



PROFILES  
FOR MODERN  
BUILDING

# PROTEKTOR UK

SUSPENDED CEILINGS



# PROTEKTOR

PLASTER PROFILES | DRY WALL PROFILES | EXPANDED METAL

[www.protektor.com](http://www.protektor.com)



## SUSPENDED CEILINGS





# PROTEKTOR MF SUSPENDED CEILINGS



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.

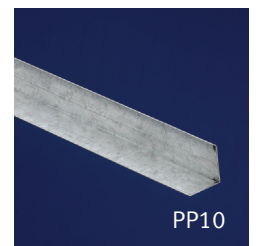
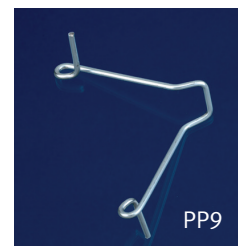
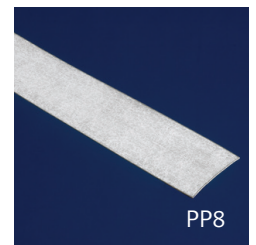
All the components meet or surpass current British and European standards and as such the contractors can construct a suspended ceiling with confidence.

## 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.

## MF SUSPENDED CEILINGS

Ref	Description	Size mm	Length metres	Qty/Pack
PP4	Furring Channel	0.6	3.0	10
PP5	Furring Channel	0.5	3.6	10
PP6	Edge Channel	0.5	3.6	10
PP7	Primary Channel	0.8	3.6	10
PP8	Strap Hanger	0.5	25	1
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
PP45	Angle Profile	50 x 25 x 0.70	3.0	10
PP50	Angle Profile	50 x 50 x 0.70	3.0	10
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 Sharp Point Framing Screw	4.2 x 13		1000
6236	Steel Jack Point Framing Screw	4.2 x 13		1000
6260	Steel Ceiling Dowel	6 x 45		100



## CEILING CONSTRUCTION

Max load inc board kg / m <sup>2</sup>	Hanger Centres mm	Primary channel centres mm
30	1200	1200
40	1200	900
60	1200	600
70	900	900

# PROTEKTOR MF SUSPENDED CEILINGS



## 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.

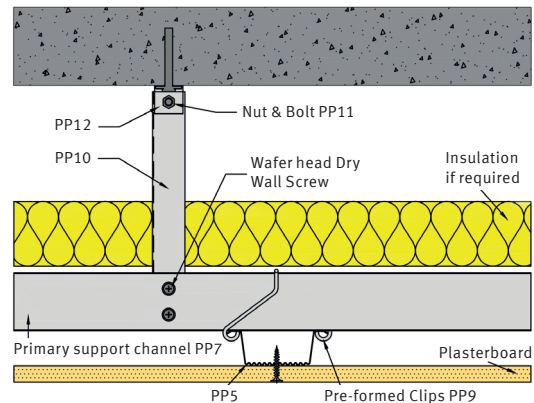
The chosen board can now be screw fixed to the frame. Refer to board manufacturers' guidelines and data sheets for details.

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.

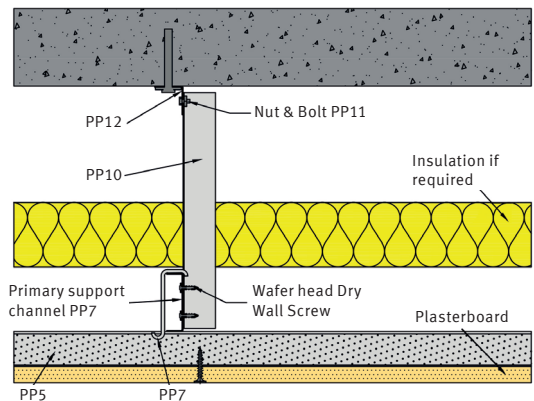
## APPLICATION DETAILS

### MF Ceiling - Standard Layout 'A'

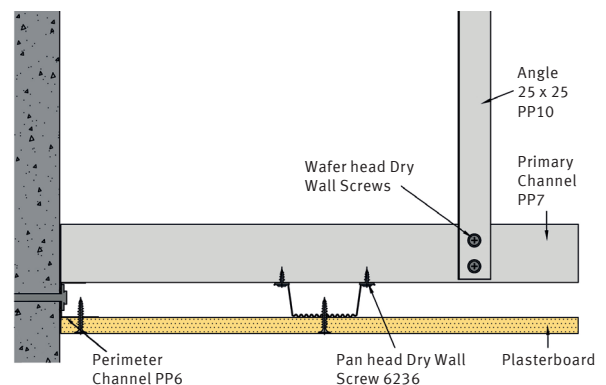


NOTE: Self-drilling dry wall pan head screws to be used in Domestic/ Residential Applications

