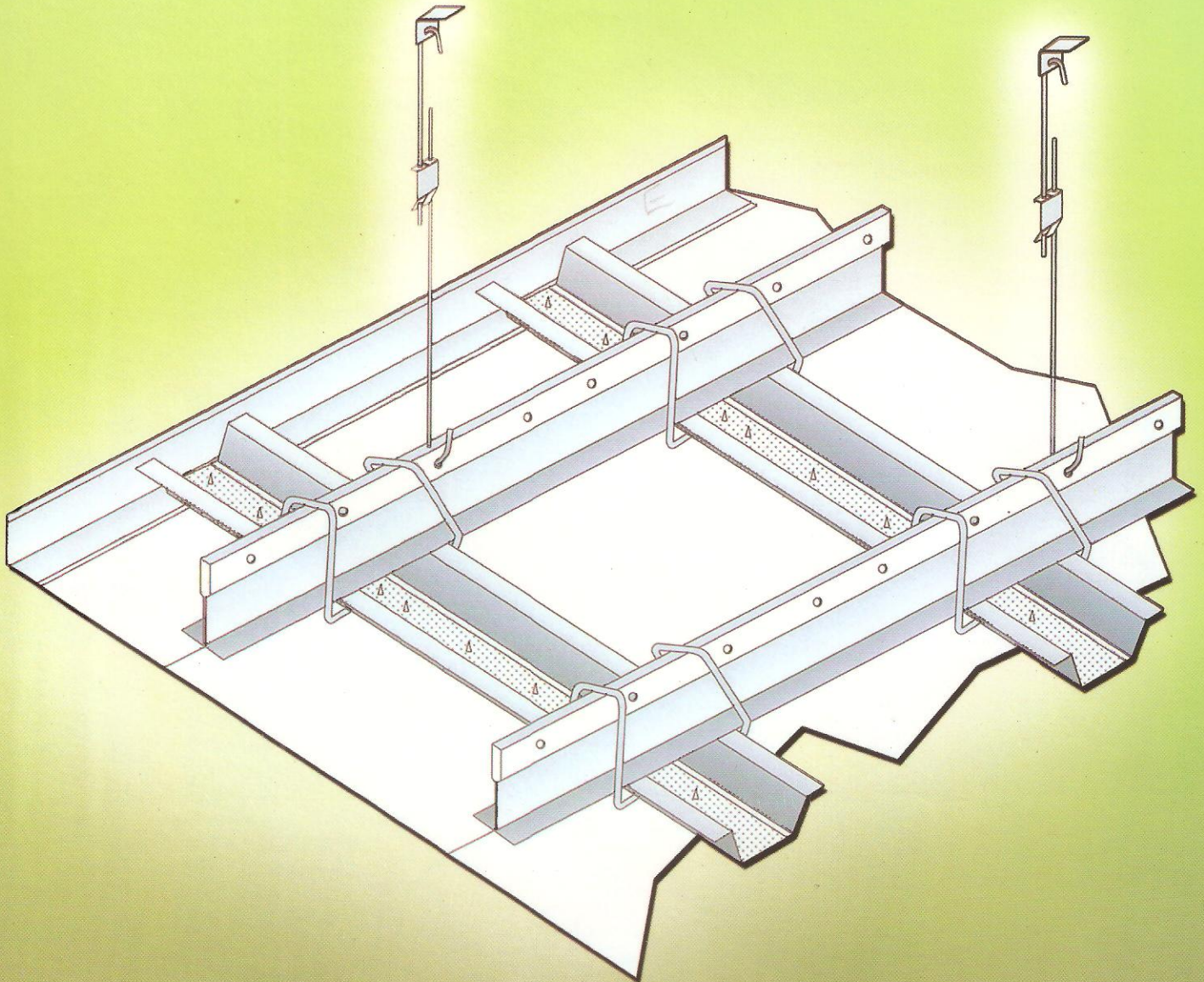


MegaFrame

Variable Module Metal Furring System



A Variable Module
Metal Furring System
for Gypsum, Calcium Silicate
& Other Building Boards

