



Heavy Duty Ceiling Grid  
**TechGrid**

**TECHNO**  
FRAME

# Heavy Duty Ceiling Grid

## TechGrid

**TechGrid** is heavy duty grid ceiling frame engineered to support ceiling tiles and heavy suspended loads.

The grid uses a single extruded aluminium profile for both primary and secondary members designed to allow easy fitting of suspensions in the form of threaded rods at any point on the grid.

This feature provides the designer flexibility to attach suspension points to suspend cable tray, light fittings, equipment, etc.



### Features:

- Quick and easy installation
- Engineered to support heavy loads
- Versatile to meet various load requirements and grid configuration
- Interchangeable parts minimises inventory
- Anodised / powder coating finished aluminium profile provides excellent corrosion resistance

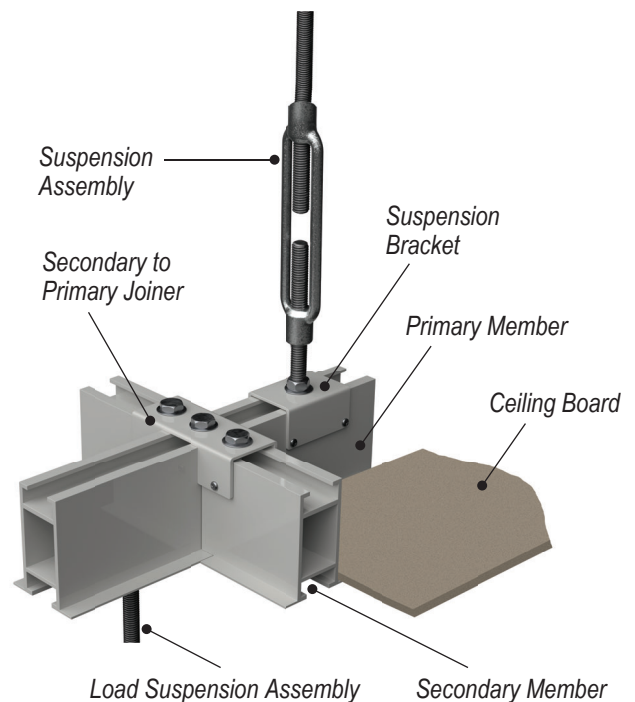
### Engineered Profile

The **TechGrid** is a proprietary profile extruded from structural grade aluminium (6082). Standard profiles are finished in natural anodise. Specifiers has the option to select coloured profiles which will be finished in powder coating for aesthetic enhancement.

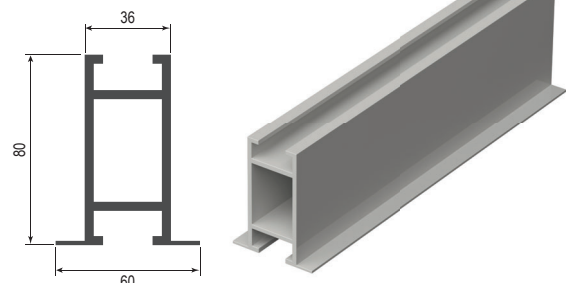
The profile is designed to support heavy loads. In addition to ceiling boards/tiles, the grid can support loads from equipment, electrical/data cables etc. and can also designed to be trafficable with walkway mounted over the ceiling frame.

This system is suitable for application in Data Centers where the ceiling grids are required to support cables and larger span to avoid services.

The profile is designed with a built in track on top and bottom to allow easy fixing of suspension and picking up loads below. The suspension assembly can be adjusted laterally and additional suspensions added without hassle.