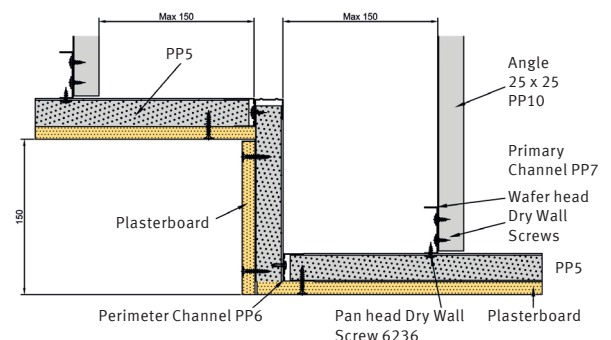
### MF Ceiling - Standard Layout 'B'



### MF Ceiling - Perimeter detail

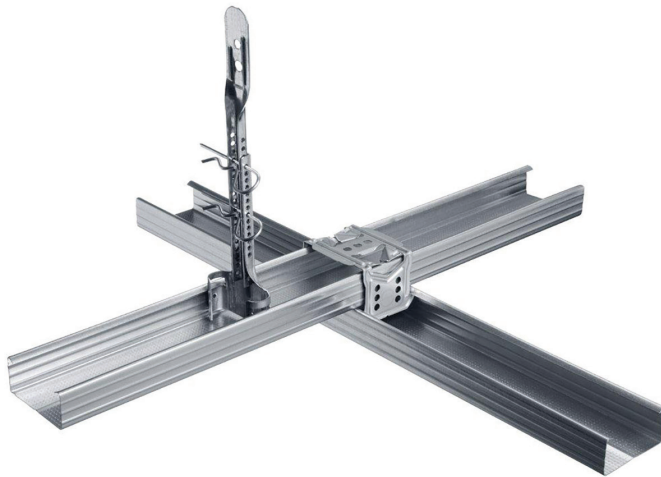


### MF Ceiling - Bulkhead detail





# PROTEKTOR K400 SUSPENDED CEILING RANGE



The K400 series ceiling systems are a range of solutions meeting today's demanding requirements.

This heavy duty (DIN Standard) system offers the contractor speed of installation and greater additional loadings.

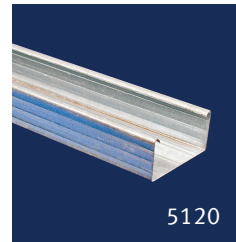
Even when the ceiling is arched or there are stringent requirements for soundproofing or fire prevention, Protektor has the right metal sub-structure to create the desired solution. This gives sustainable stability. It is seen by the contractor and felt by the installer. Our sub-structures for suspended ceilings, for example, are chosen by many architects because of the large degree of freedom they provide in creating their vision and in the choice of materials.

## K400 Galvanised Steel

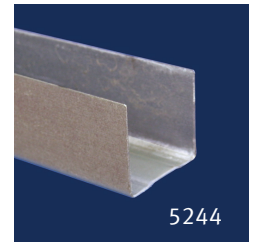
Ref	Description	Lengths	Qty/box
5120	CD Ceiling Profile 60 mm x 0.6 mm	3.0	
PP50	Angle Profile 50 mm x 50 mm x 0.7 mm	3.0	
PP601	Angle Profile 50 mm x 75 mm x 1.2 mm	3.0	
PP602	Angle Profile 50 mm x 75 mm x 2 mm	3.0	
PP603	Angle Profile 50 mm x 75 mm x 3 mm	3.0	
PP604	Angle Profile 50 mm x 50 mm x 3 mm	3.0	
PP605	Angle Profile 60 mm x 80 mm x 3 mm	3.0	
5168	U Perimeter Profile	3.0	
5179	U Perimeter Profile	3.0	
5242	U Perimeter Profile	3.5	
5244	U Perimeter Profile	3.0	
5072	Bogen Curved Ceiling Profile	4.0	
5114	Hat Ceiling Profile 48 mm x 15.5 mm x 0.6 mm	4.0	
6001	Slotted Metal Strip 20 mm x 1.5 mm	50	1
6011	Nonius Hanger for use with HD T Profile		100
6012	Nonius Hanger		100
6013	Nonius Hanger for use with UA-50 or 50 mm x 50 mm Timber Batton		100
6014	Nonius Hanger for use with CD 60-27 Profile		100
6015	Nonius Hanger for use with Timber battons	0.2	100
6017	Nonius Hanger for use with K400 Arch		100
6018	CD Nonius Hanger		100
6032	Connector for Adjusting Strip		100
6078	Profile Connector		100
6093	Click Fix rail Runner Bracket		100
6100	Cross Connector for 5129		100
6102	Cross Connector		100
6199	Adjusting Clamp		100

### ADJUSTING STRIP FOR NONIUS HANGERS

Ref	Length(m)	Qty/box	Ref	Length(m)	Qty/box
6020	0.1	100	60211	1.1	50
6021	0.2	100	60212	1.2	50
6022	0.3	100	60213	1.3	50
6023	0.4	100	60214	1.4	50
6024	0.5	100	60215	1.5	50
6025	0.6	100	60216	1.6	50
6026	0.7	100	6019	1.7	50
6027	0.8	100	60218	1.8	50
6028	0.9	100	60219	1.9	50
6029	0.1	100	60220	2.0	50
			60222	2.2	50
			60223	2.3	50
			60225	2.5	50
			60230	3.0	50
			6031	3.0	20



