DynaMax® MD

Structural Aluminum Suspension System



Technical Guide

Armstrong®
World Industries

Hang Tough

Meet DynaMax® MD Structural Grid

DynaMax® MD 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 MD suspension system. Our design provides strength, flexibility, construction efficiencies, and faster, easier installation.





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About the System

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
- DynaMax suspension systems can 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
- Supports over 1,200 lb. point load rating using the DynaMax Load Adaptor Plate (DMLAK) and 1/2" hardware kit
- 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
- 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
- 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.



DynaMax MD Structural Aluminum Data Center Suspension System

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

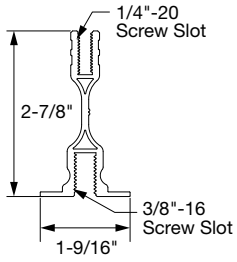
VISUAL SELECTION

PACKAGING

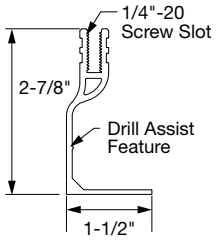
Item No.	Description	Dimensions (in.)	pcs./ctn.	ln. ft./ctn.
DynaMax LT Structural Aluminum Data Center Suspension System				
☐ DM5301	Main Beam	144 × 1-9/16 × 2-7/8"	4	48
☐ DM5320	2' Cross Tee	24 × 1-9/16 × 2-7/8"	12	24
☐ DM5340	4' Cross Tee	48 × 1-9/16 × 2-7/8"	12	48
☐ DM5340NC	4' Cross Tee - No Center Notch	48 × 1-9/16 × 2-7/8"	12	48
☐ DM5800	Perimeter Molding	144 × 1-1/2 × 2-7/8"	4	48

NOTE: Contact local engineer for job specific load and/or seismic requirements
For Gasketed items, add a GS after the item number (i.e. DM5301GS)

DETAILS



DynaMax MD Main Beam



DynaMax MD Perimeter Molding

LOAD DATA FOR DYNAMAX MD SUSPENSION SYSTEMS

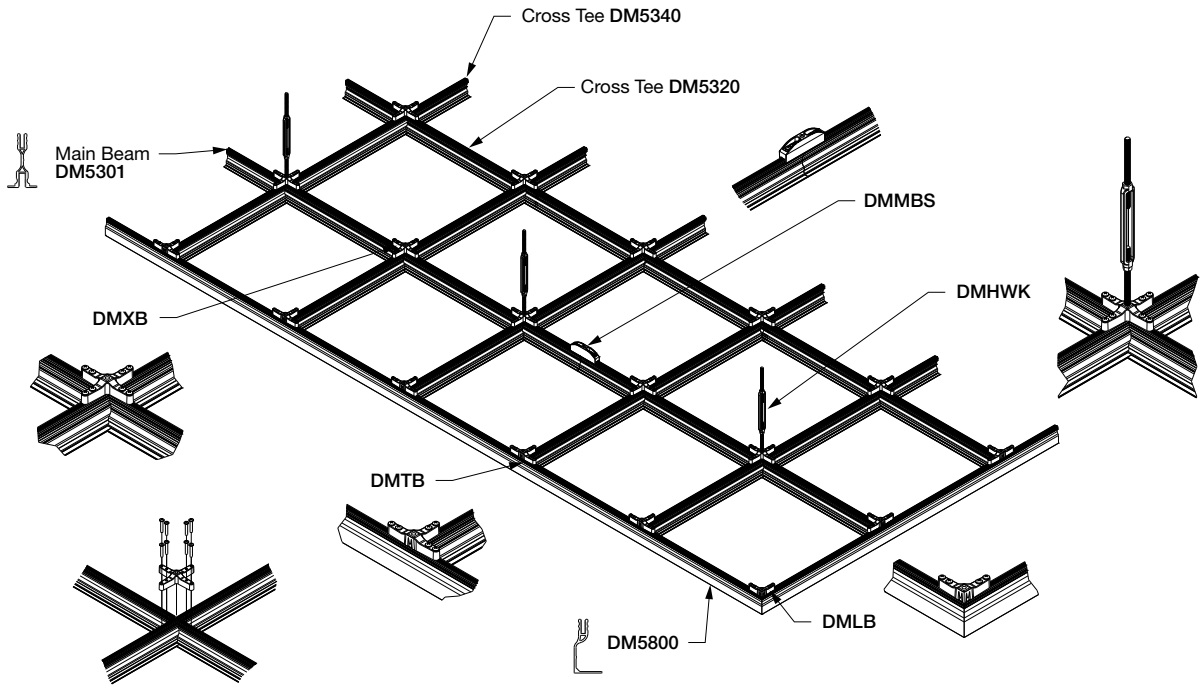
Member Span and Spacing (inches)	48"
Maximum Allowable Uniform Area Load (lbs./sq. ft.)	75
Maximum Allowable (Yield/1.67) Mid-Span Point Load (lbs.)	630
Maximum Allowable (Ultimate/2.00) Mid-Span Point Load (lbs.)	750
Mid-Span Point Load @ L/360 Deflection (lbs.)	383
Maximum Static Point Load (lbs.)	1,000
Turnbuckle Maximum Load to Structure (lbs.)	1,200

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

About the System

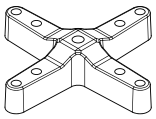
How the System Works

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



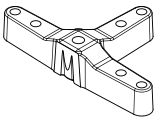
ACCESSORIES

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



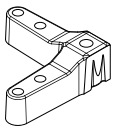
DMXB – 24 pcs.

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



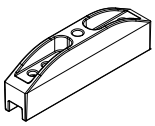
DMTB – 36 pcs.

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



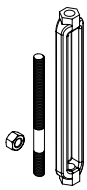
DMLB – 12 pcs.

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.

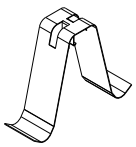


DMHWK – 12 pcs.

1/2" hardware kit available upon request.

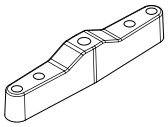
OPTIONAL ACCESSORIES

DMMDHDC – DynaMax MD Hold-Down Clip – Attaches to the suspension system to hold Lay-in panels in place



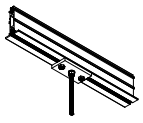
DMMDHDC – 100 pcs.

DMIB – I-Bracket – Used for supplemental hanging locations



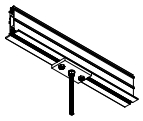
DMIB – 24 pcs.

DMLAK – Load Adaptor Plate – Bottom load plate for additional direct loads



DMLAK – 24 pcs.

