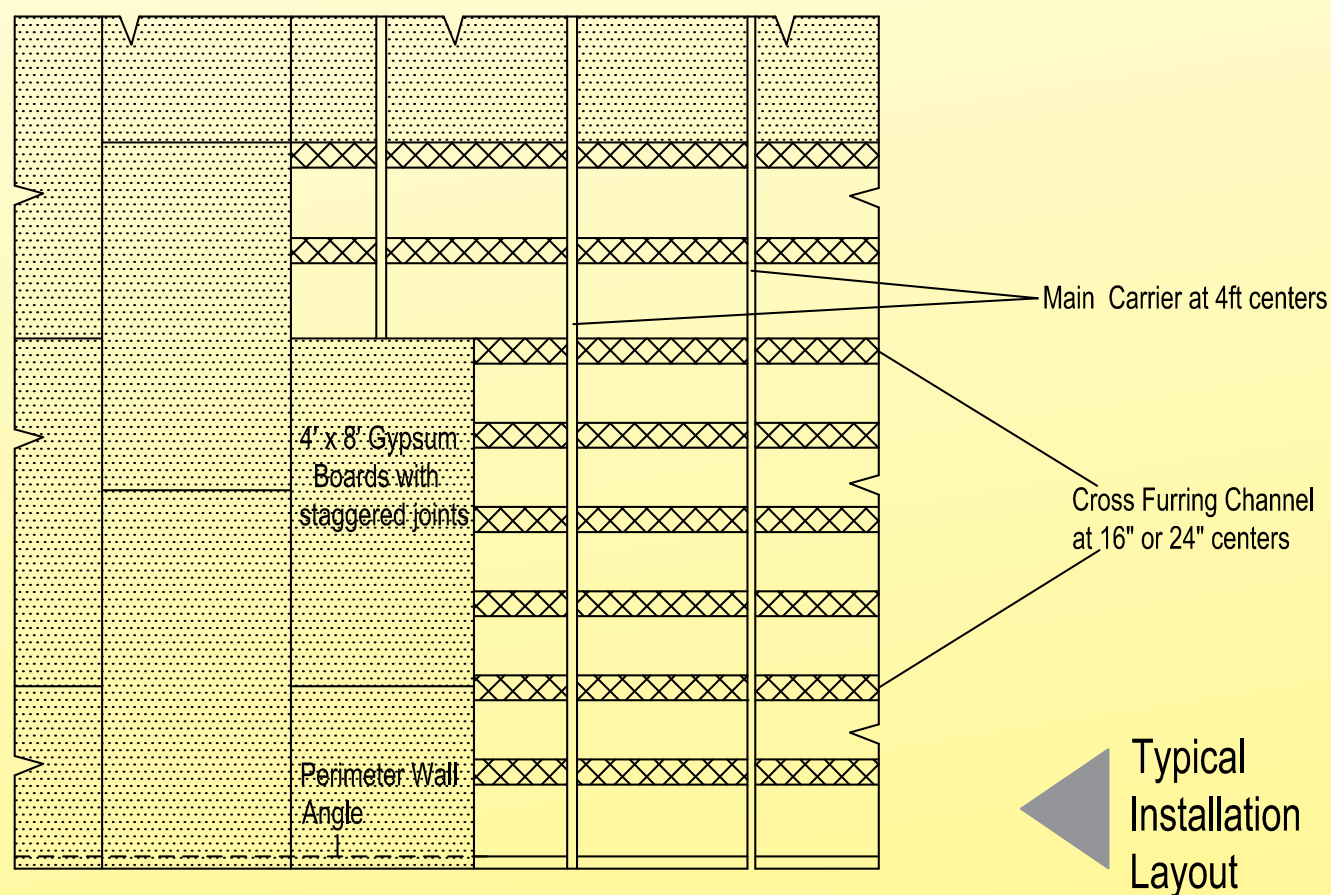


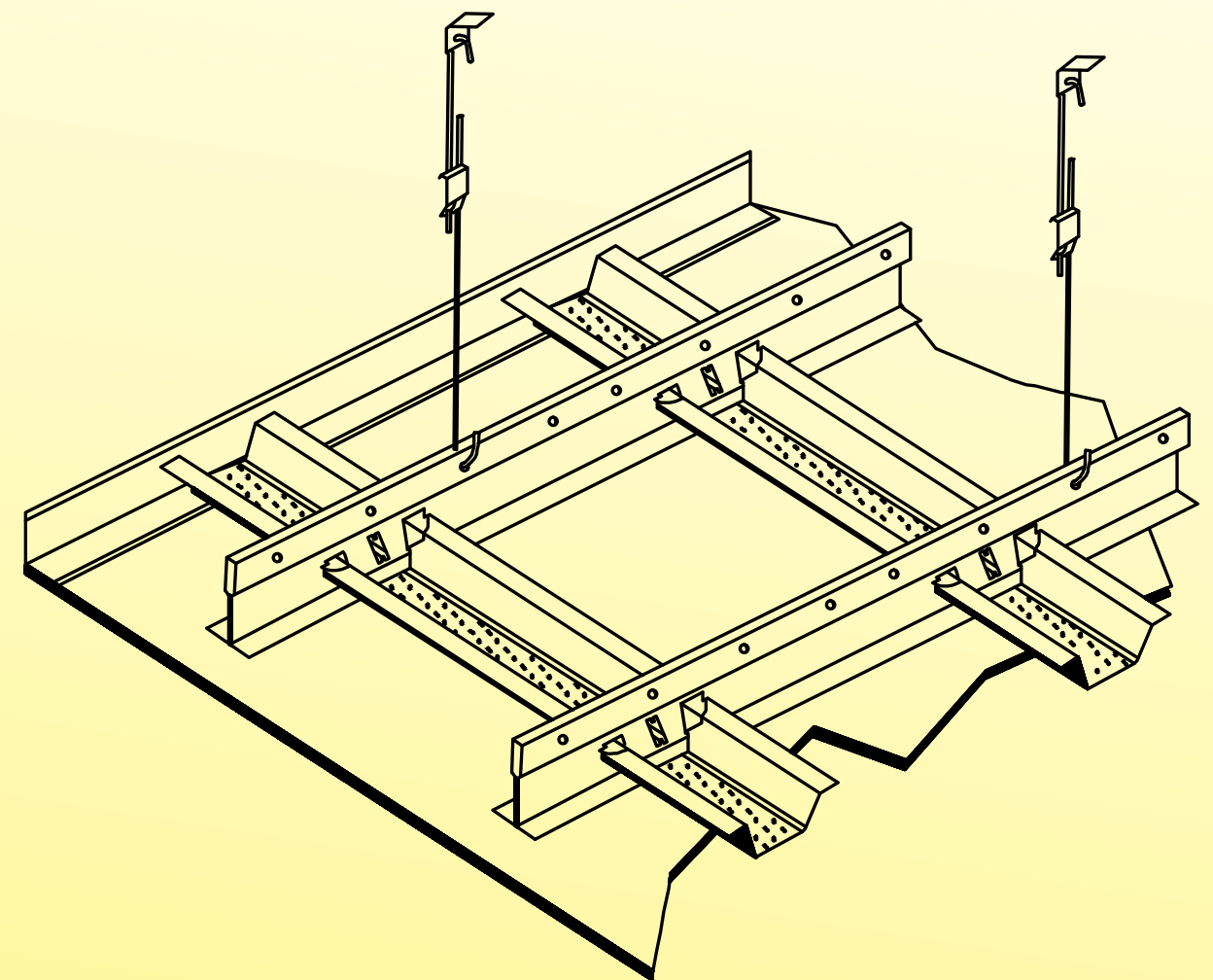
Component Specifications

Component	Shape	Length (m)	Quantity Per Ctn (piece)	Weight Per Ctn (kg)
Main Carrier		12 ft	20	28
		12 ft	20	28
Cross Furring Chanel		4 ft	20	9
Perimeter Channel		3.6 m	40	30