5120



5244



6018



6020 - 6029



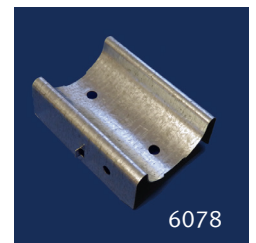
K400 Hanger Connection



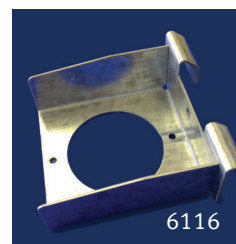
6199



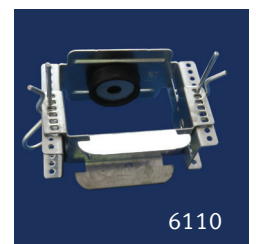
6102



6078



6116



6110

# PROTEKTOR K400H CONSTRUCTION DETAILS



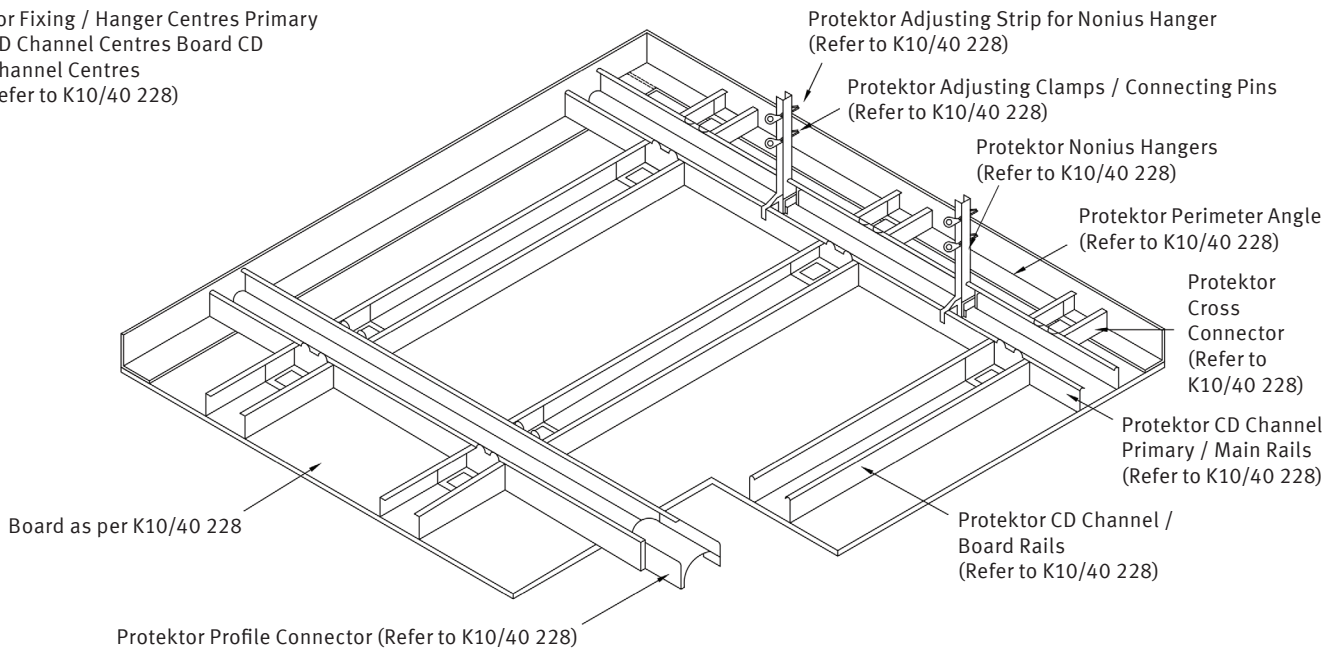
Protektor K400H Grid Construction provides a low level - single tier construction method when installing the K400.

The grid can be installed quickly and by using the 6116 bracket can easily provide surround support for the installation of access panels.

Widely used in Fire Protection, the K400H is recommended by a number of specialist passive fire protection board manufacturers.

The Coated C3 & C5 range of profiles and accessories would be recommended for External or High Humidity areas where corrosion resistance would be required.

