



The Protektor MF Ceiling System is designed for use in most commercial applications.

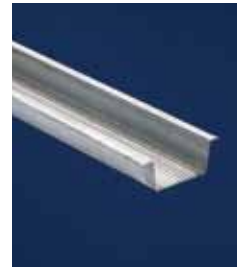
Whilst being an economical cost effective system, it still retains the quality of manufacture associated with the Protektor brand.

All the components meet or surpass current British and European standards and as such the contractors can construct a suspended ceiling with confidence.

### PERFORMANCE

The choice of board will be dependent on the performance required for both fire and sound insulation. Reference should be made to the National Building Regulations Approved Document and Building Standards (Scotland) Regulations before commencement of works. The board manufacturer's data sheets also offer valuable detail.

PP5



PP6



PP7



PP8



PP9



PP10



PP11



PP13



### GALVANISED STEEL

Ref	Description	Size mm	Length (mtr)	Quantity / box
PP5	Furring Channel		3.6	10
PP6	Edge Channel		3.6	10
PP7	Primary Channel	0.8	3.6	10
PP8	Strap Hanger		25m	
PP9	Connecting Clip			200
PP10	Angle Profile	25 x 25 x 0.80	3.6	20
5161	Angle Profile	25 x 25 x 0.60	3.0	20

### GALVANISED STEEL

Ref	Description	Size mm	Length (mtr)	Quantity / box
PP11	MF Nuts & Bolts			200
PP12	Cleats / Brackets			100
PP13	Acoustic Hanger	35		100
PP14	Acoustic Hanger	70		100
PP15	Primary Channel	1.2	3.6	10
6239	Steel Framing Screw	4.2mm x 13mm		1000

## SOUND INSULATION

High acoustic performance is generally associated with greater mass (i.e. multi-layers of board). Extra mineral wool, insulation and acoustic sealant may be required to meet the regulations. Reference to the board manufacturer's data sheets is recommended.

## FIRE RATING

A fire rating is achieved by a combination of type of board used, number of layers of board and insulation. Refer to manufacturer's data sheets. Protektor MF metal components are non-combustible when tested in accordance with BS476: Part 4: 1970.

A quality intumescent sealant should be used when sealing all perimeters.

## METHOD OF BUILD

Fix the perimeter edge channel at 600mm centres starting 50mm from the end of the channel, with appropriate fixings to the walls at the required height of the proposed ceiling.

Attach the Protektor soffit cleat to the structural soffit. Suspend the metal ceiling frame from the soffit cleats with Protektor angle or strap hangers. Fix the metal angle strap hangers to the Protektor primary channel with two pan head screws.

The angle strap hangers should be spaced at 1200mm along the length of each primary channel.

The centres of the primary channels are dependent upon the total loadings once the ceiling is completed.

Fix the Protektor ceiling furring channel at right angles to the primary channels and secure using Protektor connecting clip. Be sure to fix ceiling channels with pan head screws when a double layer of ceiling boards are required.

Hook the clips to the flange of the ceiling channel and snap fix onto the primary channel. The ceiling channel centres should be no greater than 450mm.

The chosen board can now be screw fixed to the frame. Refer to board manufacturers guidelines and data sheets for details.

The primary channel can be joined together by placing the two pieces back to back (overlap 150mm) and bolting together.

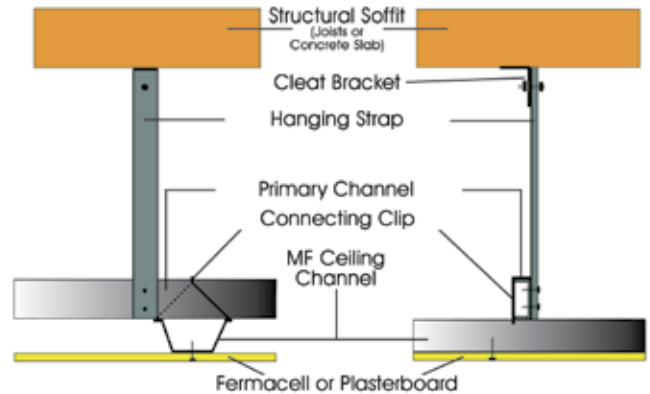
The ceiling channel is joined together by overlapping inside each other by 150mm and secured by crimping or screwing twice both sides of the overlap.

## CEILING CONSTRUCTION

Hanger Centres (mm)	Primary Channel Centres (mm)	Max. Load inc. Board (kg/sq.m)
1200	600	70
1200	900	48
1200	1200	32

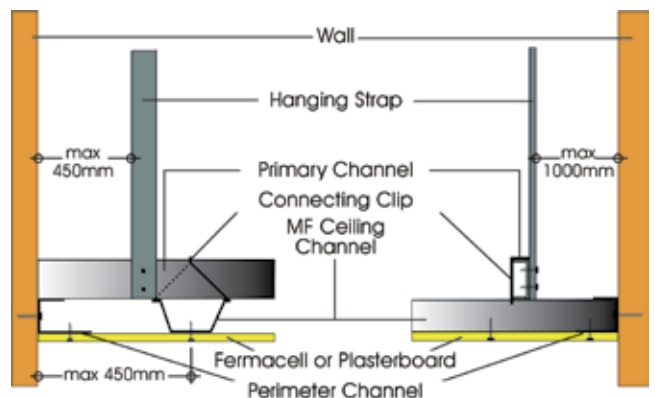
## APPLICATION DETAILS

Section through ceiling. Basic Assembly



## ABUTMENT TO WALL

Support for the ceiling channel is supplied by the perimeter channel screw fixed to the wall



## ELEMENTS OF CONSTRUCTION

