

Q 360

Innovation and Technology

# CEILING GRID

D A T A   C E N T E R

CATALOG



# WHY IT USE ?

Ceiling grid systems play a crucial role in modern data centers by providing a robust and flexible infrastructure for managing overhead space. This enables efficient organization of critical components, such as cable trays, lighting, and cooling systems, ensuring seamless operations.

Our ceiling grid solutions offer significant benefits, including:

- Improved cable management for enhanced organization and safety.
- Flexible equipment mounting to accommodate evolving technology needs.
- Optimized cooling airflow to reduce energy costs and maintain system reliability.

Designed to meet stringent industry standards, our solutions support scalability and adaptability, making them ideal for both new installations and retrofits.

By choosing our ceiling grid systems, you invest in infrastructure that prioritizes efficiency, durability, and long-term performance for your data center.

# Q360 CEILING GRID BENEFITS

- Serves the dual purpose of acting as both a drop ceiling and a structural support grid for overhead utility distribution.
- Provides a versatile platform for attaching or suspending containment barriers, partitions, and surface-mounted equipment.
- Offers greater flexibility for installation and routing of distribution systems and partitions.
- Fully accessible overhead suspension allows for seamless expansion, upgrades, or system changes.
- Reduces the need for additional interstitial support steel by up to 50%.
- Eliminates the necessity for separate strut grids for overhead distribution suspension and drop ceiling tile systems.
- Ensures a clean environment with no penetrations in the drop ceiling, preventing harmful debris from damaging sensitive electronic equipment.
- Features non-progressive, removable components, maintaining the structural integrity of the installed ceiling grid system while allowing easy modifications.

# CEILING SUSPENSION

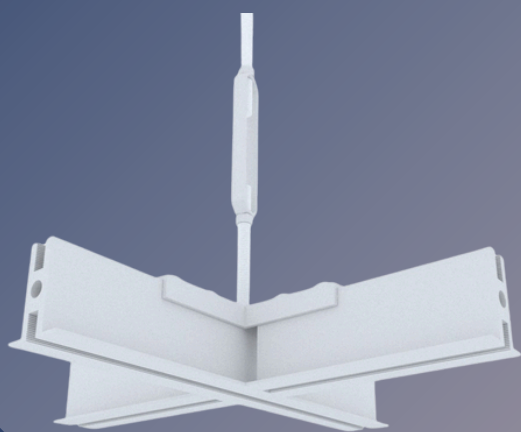
**Load-Bearing Design:** Q360 ceiling suspension system is specifically designed to support the direct suspension of overhead cable distribution and containment barriers.

**Flexible Attachment:** All aluminum extrusions feature a continuous M-10 threaded boss, allowing for attachment or suspension at any desired location.

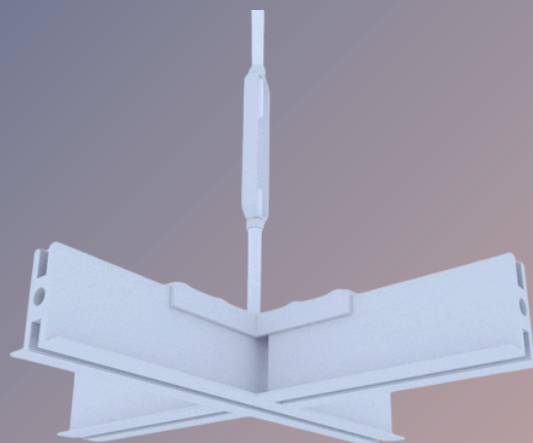
**Secure Connectors:** Die-cast intersection connectors securely join extruded aluminum grid members, providing strong attachment points for 1200mm x 1200mm suspension from the building structure.

**Seismic Compliance:** The system can be configured with fixed or floating perimeter options to meet seismic compliance requirements.

**Standard and Optional Finishes:** The standard finish is clear anodized aluminum, with black and white finishes available as optional upgrades.