For Fixing / Hanger Centres Primary  
CD Channel Centres Board CD  
Channel Centres  
Refer to K10/40 228)



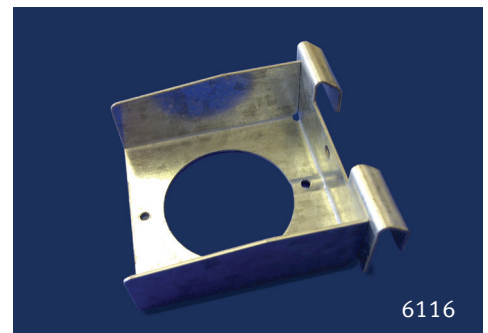
## ADDITIONAL NOTES:

Board Rail / Channel to be set 100mm from Perimeter Edge

Primary Board Rail / Rail to be set at 100mm from Perimeter / Edge

## WEIGHT LOADING

	Hanger Centres mm	Primary Profile Centres mm	Board Profile Centres mm
32 Kg/m <sup>2</sup>	750	750	400 - 600
48 Kg/m <sup>2</sup>	650	750	400 - 600
70 Kg/m <sup>2</sup>	600	600	400 - 600
85 Kg/m <sup>2</sup>	500	600	400 - 600





# PROTEKTOR K400 CONSTRUCTION DETAILS



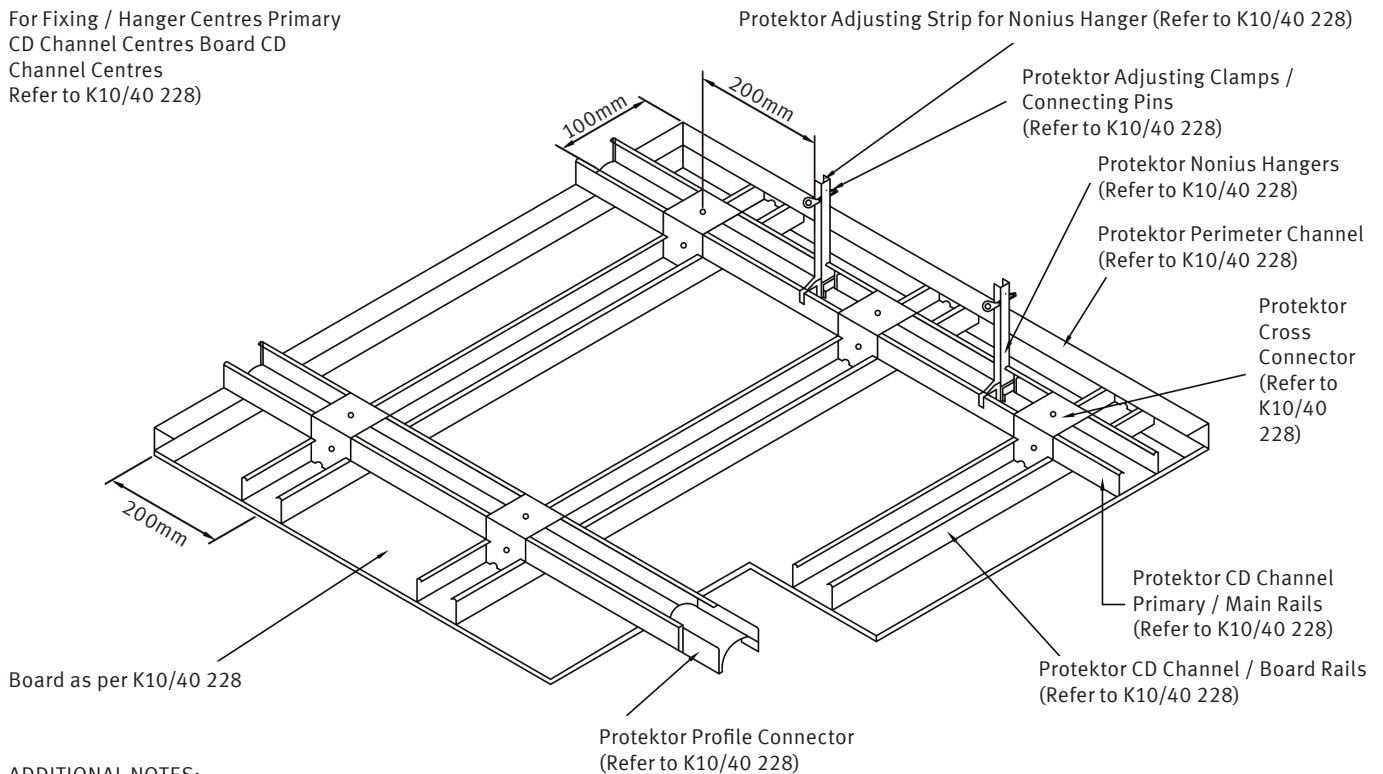
Protektor K400 Suspension Ceiling Grid can be calculated and designed to accept loads of up to 120 kilos / m<sup>2</sup> where multiple layers of high density boards are to be installed.

The two-tier grid system uses Nonius Hangers that offer multiples of 5 mm adjustment enabling the installer to level the ceiling with ease and speed all locked into place with the use of 6199 adjusting pins. In addition to the standard ceiling the range can also be used in curved applications by using the Bogen suspension profile 5072 with top hat section 5114

For areas where Anti Vibration and Acoustic Control is required, please ask for details of our new Nonius 6530 Silencio range.

The Coated C3 & C5 range of profiles and accessories would be recommended for External or High Humidity areas where corrosion resistance would be required.