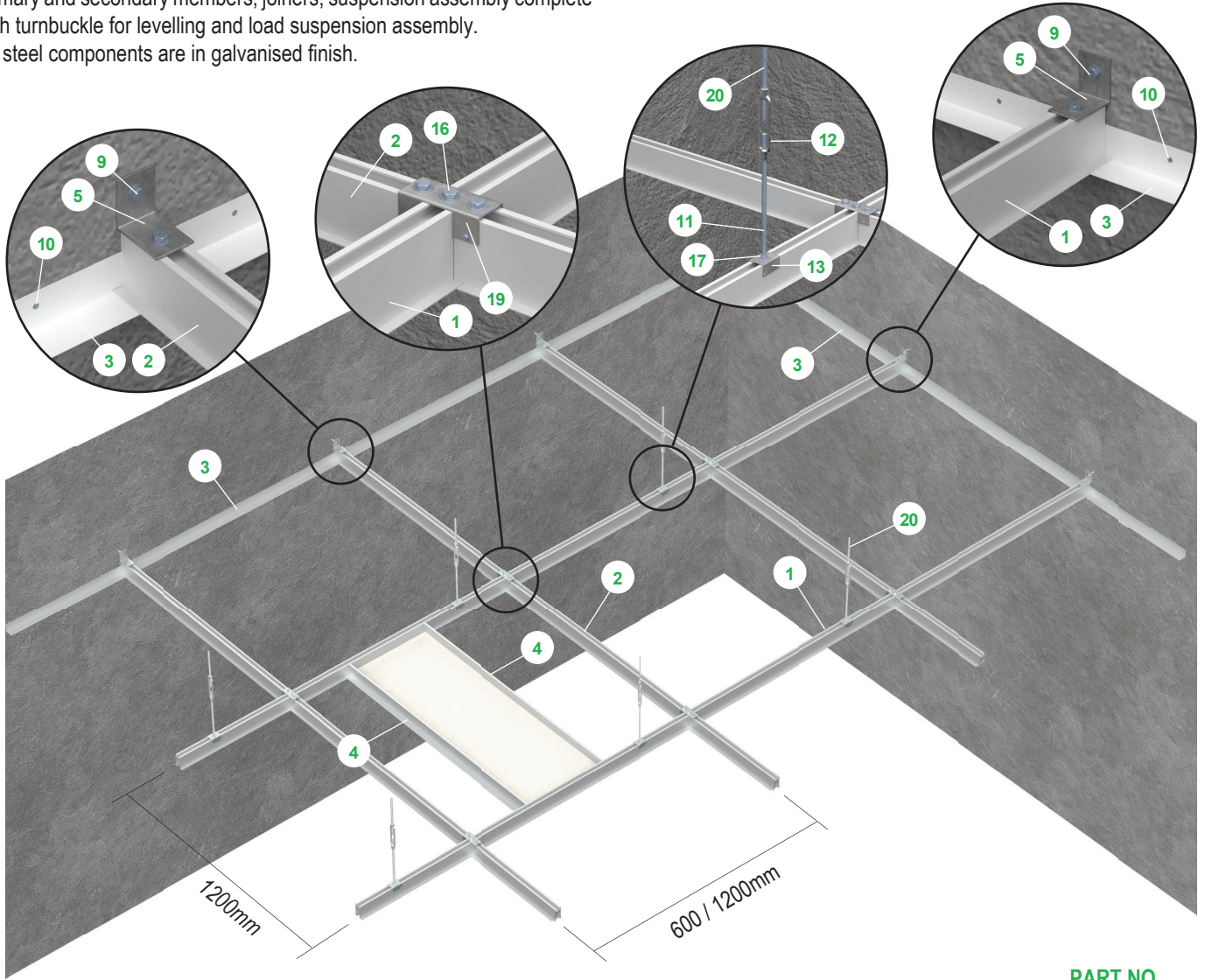


### TechGrid Aluminium Profile



## Components / Accessories

The **TechGrid** ceiling system comprised a handful of components which includes primary and secondary members, joiners, suspension assembly complete with turnbuckle for levelling and load suspension assembly. All steel components are in galvanised finish.