MEGAFRAME

Fixed Module Metal Furring System



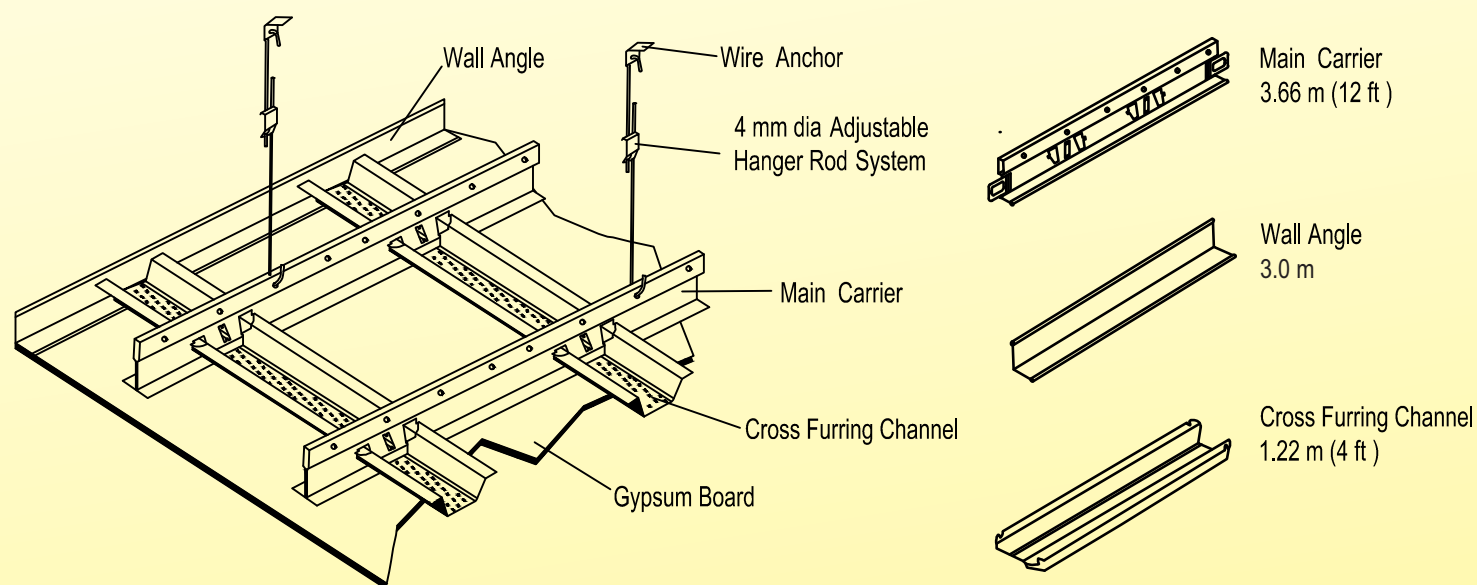
A Fixed Module Interlocking Metal Furring System for Flat Ceiling using Gypsum, Calcium Silicate, Fiber Cement and Other Building Boards.

Framework Ceiling Grid Systems

Component Specification

MegaFrame Furring system is a fixed module metal furring system designed for the fixing of gypsum, calcium silicate, fiber cement and other building boards for a composite ceiling system with no visible joint.

The system is prefabricated in standard components with Interlocking Splices at the Main Carrier and Cross Furring Channel for easy and quick installation. It is available in fixed modules of 1220 mm x 610 mm (48" x 24") and 1220 mm x 406 mm (46" x 16"). Non standard modules are available upon request.