DMLAK12 – Load Adaptor Plate 1/2" Rod – Bottom load plate for 1/2" rod for additional direct loads

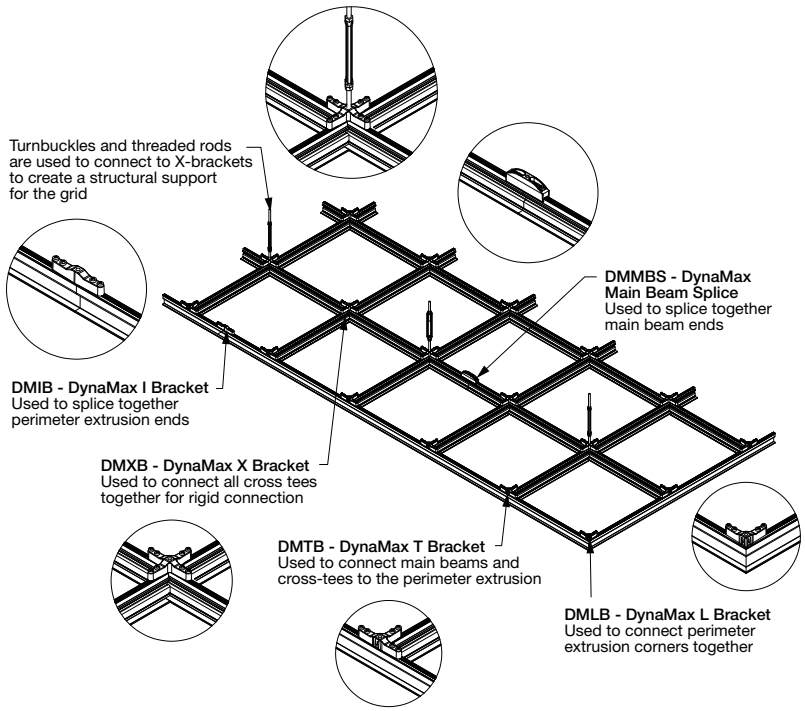


DMLAK12 – 24 pcs.

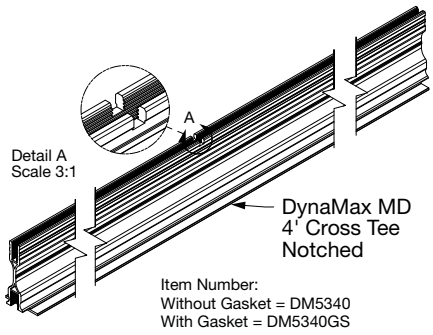
Notched vs. Unnotched Cross Tees

On 2' × 2' layouts, use a 4' cross tee that utilizes a center notch.

2' × 2' DynaMax MD Module Layout

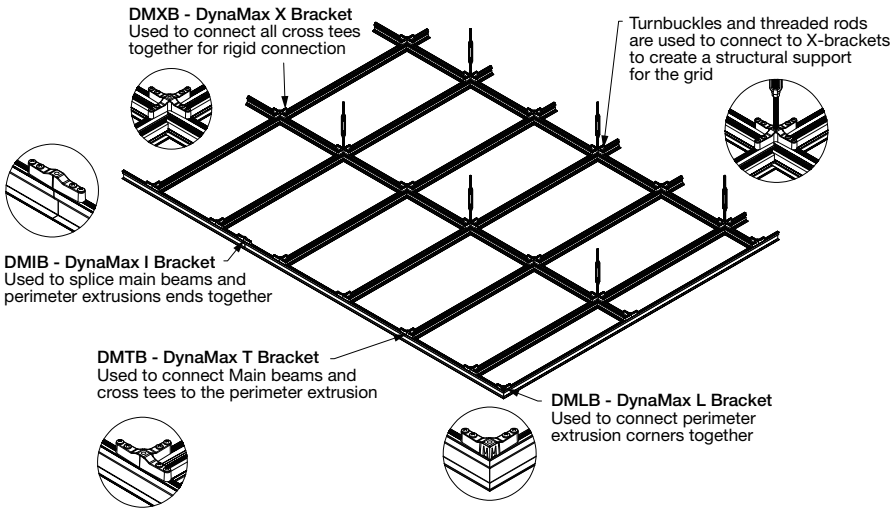


4' DynaMax MD Cross Tee: DM5340

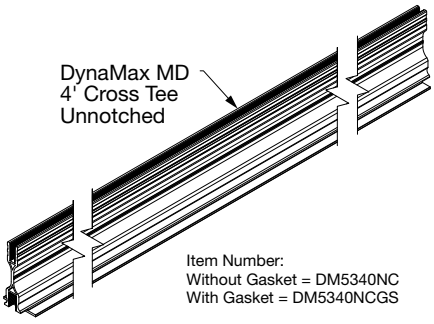


On 2' × 4' layouts, use a 4’ cross tee that **DOES NOT** have a center notch, since it’s not needed.

2' × 4' DynaMax MD Module Layout



4' DynaMax MD Cross Tee: DM5340NC



For 2' × 4' and 4' × 4' layouts, do not utilize center notch cross tees. We recommend a 4’ tee with the “NC” suffix.

Ceiling Panels for Dynamax®

Square Lay-in

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



DataZone™ panels with DynaMax® suspension system

KEY SELECTION ATTRIBUTES

DataZone™, Ultima® Templok®, and Ultima® AirAssure® for DynaMax®

- DataZone 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

Ultima® Templok® for DynaMax®

- Saves up to 15% energy*
- Provides 50 BTUs/SF of passive cooling*

MetalWorks™ for DynaMax®

- CleanAssure™ family of products – includes disinfectable panels, suspension systems, and trim
- Perforated panel option available to enhance acoustical performance and design aesthetics
- Outstanding NRC with acoustical fleece or infill panel (0.70 – 0.85)
- Provides additional options when bidding data centers and structural applications
- Factory-fit ceiling panels eliminate the need to field modify panels in all standard suspension layouts