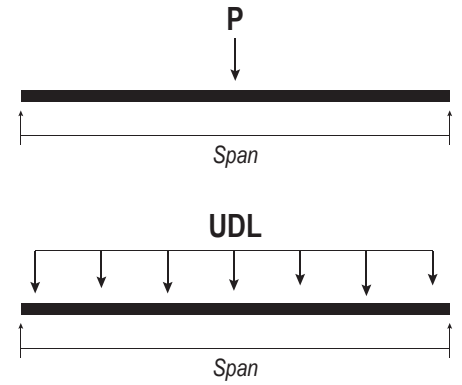
DESCRIPTION		PART NO.	DESCRIPTION		PART NO.	
					M10 Series	M12 Series
1	TECHGRID Primary	TGP-3600	11	Threaded Stud for Turnbuckle Rod	TS10	TS12
2	TECHGRID Secondary	TGS-1164	12	Turnbuckle	TB10	TB12
3	Wall Angle 25mm x 25mm	WL2525	13	Suspension Bracket	SB10	SB12
4	Secondary Tee-1164	ST-1164	14	Spring Nut	SN10	SN12
5	Wall Bracket	WB	15	Flat Washer	FW10	FW12
6	Flat Washer 45mm	FW45	16	Hex Bolt x20mm	HB10	HB12
7	Hex Head 12-14x20 Self Drilling Screw	H5165D	17	Hex Nut	HN10	HN12
8	Hold Down Clip	TGHDC	18	Rod Joiner	RJ10	RJ12
9	6x40mm PLASTIC ANCHOR c/w SCREW	PA640	19	Cross Joiner	CJ10	CJ12
10	10x60mm PLASTIC ANCHOR c/w SCREW	PA1060	20	Threaded Suspension Rod	TR10-2000	TR12-2000

# Structural Performance

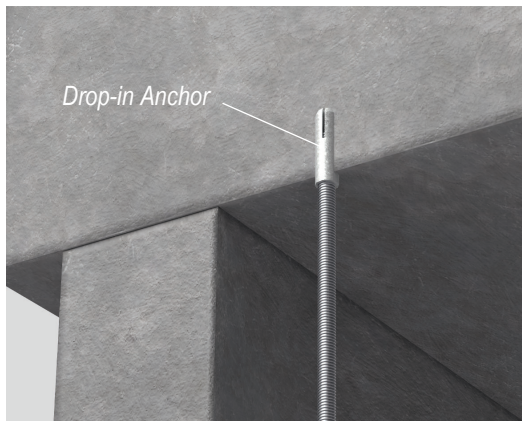
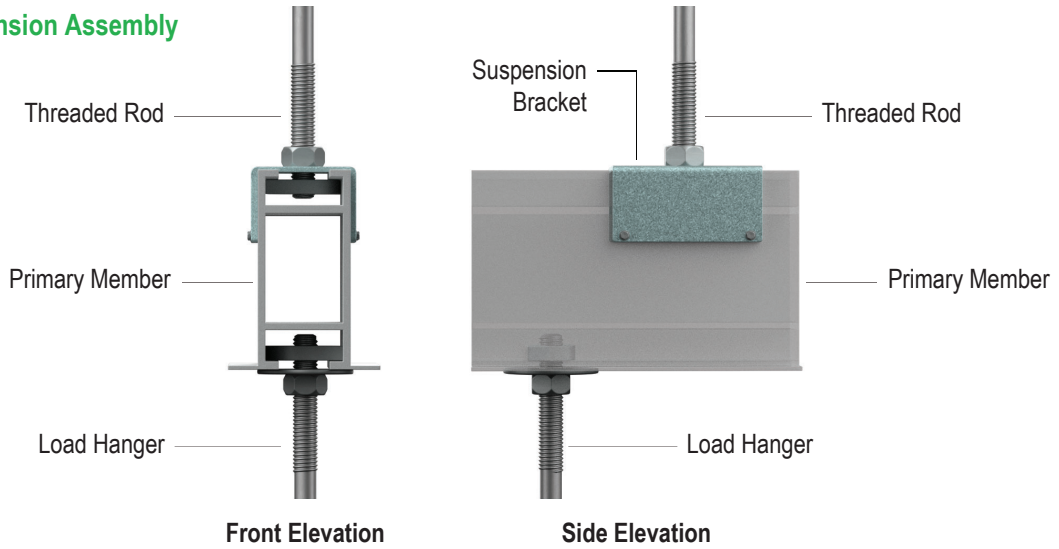
## Load Table