Main Carrier

Main Carrier is 39 mm high double web section with 24 mm flange. Both ends of the main carrier have integral splices which can be joined firmly and shall not be separated with a force exceeding 100 kgf. Hanger holes are 6 mm diameter punched on the web at every 600 mm interval. Horse Shoe Slots with Cross Tee "H" Slots are punched accurately on the body for the following modules:

1200 x 610 mm (48" x 24") Module - 305 mm (12") from both ends & 610 mm (24") in between slots
1200 x 406 mm (48" x 24") Module - 203 mm (8") from both ends & 610 mm (16") in between slots

Cross Furring Channel

Cross Furring Channel is a 1220 mm (48") long splayed top-hat section. It has pre-engineered clip-in splices at both ends for easy fixing to the horse shoe slots of the main carriers. The underside of the channel is deeply knurled to facilitate easy penetration of dry wall screw for fastening of selected board. When properly slotted to the main carrier, the underside of the channel and the main carrier flange will be flat to receive the board without undulating effect.

Structural Performance

The system has been tested as a Heavy Duty System according to ASTM C-635 classification. It can achieve a load of 23.8 kg/m without the mid span deflection exceeding 3.3mm (L/360) according to ASTM C-635 procedure.

The permissible distributed loads based on 1220mm (48") hanger spacing for the system are 23 kg/m² for 1220 x 460 mm (48" x 16") module.

In theory, the load carrying capability of the system can be enhanced by reducing the hanger distance and module size. But in practice, due to the limitation of a fixed module system, Mega Frame Furring System is not recommended for building board with weight exceeding 16.5 kg/m². It is therefore not suitable for a double layer ceiling system as weight of a double layer board is more likely exceeding 16.5 kg/m². In this situation, please consult the manufacturer for recommendation of an alternative furring system.

Physical Properties

The components of the system are rollformed from a Prime Quality Hot Dipped Galvanised Steel to BS 2989 and JIS 3302 Standards.

Tensile Strength of Metal	: 270 N / mm ²
Zinc Coating or AZ 100 (both sides)	: Z10 (100g / m ²) Alu Zinc Coil
Surface Finish	: Zero Spangle, Smooth & Chromated

Recommended Module for Different type of board

Board Type	Thickness (mm)	Approx. Weight/m ² (W)	Hanger Rod Distance (mm)	Furring Channel Distance (mm)	Load Factor Times (PDL/w)
Gypsum Board	10	9.0	1220	610	2.6
	12.5	11.5	1220	610	2.0
	15	13.8	1220	406	2.4
Calcium Silicate Board	6	7.0	1220	610	3.3
	9	9.0	1220	610	2.4
	12	12.5	1220	406	2.6
Fiber Cement Board	6	11.0	1220	1220	2.1
	9	16.5	1220	1220	2.0

The load factor is the number of times that the MegaFrame Furring system is able to carry the weight of the selected building board without the mid span deflection of the module exceed L/360 according to ASTM C-635 standard. It is simply obtained by dividing the permissible distributed load (PDL/W) of the selected module by the weight of the selected building board.

A minimum Load Factor (PDL/W) of 2 is recommended for all furring system installation. A safety factor of two times is necessary due to different weights of materials, variation of steel strength, labour imperfection and other constraints at job site that may affect the overall job performance.

Fire Protection

Mega Frame Furring Components are non-cumbustible according to BS 476 Part 20. When used with an approved building board, the composite ceiling system is capable of achieving a fire rating between 30-60 minutes according to BS476 Part 23.

The following fire rating of ceiling systems are listed for information only :

Materials	Thickness	Fire Rating
Fire Rating	1 layer 12 mm	30 Minutes
Gypsum Board	1 layer 15 mm	45 Minutes
Calcium Silicate	1 layer 6 mm	30 Minutes
	1 layer 9 mm	45 Minutes
	1 layer 12 mm	60 Minutes
Fiber Cement Board	1 layer 9 mm	30 Minutes
	1 layer 9 mm	45 Minutes

Different types of boards and products manufactured by different manufacturers vary in fire performance. Please consult the respective manufacturer for technical information and recommendation