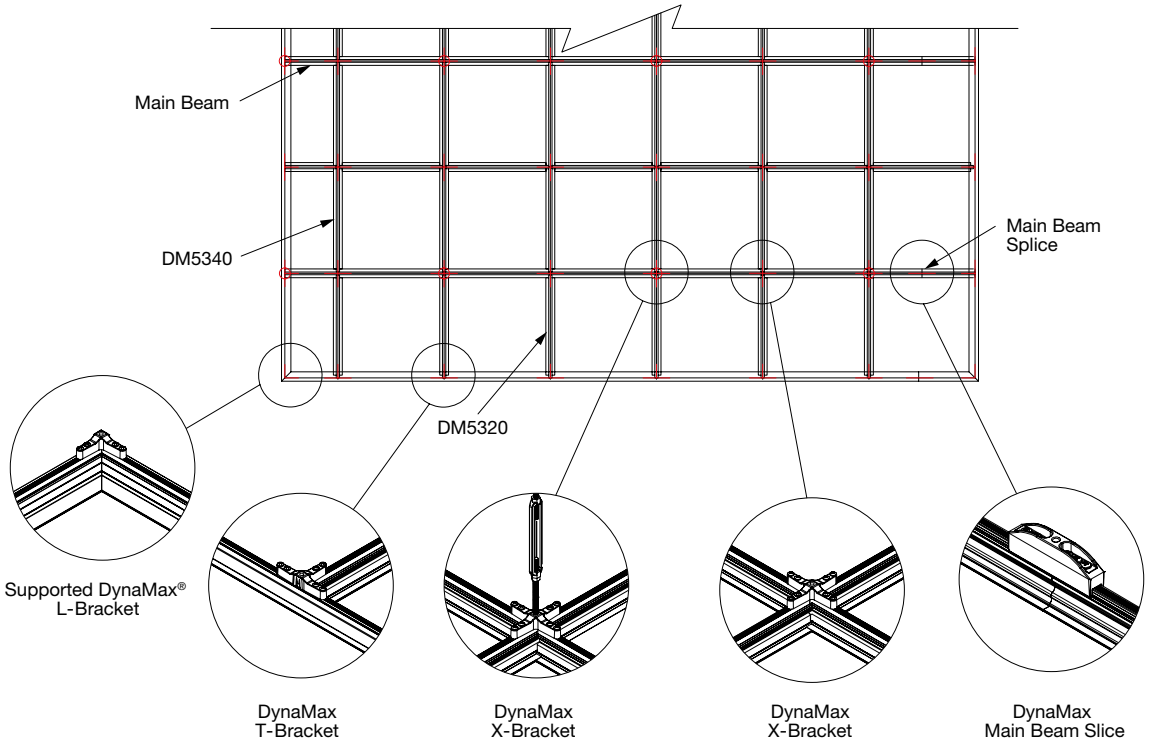
For more information about recommended ceiling panels, please visit **armstrong.com/structuralgrid**

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.

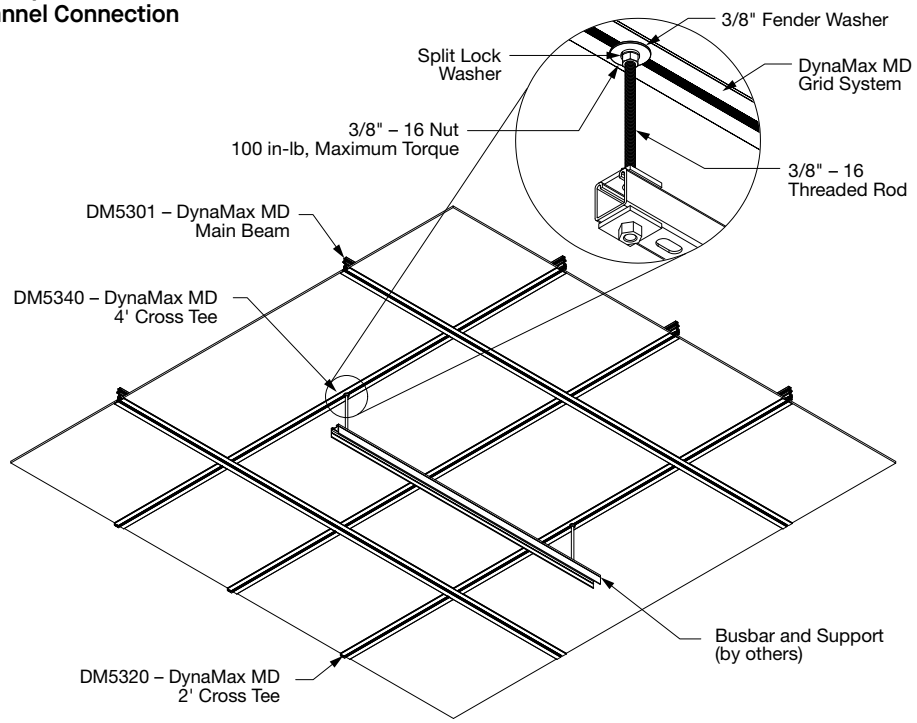
* Data measured in lab tests, building energy modeling software, and field installations. Results may vary.

Installation & Layout Overview

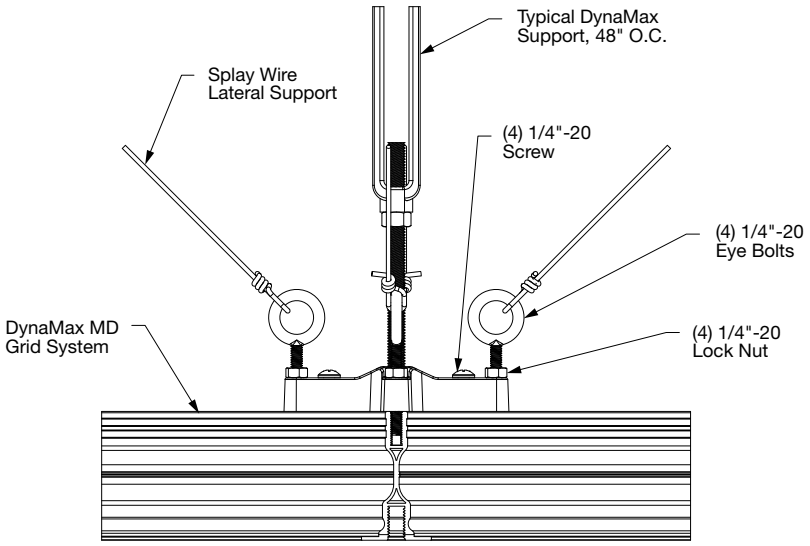
Installation

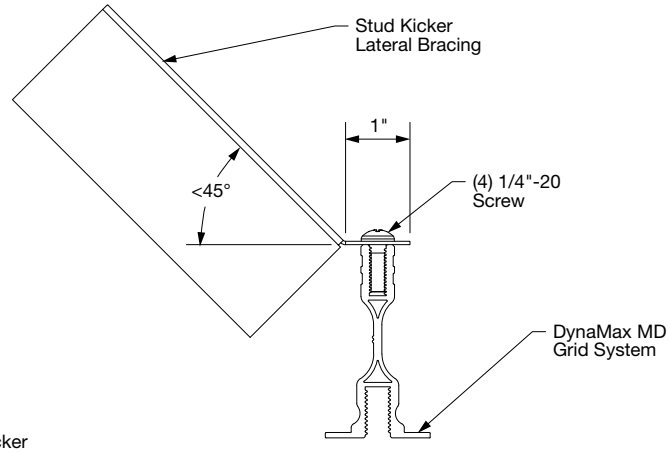


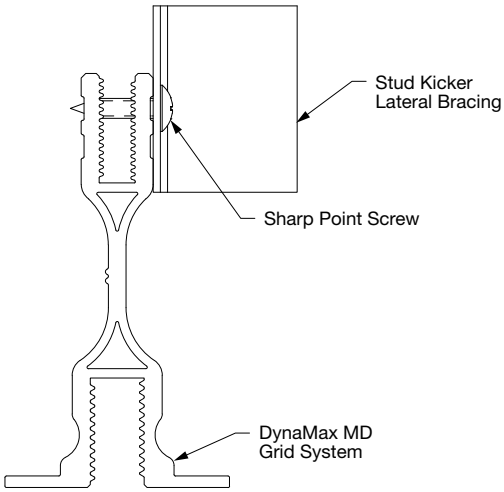
3/8" DynaMax® MD Threaded Channel Connection



Seismic Considerations







Design Guide

Section Properties

Find the full installation instructions **here**.