Span (P)	Concentrated Load (kg)	Linear Load (kg/m)	Uniform Dist. Load (kg/m <sup>2</sup> )
1200	630	525	438
1500	295	246	205

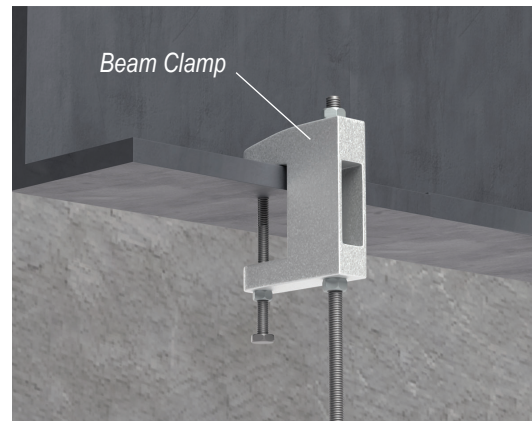
**Note:** Based on primary member spaced at 1200mm centers and 10mm maximum deflection.



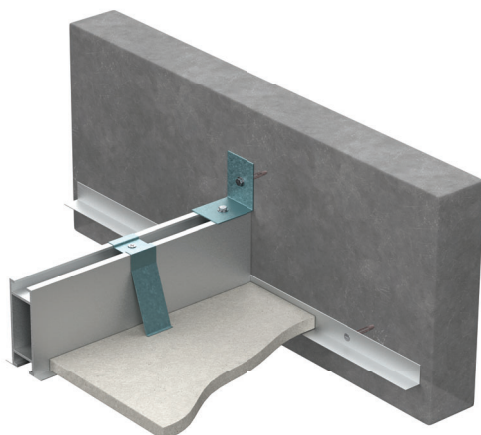
## SECTION - Suspension Assembly



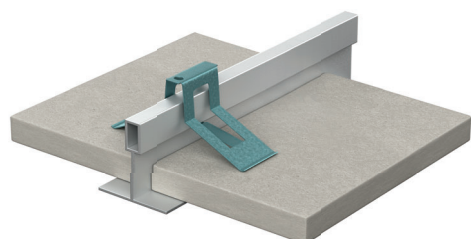
Fixing to Reinforced Concrete Structure



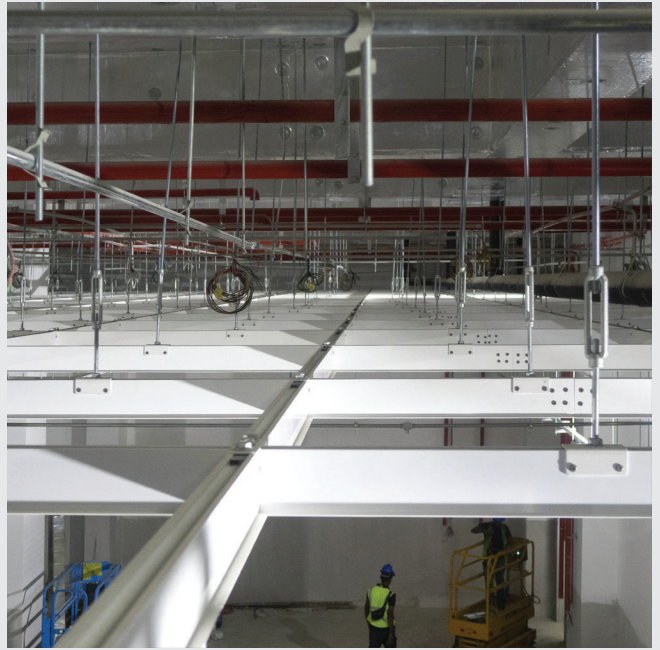
Fixing to Steel Structure



Hold Down Clips for TECHGRID



Hold Down Clips for Secondary





**TECHNO**  
**FRAME**

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