For Fixing / Hanger Centres Primary  
CD Channel Centres Board CD  
Channel Centres  
Refer to K10/40 228)



## ADDITIONAL NOTES:

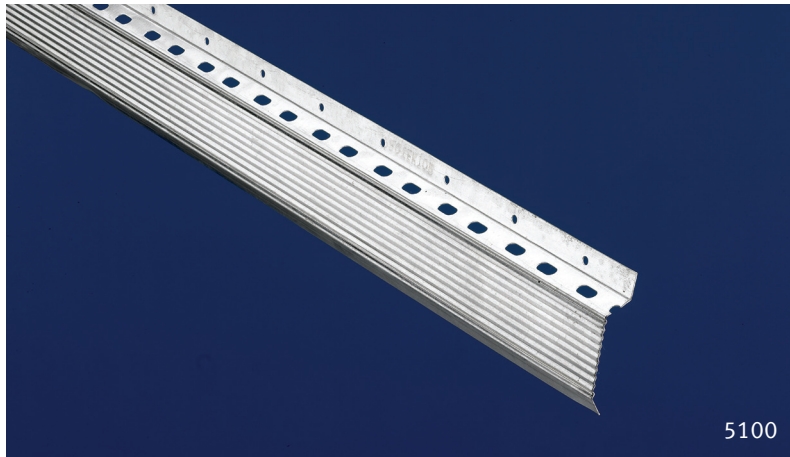
Board Rail / Channel to be set 100mm from Perimeter Edge  
Primary Board Rail / Rail to be set at 100mm from Perimeter / Edge

## WEIGHT LOADING

	Hanger Centres mm	Primary Profile Centres mm	Board Profile Centres mm
32 Kg/m <sup>2</sup>	750	750	400 - 600
48 Kg/m <sup>2</sup>	650	750	400 - 600
70 Kg/m <sup>2</sup>	600	600	400 - 600
85 Kg/m <sup>2</sup>	500	600	400 - 600



# PROTEKTOR RESILIENT BAR PROFILES



Protektor Resilient Bar Profiles are designed to improve the sound insulation of plasterboard walls and ceilings whether used in new build or in the improvement of existing constructions. The profile assists in isolating the plasterboard from the supporting surface, hence reducing the area of contact and dissipating the level of sound transferring through the metal section. DIN Standard profile 5007 is particularly effective when supporting a greater mass or weight of board (max 50 kilos/m<sup>2</sup>) to assist in achieving higher levels of acoustic performance.

Care should be taken to ensure that fixings do not penetrate through the resilient bar into the timber joist as this will create flanking and reduce the performance of the profile.

## 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 work. The board manufacturer's data sheets also offer valuable detail.

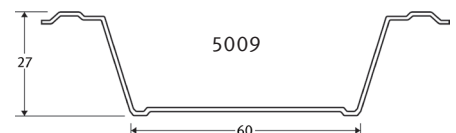
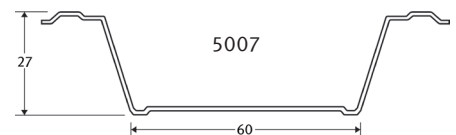
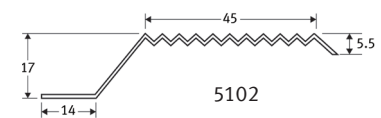
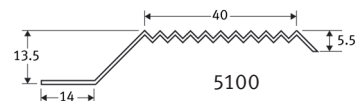
## METHOD OF BUILD

Fix resilient bars 90 degrees to stud work framing either to ceilings or walls. Fix with the narrow flange to the bottom and the fixing flange to the top using the desired fixing, with exception to the top bar which is fixed with the fixing flange at the bottom. For single boarded systems install at 400mm centres, for double boarded systems install resilient bars at 600mm centres. When installing to ceilings install resilient bars at 400mm centres.

Where abutting door openings, cut and install resilient bar noggins between horizontal bars to allow plasterboard to be fixed at the required centres.

## RESILIENT BAR

Ref	Description	Length (Metres)		Qty/Pack
		2.4	3.0	
<b>5100</b>	Standard Resilient Bar 40 x 13.5 x 0.6mm	•	•	10
<b>5102</b>	Resilient Bar 45 x 17 x 0.5mm		•	10
<b>5007</b>	DIN Standard Resilient Bar 60 x 27 x 0.6mm		•	10
<b>5009</b>	DIN Standard Resilient Bar 60 x 27 x 0.9mm		•	10



## RECOMMENDED FIXING



Flat Pan Head fixing 4.2mm x 35mm Dia best suited for fixing resilient bars and profiles through to timber joist.

The fixing compresses the profile or bracket to the joist without causing any ripping to the existing perforation.



## PROTEKTOR C3 COATED PROFILES FOR EXTERNAL APPLICATION



Protektor C3 Coated profiles are designed to meet the requirements for the suspension and support of exterior grade boards in External applications in soffit and wall applications.

The C3 coating meets with the requirements of ISO 12944 and provide a high level of anti-corrosion resistance.

The Suspension grid is manufactured to meet the requirements of wind load (suction and pressure), with all the specific information our Engineers are able to calculate the required centres for the suspension hangers and main supporting profiles ensuring a good level of support is provided.