DynaMax® MD 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	Ix	Rx	Iy	Ry	Scx	[M]
($in.^2$)	(lbs./ft.)	(ksi)	($lbs./in.^2$)	($in.^4$)	(in.)	($in.^4$)	(in.)	($in.^3$)	(ft.-lb.)
0.728	0.856	31.0	1.00E+07	0.6626	0.9539	0.0478	0.2561	0.4080	1054

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.

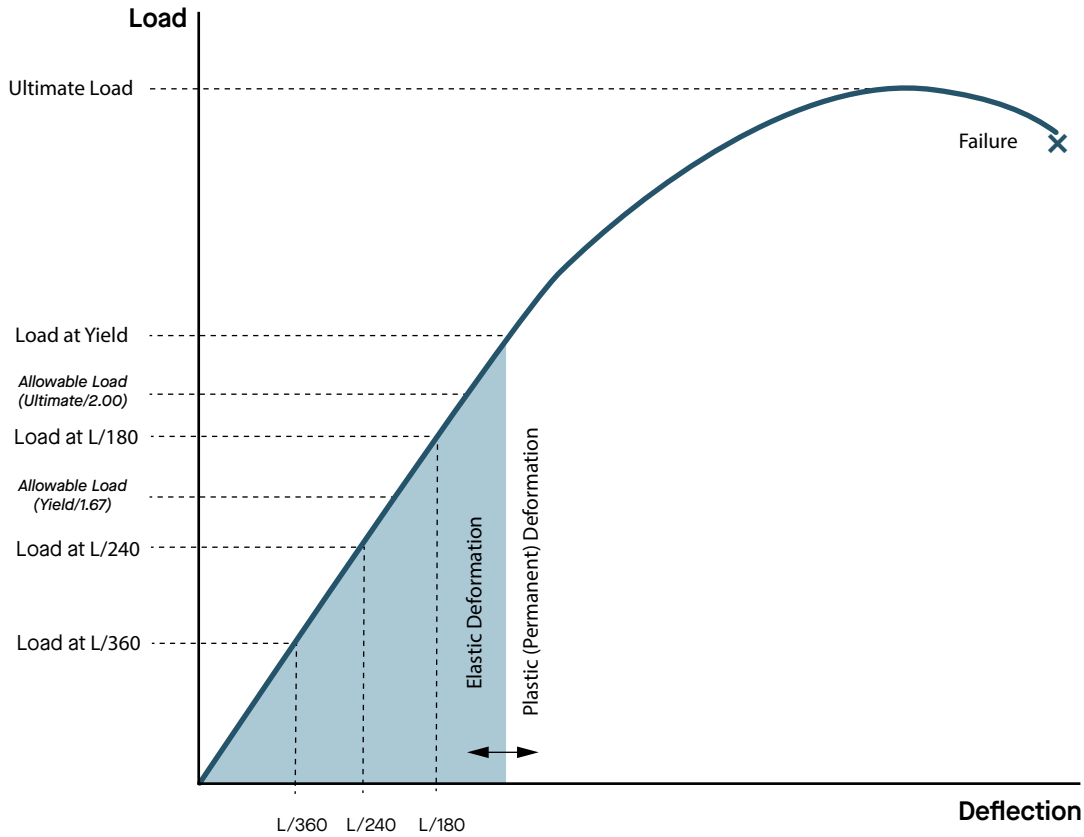
2 The load tables in this technical guide are calculated conservatively as single span (simple) beams supported at the ends.

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 MD 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



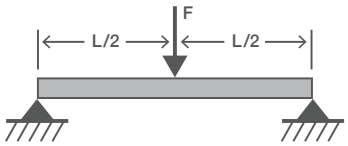
Load Data

DynaMax® MD Structural Aluminum Suspension System supports up to a 1,000 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).



Span (ft.)	Mid-Span Point Load, F (lbs.)				
	Load at Yield	Max. Allowable Load	Load at Deflection Limit		
			L/180	L/240	L/360
2	2000	1000	—	—	—
3	2000	1000	—	—	—
4	2000	1000	—	—	—
5	2000	1000	—	—	—
6	2000	1000	—	—	—
7	2000	1000	—	—	—
8	2000	1000	—	—	—

Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	250.0	125.0	—	—	—
	5	10	200.0	100.0	—	—	—
	6	12	166.6	83.3	—	—	—
	7	14	142.8	71.4	—	—	—
	8	16	125.0	62.5	—	—	—
4	4	16	125.0	62.5	—	—	—
	5	20	100.0	50.0	—	—	—
	6	24	83.3	41.6	—	—	—
	7	28	71.4	35.7	—	—	—
	8	32	62.5	31.2	—	—	—



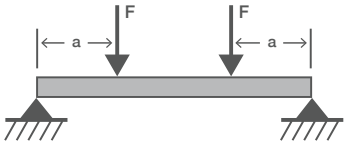
δ max = F L^3 / (48 E I)

M_{max} = F L / 4

Span (ft.)	Mid-Span Point Load, F (lbs.)				
	Load at Yield	Max. Allowable Load	Load at Deflection Limit		
			L/180	L/240	L/360
2	2100	1000	—	—	—
3	1400	840	—	—	680
4	1050	630	—	570	380
5	840	504	490	360	240
6	700	420	340	250	170
7	600	360	250	180	120
8	520	312	190	140	90

Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	131.2	78.7	—	71.2	47.5
	5	10	84.0	50.3	49.0	36.0	24.0
	6	12	58.3	34.9	28.3	20.8	14.1
	7	14	42.8	25.7	17.8	12.8	8.5
	8	16	32.5	19.4	11.8	8.7	5.6
4	4	16	65.6	39.3	—	35.6	23.7
	5	20	42.0	25.1	24.5	18.0	12.0
	6	24	29.1	17.4	14.1	10.4	7.0
	7	28	21.4	12.8	8.9	6.4	4.2
	8	32	16.2	9.7	5.9	4.3	2.8