Manufactured by



FRAMEWORK

METAL PRODUCTS (PVT) LTD

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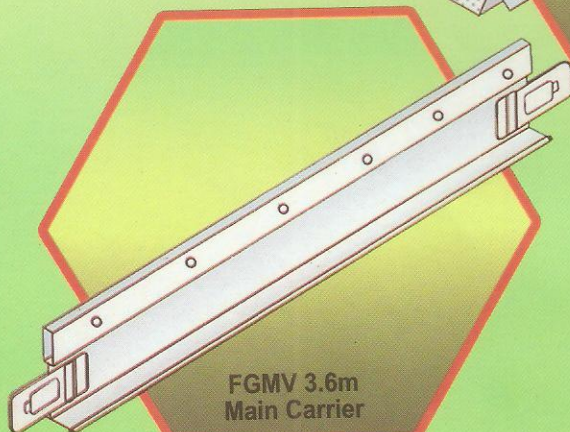
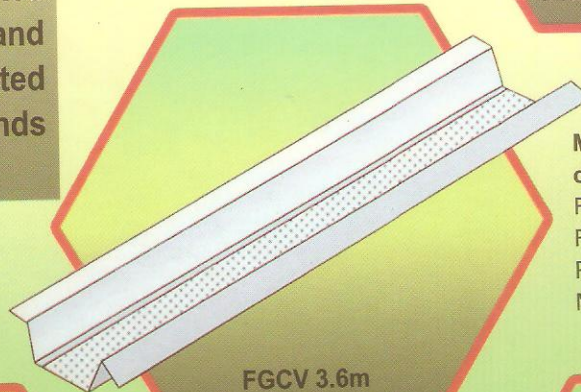
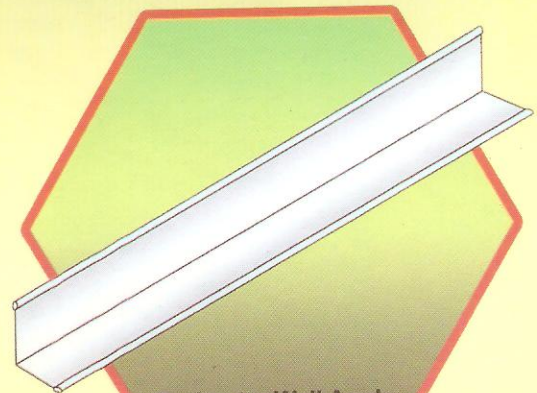
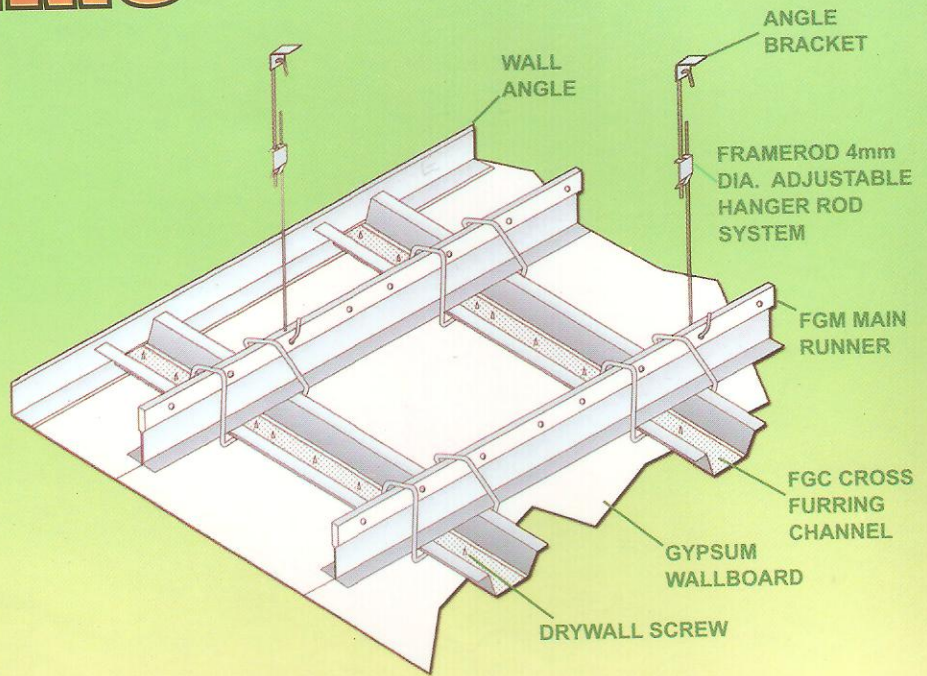
Web: frameworkmetal.com

MegaFrame

VM FURRING SYSTEM

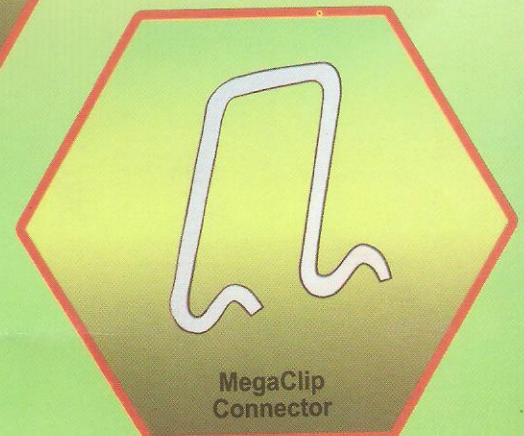
MegaFrame VM Furring System is a pre-engineered variable module metal furring system specially developed as an alternative to conventional timber and metal stud frames for concealed ceilings. It is designed for use with building boards made from gypsum, calcium silicate and fiber cement materials for a flat ceiling with no visible joints. It is also suitable as the suspension system for GRG (Glass Reinforced Gypsum) and Fibrous Plaster ceilings.

Being flexible, the system can be installed in modules to suit different weight and thickness of the selected building board for all kinds of job site situation.