Recommended areas for application are as follows:

- External soffits
- Canopies
- Cattle Sheds
- Car Parks
- Chemical processing plants

In coastal areas we recommend the use of the C5 range of profiles for a higher level of corrosion resistance.

Please note that the areas once completed still need to be checked for maintenance as per good site practise and with good planning and well located Protektor Access Panels damage to inspection areas can be reduced.



Ref	Description	Length (Metres)	Qty/Pack
<b>58102</b>	CD Ceiling Profile 60 mm x 0.6 mm	4.0	12
<b>58122</b>	U Perimeter Profile	3.0	16
<b>58168</b>	J Perimeter Profile	3.0	16
<b>C3-PP50</b>	L Angle Perimeter Profile 50 mm x 50 mm x 0.7 mm	3.0	10
<b>59014</b>	Top Hat Profile 10 mm x 15.5 mm x 48 mm	4.0	10
<b>C3-THG005</b>	Top Hat Profile 10 mm x 15 mm x 80 mm	4.0	10
<b>58121</b>	C3 - C5 Direct Fix Hanger 125 mm	0.125	100
<b>58159</b>	C3 - C5 Direct Fix Hanger 200 mm	0.2	100
<b>58108</b>	C3 - C5 CD Nonius Hanger		100
<b>58107</b>	C3 - C5 Adjusting Clamps		100
<b>58128</b>	C3 - C5 Click Fix Profile Clip		100
<b>58310</b>	C3 - C5 CD Direct Fix Adjustable Hanger		100
<b>58106</b>	C3 - C5 Hanger 190 mm	0.19	100
<b>58103</b>	C3 - C5 Profile Connector		100
<b>58104</b>	C3 - C5 Cross Connector		100
<b>58105</b>	C3 - C5 Safety Cross Connector		100
<b>58304</b>	C3 - C5 Quick Cross Connector for use with UA 50 profile		100
<b>58236</b>	C5 Jack point Pan Head screw 13 mm x 4.2 mm	1000	1000
<b>58239</b>	C5 Pan Head screw 13 mm x 4.2 mm	1000	1000
<b>58233</b>	C5 6.3 mm x 19 mm Self Drilling Screw (> 6.0 mm)	500	500
<b>58220</b>	C3 6 mm x 44 mm Ceiling Dowel with Nail Head	100	100
<b>58150</b>	C3 - C5 Spray Paint – Black	400 ml	1

### C3 - C5 ADJUSTING STRIP FOR NONIUS HANGERS

Ref	Length (m)	Qty/Pk	Ref	Length (m)	Qty/Pk
<b>58109</b>	0.1	100	<b>58123</b>	1.2	50
<b>58110</b>	0.2	100	<b>58124</b>	1.4	50
<b>58111</b>	0.3	100	<b>58119</b>	1.7	50
<b>58112</b>	0.4	100	<b>58125</b>	2.0	50
<b>58113</b>	0.5	100	<b>58126</b>	2.5	50
<b>58114</b>	0.6	100			
<b>58115</b>	0.7	100			
<b>58116</b>	0.8	100			
<b>58117</b>	0.9	100			
<b>58118</b>	1.0	100			

## PROTEKTOR C3 COATED PROFILES FOR WALLS AND SOFFITS

ISO 12944 Classification

C3

Typical Environments

Urban and industrial atmospheres PD300, Moderate Sulphur Dioxide levels

Protektor Grid Solutions

PD300

# PROTEKTOR C5 COATED SUSPENSION PROFILES



## PROTEKTOR C5 COATED RANGE FOR HIGH HUMIDITY AREAS



Protektor C5 Coated Profiles are designed to meet the requirements for the suspension and support of boards in High Humidity areas such as swimming pools and wet rooms.

The C5 coating meets with the requirements of ISO 12944 and provide a high level of anti-corrosion resistance.

PROTEKTOR UK also manufacture and supply a range of standard BS, DIN, bespoke and innovative new ranges of metal stud, track, drywall metal and PVC for wall and ceiling linings/partitions.

Please note that the areas once completed still need to be checked for maintenance as per good site practice and with good planning and well located Protektor Access Panels damage to inspection areas can be reduced.

A comprehensive range of C5 coated Drywall profiles for partitions, wall lining and bespoke applications are available to suit most applications.