Load Data

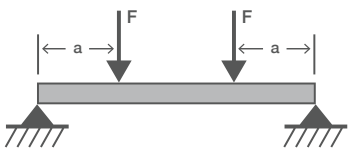


δ max = F L^3 / (48 E I)

M_{max} = F L / 4

Span (ft.)	Point Loading Location, a (in.)	Dual Point Load at 1/4 Points, F (lbs.)				
		Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	6	2100	1000	–	–	–
3	9	1400	840	990	740	490
4	12	1050	630	550	410	270
5	15	840	504	350	260	170
6	18	700	420	240	180	120
7	21	600	360	180	130	90
8	24	520	312	130	100	60

Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	262.4	157.4	137.4	102.4	67.4
	5	10	168.0	100.6	70.0	52.0	34.0
	6	12	116.6	69.8	40.0	30.0	20.0
	7	14	85.6	51.4	25.6	18.4	12.8
	8	16	65.0	38.8	16.2	12.4	7.4
4	4	16	131.2	78.6	68.6	51.2	33.6
	5	20	84.0	50.2	35.0	26.0	17.0
	6	24	58.2	34.8	20.0	15.0	10.0
	7	28	42.8	25.6	12.8	9.2	6.4
	8	32	32.4	19.4	8.0	6.2	3.6



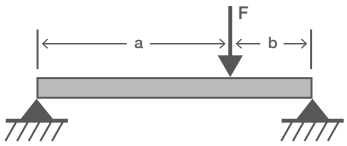
δ max = (F a / (24 E I)) · (3 L^2 - 4 a^2)

M_{max} = F a

Span (ft.)	Point Loading Location, a (in.)	Dual Point Load at 1/8 Points, F (lbs.)				
		Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	3	4210	1000	–	–	–
3	4.5	2810	1000	–	–	920
4	6	2100	1000	–	780	520
5	7.5	1680	1000	660	500	330
6	9	1400	840	460	340	230
7	10.5	1200	720	340	250	170
8	12	1050	630	260	190	130

Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	525.0	250.0	–	195.0	130.0
	5	10	336.0	200.0	132.0	100.0	66.0
	6	12	233.2	139.8	76.6	56.6	38.2
	7	14	171.4	102.8	48.4	35.6	24.2
	8	16	131.2	78.6	32.4	23.6	16.2
4	4	16	262.4	125.0	–	97.4	65.0
	5	20	168.0	100.0	66.0	50.0	33.0
	6	24	116.6	69.8	38.2	28.2	19.0
	7	28	85.6	51.4	24.2	17.8	12.0
	8	32	65.6	39.2	16.2	11.8	8.0

Load Data

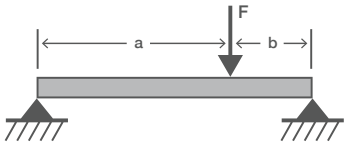


δ max = (F b (L^2 - b^2)$^{(3/2)}$) / (9 · $3^{(1/2)}$ L E I)

M_{max} = F a b / L

		Point Load within 3" of Support, F (lbs.)				
Span (ft.)	Point Loading Location, b (in.)	Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	3	4810	1000	–	–	–
3	3	4590	1000	–	–	–
4	3	4490	1000	–	–	–
5	3	4430	1000	–	–	–
6	3	4390	1000	–	–	–
7	3	4370	1000	–	–	–
8	3	4350	1000	–	–	990

			Uniform Area Load (lbs./sq. ft.)				
Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	561.2	125.0	–	–	–
	5	10	443.0	100.0	–	–	–
	6	12	365.8	83.3	–	–	–
	7	14	312.1	71.4	–	–	–
	8	16	271.8	62.5	–	–	61.8
4	4	16	280.6	62.5	–	–	–
	5	20	221.5	50.0	–	–	–
	6	24	182.9	41.6	–	–	–
	7	28	156.0	35.7	–	–	–
	8	32	135.9	31.2	–	–	30.9



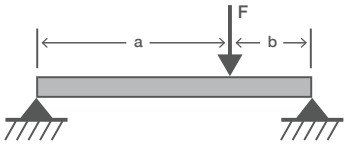
δ max = (F b (L^2 - b^2)$^{(3/2)}$) / (9 · $3^{(1/2)}$ L E I)

M_{max} = F a b / L

		Point Load within 6" of Support, F (lbs.)				
Span (ft.)	Point Loading Location, b (in.)	Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	6	2810	1000	–	–	–
3	6	2520	1000	–	–	–
4	6	2400	1000	–	–	–
5	6	2340	1000	–	–	800
6	6	2290	1000	–	1000	670
7	6	2270	1000	–	860	570
8	6	2240	1000	1000	750	500

			Uniform Area Load (lbs./sq. ft.)				
Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	300.0	125.0	–	–	–
	5	10	234.0	100.0	–	–	80.0
	6	12	190.8	83.3	–	83.3	55.8
	7	14	162.1	71.4	–	61.4	40.7
	8	16	140.0	62.5	62.5	46.8	31.2
4	4	16	150.0	62.5	–	–	–
	5	20	117.0	50.0	–	–	40.0
	6	24	95.4	41.6	–	41.6	27.9
	7	28	81.0	35.7	–	30.7	20.3
	8	32	70.0	31.2	31.2	23.4	15.6

Load Data

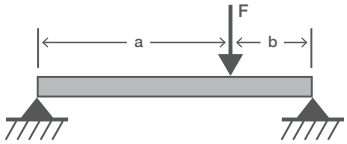


δ max = (F b (L^2 - b^2)$^{(3/2)}$) / (9 · $3^{(1/2)}$ L E I)

M_{max} = F a b / L

Span (ft.)	Point Loading Location, b (in.)	Point Load within 12" of Support, F (lbs.)				
		Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	12	2100	1000	–	–	–
3	12	1580	948	–	–	790
4	12	1400	840	–	820	540
5	12	1310	786	840	630	420
6	12	1260	756	690	510	340
7	12	1220	732	580	440	290
8	12	1200	720	510	380	250

Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	175.0	104.9	–	102.5	67.5
	5	10	131.0	78.5	84.0	63.0	42.0
	6	12	105.0	62.9	57.5	42.5	28.3
	7	14	87.1	52.2	41.4	31.4	20.7
	8	16	75.0	44.9	31.8	23.7	15.6
4	4	16	87.5	52.4	–	51.2	33.7
	5	20	65.5	39.2	42.0	31.5	21.0
	6	24	52.5	31.4	28.7	21.2	14.1
	7	28	43.5	26.1	20.7	15.7	10.3
	8	32	37.5	22.4	15.9	11.8	7.8



