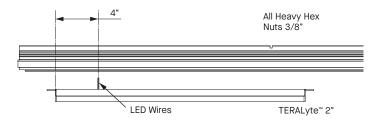


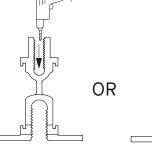
For compatible lighting details, visit vode.com/dynamax

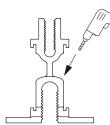


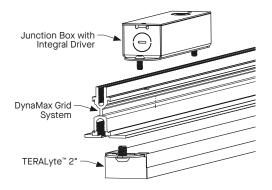


TERALyte[™] 2" for the DynaMax[®] grid system.



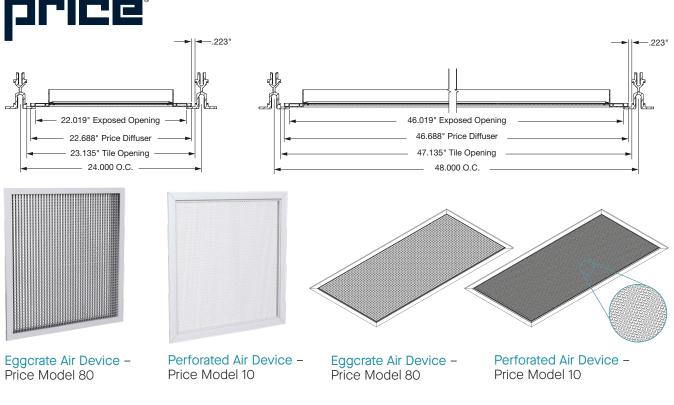






For compatible lighting details, visit jlc-tech.com

Integrated MEP Partners



For compatible diffuser details, visit priceindustries.com/diffusers

Air Containment Partner

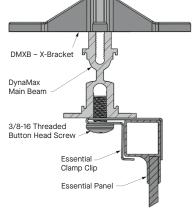


The Subzero Engineering and Armstrong World Industries partnership is the latest development in the portfolio expansion of data center products and services, seamlessly combining structural ceiling solutions with high performing and energy efficient air containment systems.

The Subzero Essential Clamp Clip (shown right) was designed specifically for integrating Subzero Essential Series Wall Panels with DynaMax® main beams. This provides easier attachment and improved installation efficiency.

For more data center containment details, visit subzeroeng.com





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