Ref	Description	Length (Metres)	Qty/Pack
<b>58130</b>	C5 - C Ceiling Profile 60 mm x 0.6 mm	4.0	12
<b>58148</b>	C5 - U Perimeter Profile	3.0	16
<b>C5-THG005</b>	C5 - Top Hat Profile 10 mm x 15 mm x 80 mm	3.0	10
<b>59019</b>	C5 UA50 Profile	4.0	6
<b>58121</b>	C3 - C5 Direct Fix Hanger 125 mm	0.125	100
<b>58159</b>	C3 - C5 Direct Fix Hanger 200 mm	0.2	100
<b>58108</b>	C3 - C5 CD Nonius Hanger		100
<b>58107</b>	C3 - C5 Adjusting Clamps		100
<b>58128</b>	C3 - C5 Click Fix Profile Clip		100
<b>58310</b>	C3 - C5 CD Direct Fix Adjustable Hanger		100
<b>58106</b>	C3 - C5 Hanger 190 mm	0.19	100
<b>58103</b>	C3 - C5 Profile Connector		100
<b>58104</b>	C3 - C5 Cross Connector		100
<b>58105</b>	C3 - C5 Safety Cross Connector		100
<b>58304</b>	C3 - C5 Quick Cross Connector for use with UA 50 profile		100
<b>58236</b>	C5 Jack point Pan Head screw 13 mm x 4.2 mm	1000	1000
<b>58239</b>	C5 Pan Head screw 13 mm x 4.2 mm	1000	1000
<b>58233</b>	C5 6.3 mm x 19 mm Self Drilling Screw ( > 6.0 mm )	500	500
<b>58221</b>	C5 6 mm x 44 mm Ceiling Dowel with Nail Head	100	100
<b>58150</b>	C3 - C5 Spray Paint - Black	400 ml	1

### C3 - C5 ADJUSTING STRIP FOR NONIUS HANGERS

Ref	Length (m)	Qty/Pk	Ref	Length (m)	Qty/Pk
<b>58109</b>	0.1	100	<b>58123</b>	1.2	50
<b>58110</b>	0.2	100	<b>58124</b>	1.4	50
<b>58111</b>	0.3	100	<b>58119</b>	1.7	50
<b>58112</b>	0.4	100	<b>58125</b>	2.0	50
<b>58113</b>	0.5	100	<b>58126</b>	2.5	50
<b>58114</b>	0.6	100			
<b>58115</b>	0.7	100			
<b>58116</b>	0.8	100			
<b>58117</b>	0.9	100			
<b>58118</b>	1.0	100			



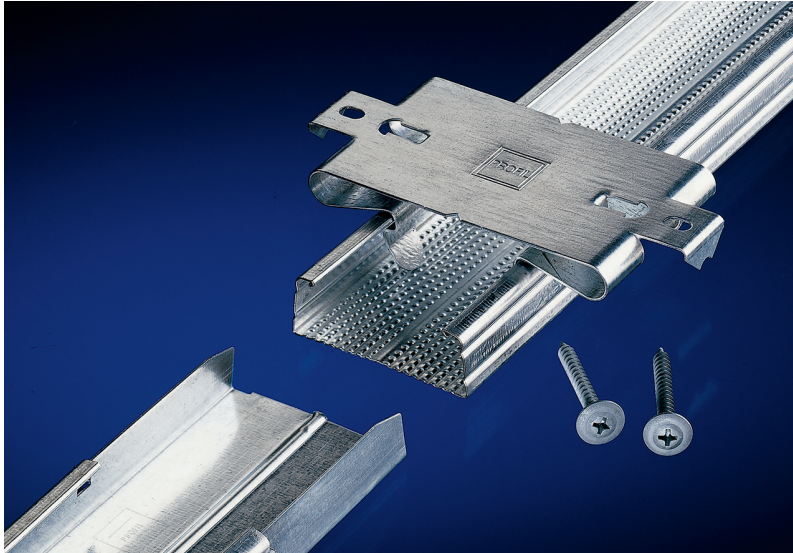
## PROTEKTOR C5 COATED PROFILES FOR WALLS AND SOFFITS

ISO 12944 Classification  
C5

Typical Environments  
Industrial areas with High Humidity and aggressive atmospheres

Protektor Grid Solutions  
PD310





The Protektor TPS 25 ceiling system is designed to enhance acoustic values and improve impact sound absorption. It is especially suited to timber joist ceiling constructions in houses, in timber frame constructions and refurbishment of old buildings.

The low construction height of 25mm, which corresponds to conventional timber batten fixing for cladding, does not require any change in design to utilise the system to replace timber battens.

The extra load capacity of the system enables the contractor to fix multi layers of board safely and also construct a secondary ceiling to accept extra services or down lighters. The system has been tested and accepted as a Robust Standard ceiling detail.

A 50 - 125mm void can be created by suspending profile 5109 from clip ref 6166. Profile 6166 must be fixed through the plasterboard to the main profile 5104 with a 55mm screw fixing, avoiding the main TPS Spring Clip - Ref. 6126.

Please Note: The TPS 25 System will allow access for cables, pipes, ventilation ducting and lighting up to a maximum weight of 50 kgs per square metre.

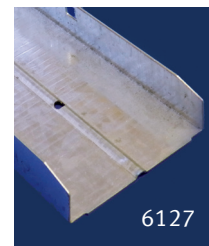
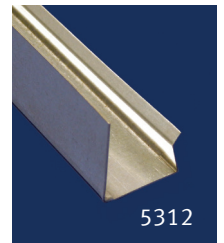
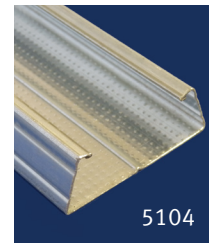
Any requirements in excess of this weight should be referred to the Protektor technical team.