δ max = (F b (L^2 - b^2)$^{(3/2)}$) / (9 · $3^{(1/2)}$ L E I)

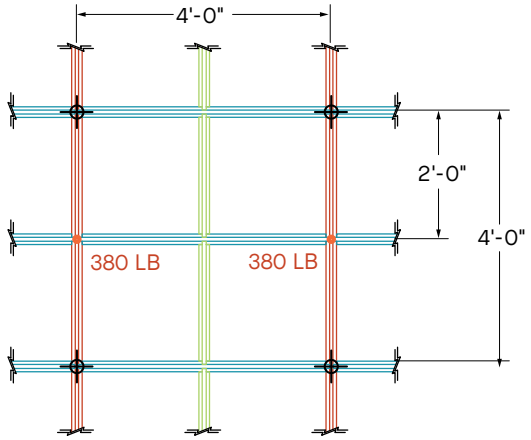
M_{max} = F a b / L

Span (ft.)	Point Loading Location, b (in.)	Point Load within 18" of Support, F (lbs.)				
		Load at Yield	Max. Allowable Load	Load at Deflection Limit		
				L/180	L/240	L/360
2	18	–	–	–	–	–
3	18	1400	840	–	–	680
4	18	1120	672	–	620	410
5	18	1000	600	610	450	300
6	18	930	558	480	360	240
7	18	890	534	400	300	200
8	18	860	516	350	260	170

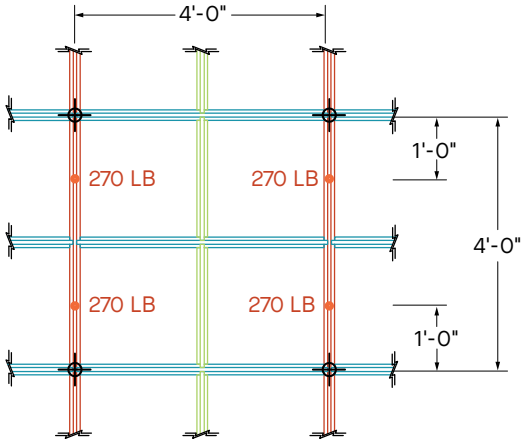
Main Beam Spacing (ft.)	Span (ft.)	Area (sq. ft.)	Uniform Area Load (lbs./sq. ft.)				
			Load at Yield	Max. Allowable Load	L/180	L/240	L/360
2	4	8	140.0	83.9	–	78	51.2
	5	10	100.0	59.9	61	45	30.0
	6	12	77.5	46.4	40	30.0	20.0
	7	14	63.5	38.1	29	21.4	14.2
	8	16	53.7	32.2	21.8	16.2	10.6
4	4	16	70.0	41.9	–	39	25.6
	5	20	50.0	29.9	31	23	15.0
	6	24	38.7	23.2	20	15.0	10.0
	7	28	31.7	19.0	14	10.7	7.1
	8	32	26.8	16.1	10.9	8.1	5.3

Loading Condition Examples

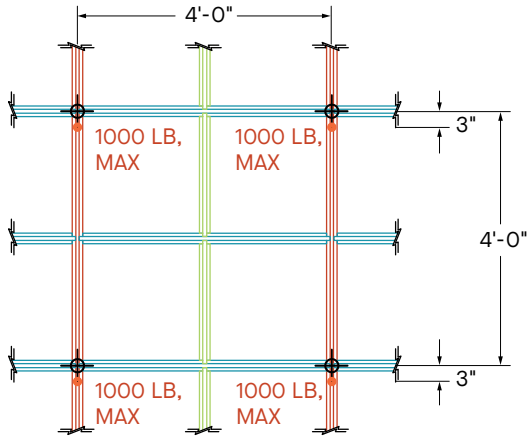
NOTE: Loading condition examples are shown with L/360 deflection



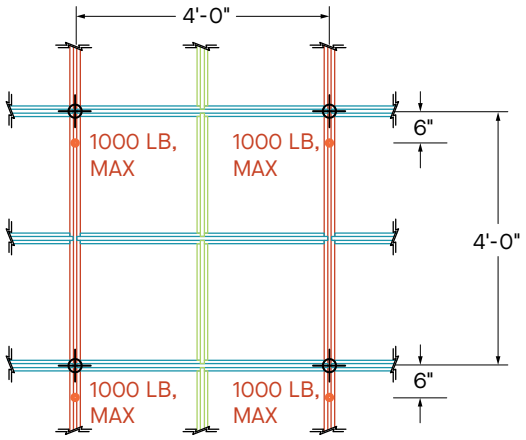
4' × 4' Support Spacing
Main Beam Mid-Span Loading



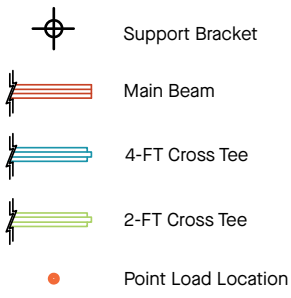
4' × 4' Support Spacing
Main Beam Dual Point Loads at 1/4 Points



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

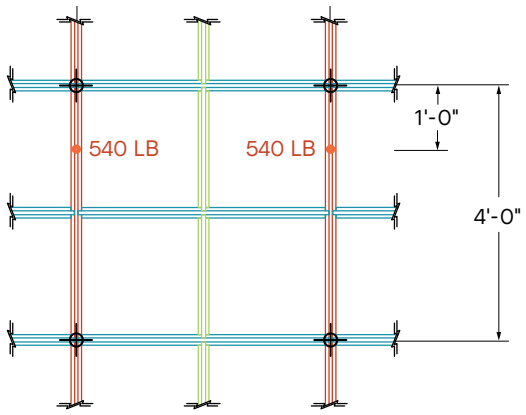


4' × 4' Support Spacing
Main Beam Point Load within 6" of Support

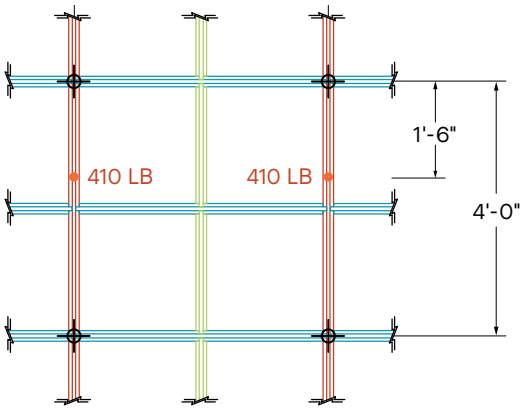


Loading Condition Examples

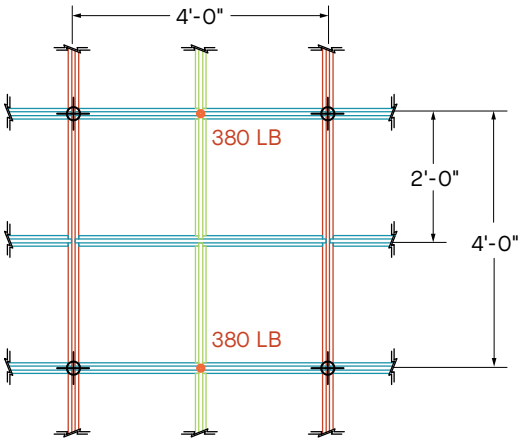
NOTE: Loading condition examples are shown with L/360 deflection