MegaFrame VM Furring System comprises of 4 standard components:

- FGVM 3.6m Main Carrier
- FGVM 3.6m Furring Channel
- Perimeter Wall Angle
- MegaClip Connector





Physical Properties

The System is manufactured from a prime quality hot dipped galvanised steel coil to BS 2989 and JIS 3302 Standards with Z18 Zinc Coating (180g/m²)

Tensile Strength of Metal - 270 N/mm²
Zinc Coating (both sides) - Z10 (100g/m²)
Surface Finish - Zero Spangle, Smooth & Chromated

Structural Performance

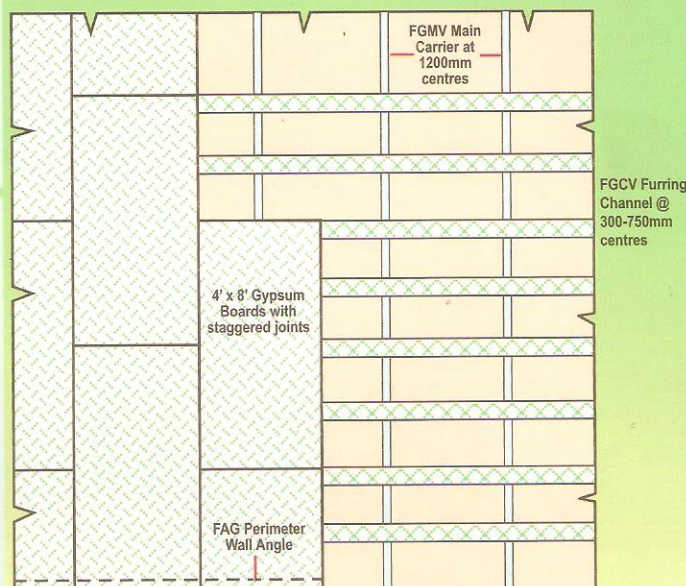
MegaFrame VM System has been tested as a Heavy Duty System with a certified load of 25kg/m according to ASTM C-635 classification.



PERMISSABLE DISTRIBUTED LOADS (PDL) (Kg/m²)

Suspension Centre : 1200mm using 4mm FrameRod

FGC Furring Channel	300 mm	450 mm	600 mm	750 mm
FGMV Main Runner	300 mm	450 mm	600 mm	750 mm
600 mm	85	66	42	32
900 mm	56	40	28	22
1200 mm	40	32	20	15



Typical Installation Layout

Recommended Module for Different type Board

Single Layer System

Board	Thickness (mm)	Approx Weight kg/m ²	Main Carrier Distance	Furring Channel Distance	Load Factor (PDL/w)
Gypsum Board	10	9.0	1200	600	2.22
	12.5	11.5	1200	450	2.78
	15	13.8	1200	450	2.31
Calcium Silicate Board	6	7.0	1200	750	2.14
	9	9.0	1200	600	2.22
	12	12.5	1200	450	2.56
Fiber Cement Board	6	11.0	1200	450	2.90
	9	16.5	1200	300	2.42
	12	22.0	600	450	3.00

Double Layer System

Board	Thickness (mm)	Approx Weight kg/m ²	Main Carrier Distance	Furring Channel Distance	Load Factor (PDL/w)
Gypsum Board	21	18.0	900	450	2.22
	25	23.0	900	300	2.86
	30	27.6	900	300	2.02
Calcium Silicate Board	15	16.0	1200	450	2.00
	18	18.0	900	450	2.22
	24	25.0	900	300	2.24
Fiber Cement Board	15	27.5	900	450	2.03
	18	33.0	600	450	2.00
	24	42.0	600	300	2.02

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 C635 standard. It is simply obtained by dividing the permissible distributed load (PDL/W) of the selected module with 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 one time 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.

To ensure a perfect installation, contractors are advised to check the weight of the selected building board accurately and tailor this weight to the selection of MegaFrame variable module with a load factor always exceeding 2.00.



Fire Protection

MegaFrame Furring Components are non-combustible 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 30-120 minutes according to BS476 Part 23.

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

Materials	Thickness	Fire Rating
Regular Gypsum Board	2 layers 25 mm	30 Minutes
	2 layers 30 mm	45 Minutes
Fire Reted Gypsum Board	1 layer 15 mm	30 Minutes
	2 layers 30 mm	60 Minutes
Calcium Silicate	1 layer 6 mm	30 Minutes
	1 layer 9 mm	45 Minutes
	1 layer 12 mm	60 Minutes
	2 layers 25 mm	120 Minutes
Fiber Cement Board	1 layer 9 mm	30 Minutes
	1 layer 12 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.

Component Specifications

Shape	Product Code	Section Height (mm)	Length (m)	Quantity Per Ctn (piece)	Weight Per Ctn (kg)
	Main Runner FGMV36	39	3.6	20	26
	Furring Channel FGCV36	18	3.6	20	26
	MegaClip MAMC01	40	-	500	10
	Wall Moulding FAG2424	24 x 24	3.6	40	35