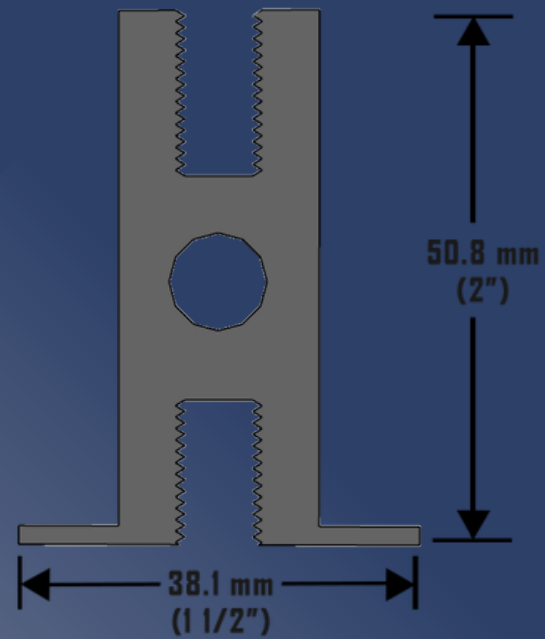


White

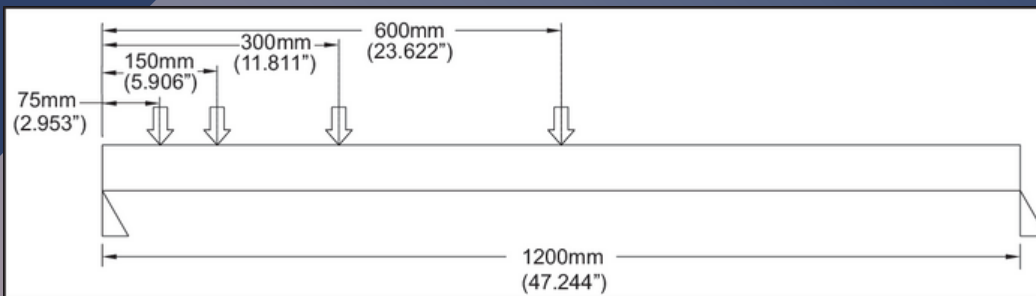


Aluminium

# HEAVY LOAD CEILING SUSPENSION



## Point Load and Deflection

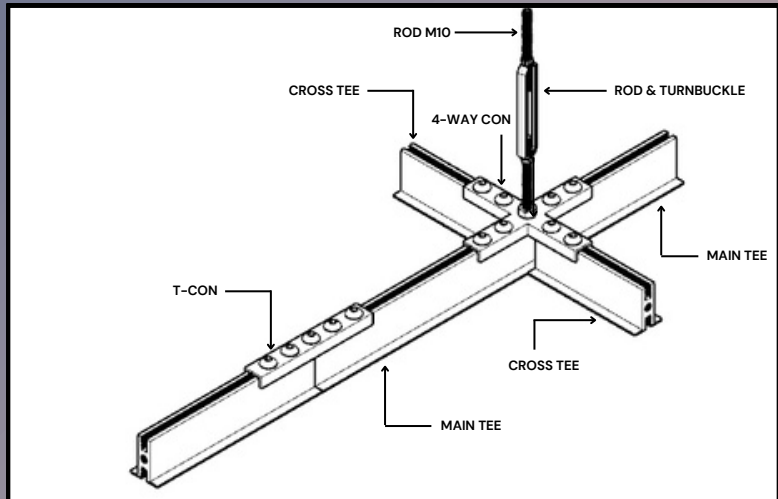
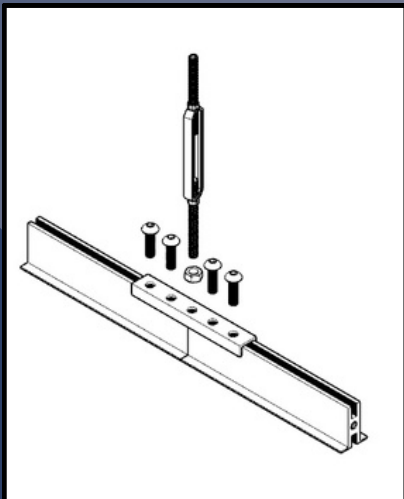
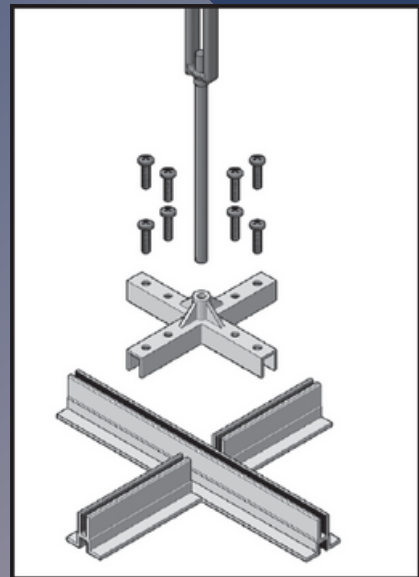
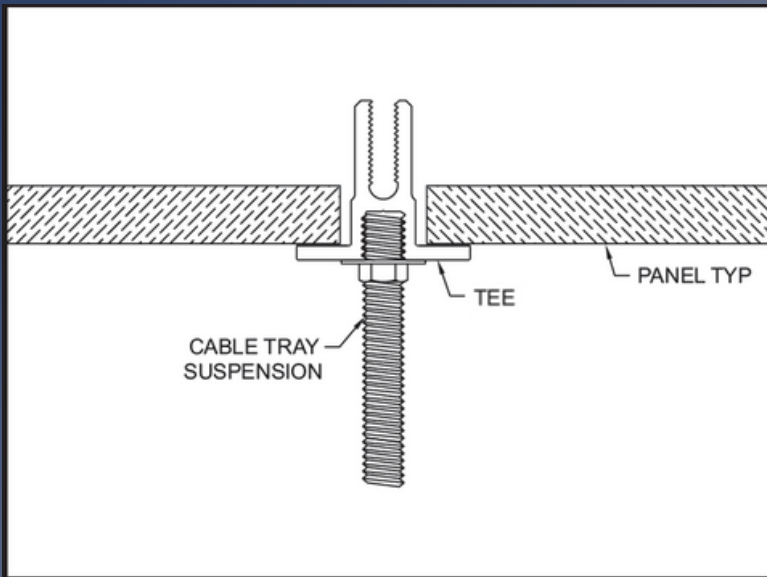
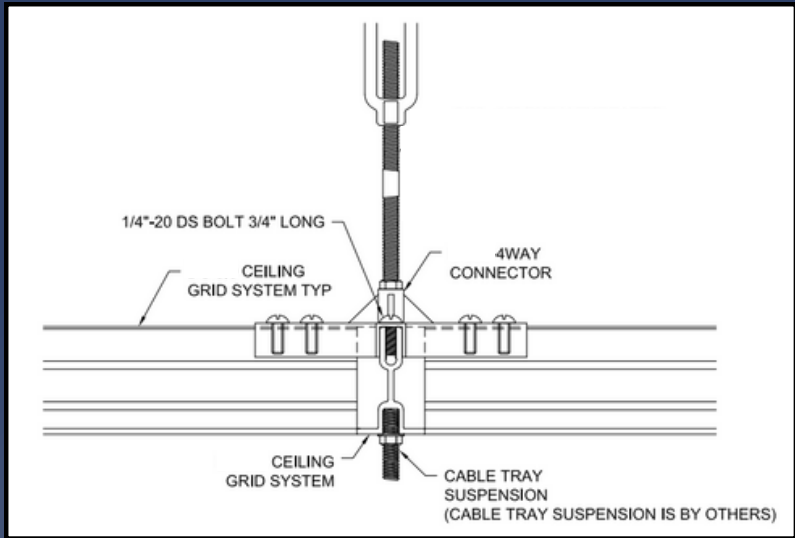


Single Point Load			Kg@600mm		Kg@300mm		Kg@150mm		Kg@75mm	
Hanger Span	Deflection Criteria	Vertical Deflection mm (in.)	Point Load kg (lbs)	Uniform Load kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )*	Point Load kg (lbs)	Uniform Load kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )*	Point Load kg (lbs)	Uniform Load kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )*	Point Load kg (lbs)	Uniform Load kg/m <sup>2</sup> (lbs/ft <sup>2</sup> )*
1200mm	L/360	3.3 (.13)	68 (149)	47.2 (9.6)	104 (229)	72.2 (14.8)	180 (397)	125.0 (25.6)	367 (809)	254.9 (52.2)
1200mm	L/180	6.7 (.26)	135 (298)	93.8 (19.2)	209 (461)	149.3 (31.8)	360 (794)	250.0 (51.2)	734 (1618)	509.7 (104.4)
1200mm	L/90	13.3 (.52)	270 (595)	187.5 (38.4)	418 (922)	290.3 (59.5)	720 (1587)	500.0 (102.4)	1468 (3236)	1019.4 (208.8)

## Point Load below based on worst case loading of Cable Tray.

Deflection Criteria	Vertical Deflection mm (in.)	Point Load @600mm kg (lbs)	Number of Cat 6 Cables including Cable Tray Supported 1,200mm O.C.
L/360	3.3 (.13)	44 (97)	1,218
L/180	6.7 (.26)	88 (194)	2,557
L/90	13.3 (.52)	176 (388)	5,223

# TYPICAL FOR ALL DG SUSPENSION SYSTEMS



# NOTE

# CONTACT US



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