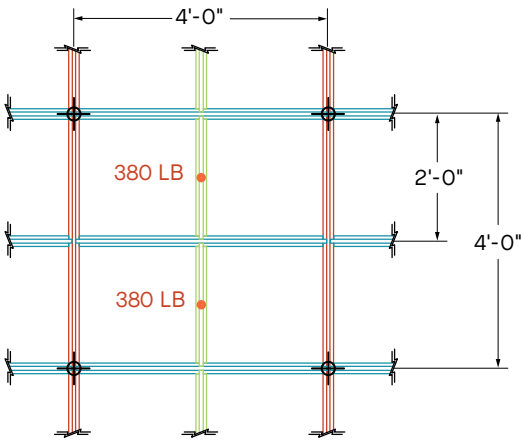
4' × 4' Support Spacing
Main Beam Point Load within 12" of Support



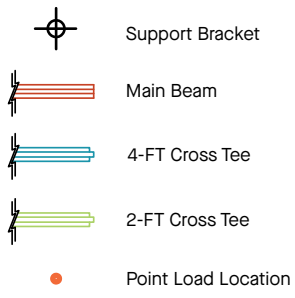
4' × 4' Support Spacing
Main Beam Point Load within 18" of Support



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

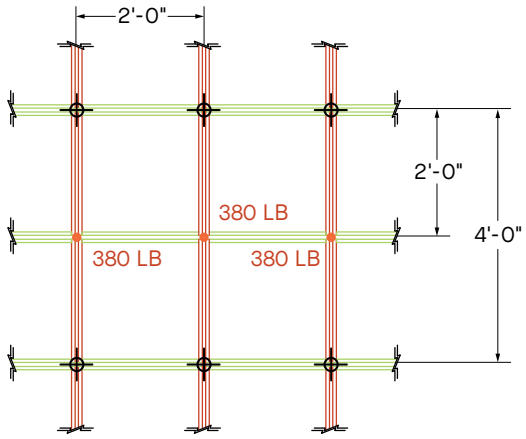


4' × 4' Support Spacing
2' Cross Tee Mid-Span Loading

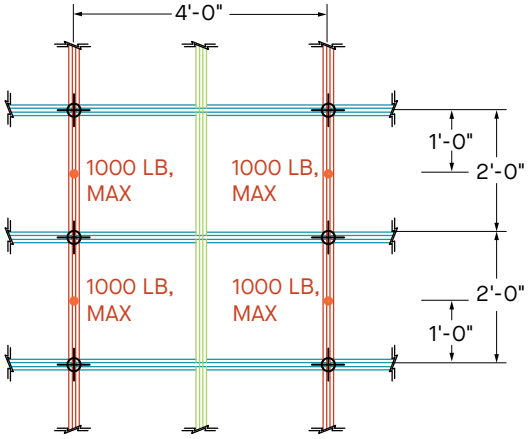


Loading Condition Examples

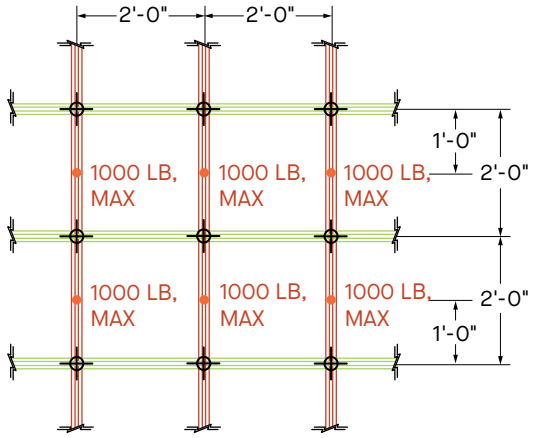
NOTE: Loading condition examples are shown with L/360 deflection



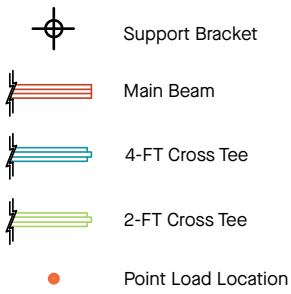
4' × 2' Support Spacing
Main Beam Mid-Span Loading



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



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



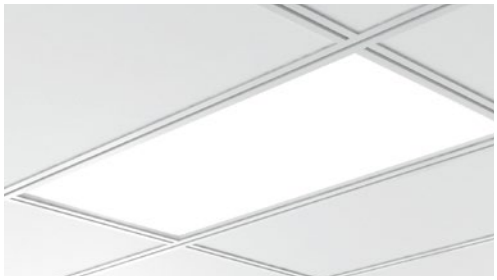
Partner Solutions for DynaMax® MD

Integrated Lighting Partners

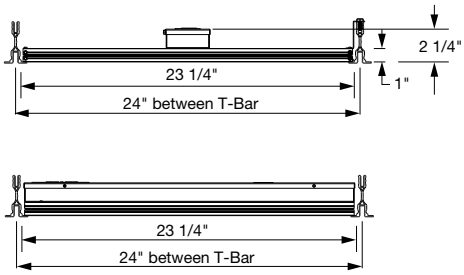
Lighting and diffuser solutions are available through partner companies.

