Product Overview

The Iso Flex-Grid is an engineered structural ceiling system that acts as both a dropped return air ceiling plenum, as well as a support grid, providing a cost effective solution for use in Data Centres, clean rooms, labs and other environments.

The Iso Flex-Grid system uses high-grade aluminium extrusions with a continuous M10 threaded slot along the entire underside of the grid. The ceiling grid is assembled using 2-, 3- and 4-way high strength diecast connectors.

Because the system has a high load-bearing capacity, no additional attachments are needed through the inner ceiling up to the ceiling above.

The Iso Flex-Grid ceiling system can be tailored to meet project specific requirements in relation to colour and finish, grid size, ceiling plenum height, ceiling tile material and load capacities.

With the ceiling tiles in place you can create a hot return air plenum for use in combination with a contained hot aisle, individual cabinet chimney systems or contained cold aisles. The ceiling tiles can be secured to the grid if preferred.

The layout of the ceiling can easily be adapted to row aisles, equipment or other needs by placing the carrier profiles where they are most needed and not according to a predetermined pattern. If it is necessary to make alterations or additions at a later date, Iso Flex-Grid can easily be modified and supplemented according to the new needs.

As standard the Iso Flex-Grid is designed for point loads up to 300 kg.

Benefits

- Dual purpose offering both a load-bearing grid combined with a drop-down ceiling.
- Cost effective as there is no need for additional suspension points.
- Extremely flexible, allows countless overhead suspension points in all directions.
- Not dependant on server rack location or dimensions.
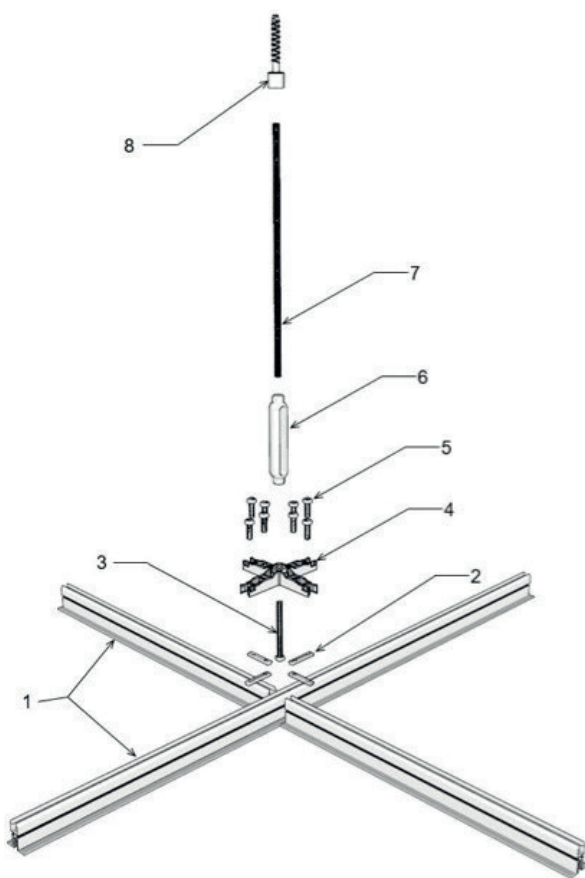- Provides a cost effective platform for future expansions.

Features

- Continuous M10 threaded interface for infrastructure support.
- Designed for optimum stiffness.
- Variable ceiling grid.
- Natural anodised aluminium finish as standard, with optional powder coating finishes to client's specifications.
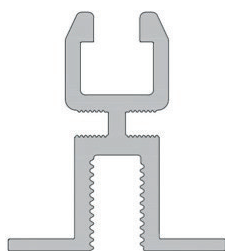
Specification

A typical Iso Flex-Grid ceiling system comprises perimeter and main extrusions, joint connector assemblies and hanging rods with turnbuckles for in-situ height and levelling adjustment. Ceiling tiles are laid into the ceiling and supported by the extrusion profiles.
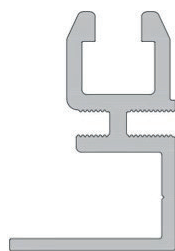
The Iso Flex-Grid system is designed to create varying ceiling grid patterns. Industry standard patterns include: 600x600 mm, 1200x600 mm, 1200x1200 mm or 1220x620 mm grid layouts but custom layouts are regularly provided to suit specific project requirements.
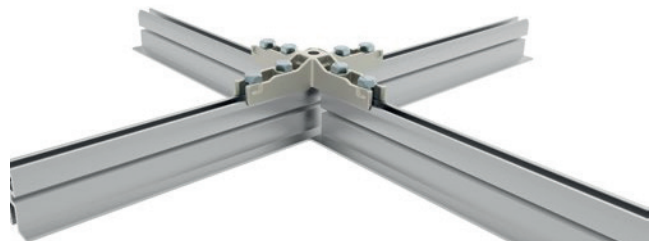
Profile Connection Options

2-way connector
Joins two lengths of main or perimeter extrusions. Provides additional hanging points for improved hanging strength or reduced deflection.

3-way connector
Joins main extrusion to perimeter extrusion. Provides hanging points to wall extrusion for improved hanging strength or reduced deflection.

4-way connector
Joins two lengths of main extrusions. Provides additional hanging points for improved hanging strength or reduced deflection.

1. Main extrusion
2. Two (2) hole drop in nuts
3. M8 LH thread bolt
4. 4-way connector
5. M8 bolts
6. LH/RH threaded turnbuckle
7. M8 threaded rod
8. Slab/roof connection bolt

Main Extrusion Profile

Perimeter Extrusion Profile

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