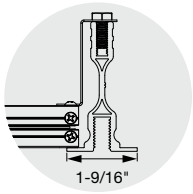


TRAYFIT™ 2 × 2

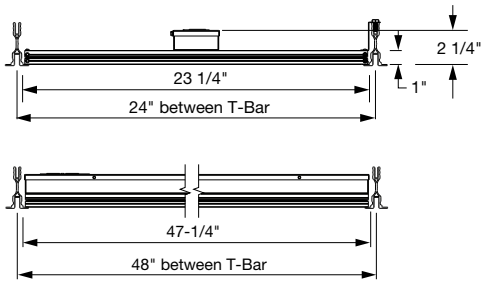


TRAYFIT™ 2 × 4





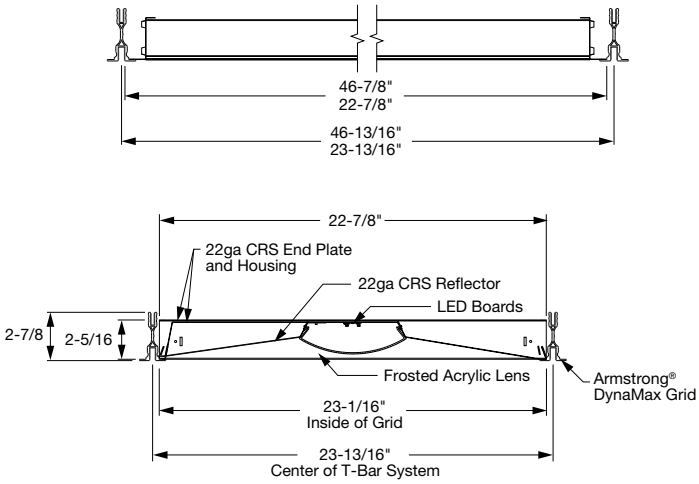
Detail View



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



PTDC – Shallow Plenum LED Troffer for DynaMax MD System

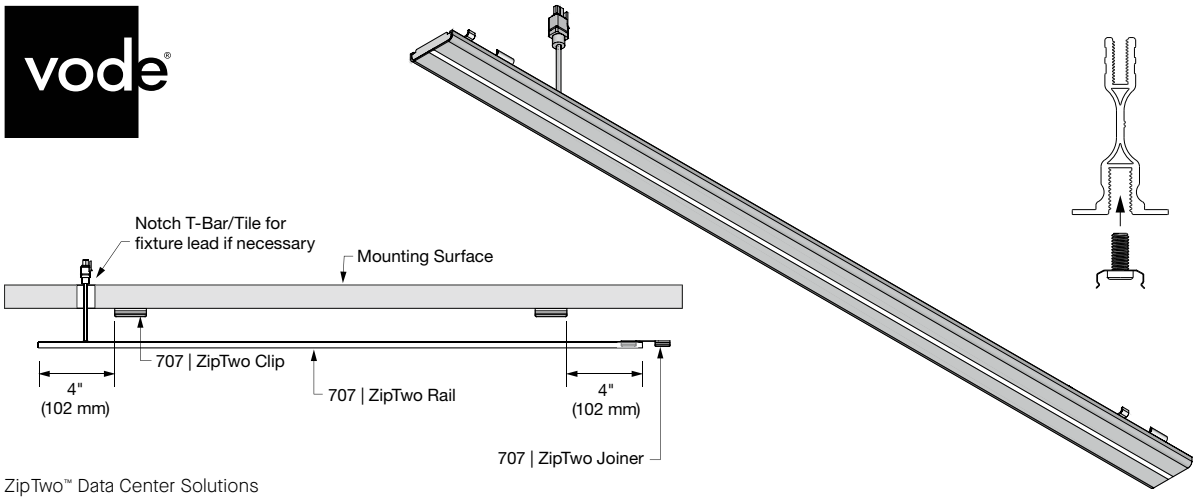


For compatible lighting details, visit **hew.com/products/PTDC**

Partner Solutions for DynaMax® MD

Integrated Lighting Partners

Lighting and diffuser solutions are available through partner companies.

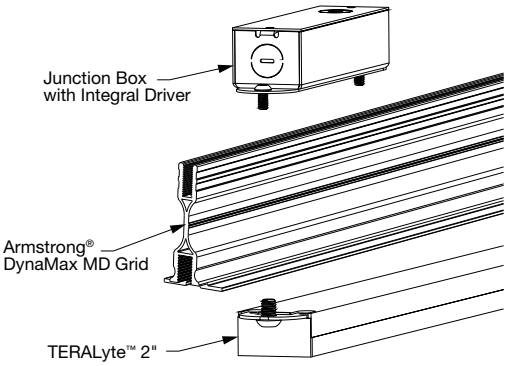


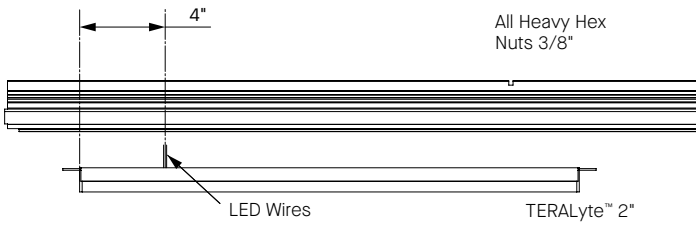
ZipTwo™ Data Center Solutions

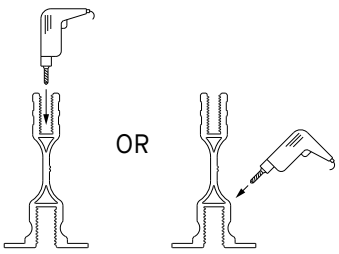
For compatible lighting details, visit **vode.com/dynamax**



TERALyte™ 2" for the DynaMax® MD grid system



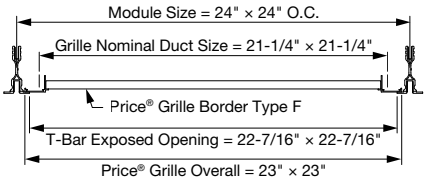


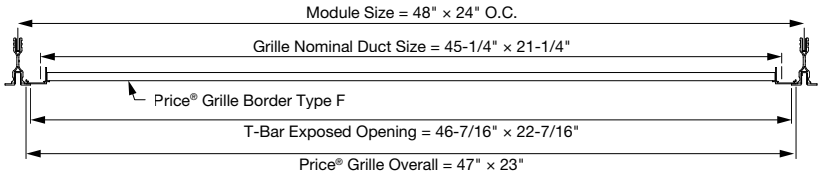


For compatible lighting details, visit **jlc-tech.com**

Partner Solutions for DynaMax® MD

Integrated MEP Partners



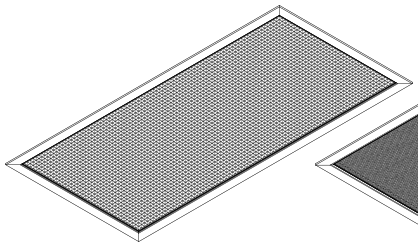




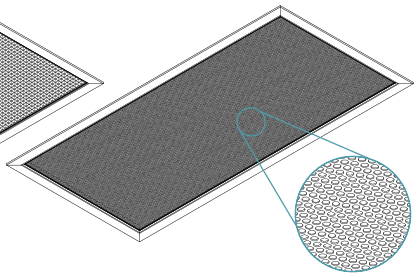
Eggcrate Air Device –
Price Model 80



Perforated Air Device –
Price Model 10



Eggcrate Air Device –
Price Model 80



Perforated Air Device –
Price Model 10

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

The Next Steps

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