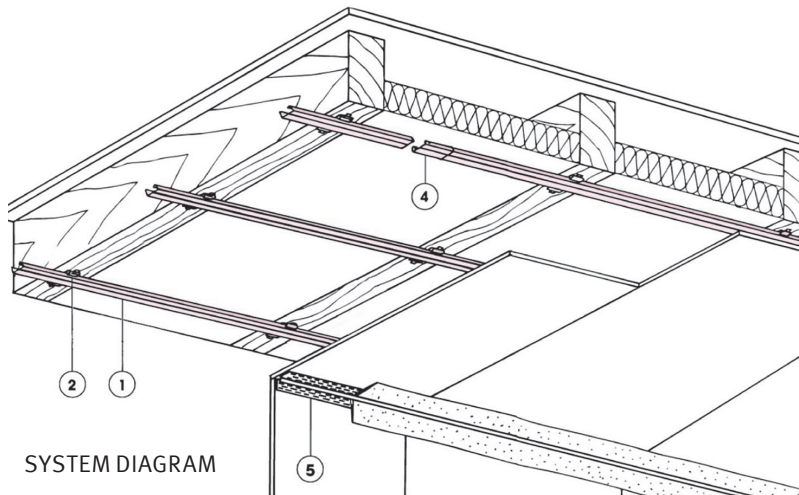
## FIXING INSTRUCTIONS

The TPS Spring Clip (Ref. 6126) is screwed with 2 timber screws (FN 4.2 x 38mm) on each side of the brackets to each timber joist at 400mm centres. (Screws are supplied with the clips). The centre of the clips should be marked out on each joist either by chalk line or laser.

## TPS-25

Ref	Description	Size mm	Length (Metres)	Qty/ Pack
<b>5104</b>	TPS - CD Profile	0.6mm	3.0	12
<b>5312</b>	U Perimeter profile	0.56mm	3.0	12
<b>3750</b>	PVCu Movement joint		75	1
<b>6126</b>	TPS Acoustic bracket			100
<b>6127</b>	TPS Profile connector			100
<b>6205</b>	25mm Trumpet head drywall screw	TN 3.5mm x 25mm		1000
<b>6206</b>	35mm Trumpet head drywall screw	TN 3.5mm x 35mm		1000
<b>6242</b>	38mm Pan head timber screw	FN 4.2mm x 35mm		200





- ✂ TPS CD-profile No. 5104
- ✂ TPS spring clip No. 6126
- ✂ Fixing FN 4.2 X 35mm No. 6242
- ✂ TPS CD compound No. 6127
- ✂ PVC movement profile No. 3750

The joists should be no greater than 700mm apart and the TPS - CD Profiles should be fixed to the joist line. The profiles are then connected to the clip by “offering up” the channel and applying pressure. The CD Profile will lock in to the Spring Clip.

At this point, ensure that the frame is level and flush with a laser or spirit level. Adjustments can be carried out by adjusting the fixing screws which hold the Spring Clip to the joist. Once level, bend the security tags on the clip over the head of the screws to prevent failure should excessive loads be applied to the fixing frame.

The Perimeter Channel ref 5312, which supports both the board and CD Profile, should be fitted as shown in the Diagram. Lay the boards at 90° to the CD Profile and fix using the board manufacturer’s screws at the recommended centres. The boards should be offset, so that joints are staggered. Cross joints reduce the strength of the system and should be avoided where possible.

At the ceiling/wall joint we strongly advise the use of movement joint Profile 3750. This should eliminate hairline cracking.

## ADJUSTMENT

Bend both vertical tabs on the TPS spring clips against the screw heads with a hammer. The screws can then be adjusted by moving the TPS spring clip down.

The maximum adjustment range for wood screws (4.2 x 35mm) is ≤ 5mm. Larger adjustments require prior installation of timber packer or beam leveling angles (No. 5569). It is recommended that the TPS-clip is made secure after adjustment.

## GENERAL INFORMATION

When installing to the inside of a roof or an inclined ceiling on wooden joists, consideration must be given to allow for the following unequal and non uniformed loads which can often lead to movement or twist on timber structures:

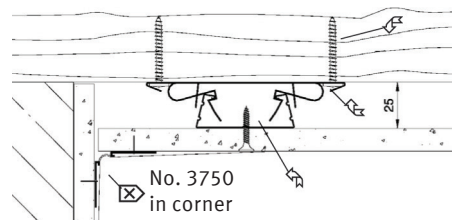
- Snow Load
- Furnishings
- Floor structure and ability to support ceiling structure
- Suction or pressure stress
- Pedestrian traffic

Movement in the timber construction can cause the metal parts of the substructure to rub together which subsequently can create a reduction in performance and potentially creating a squeak. The cross bracing of timber joists and engineered beams and the use of our profile PP15 fixed equally at 1/3rd intervals across the room at 90° to the joists should assist in providing lateral support. The profile should be fixed at each joist and is shallow enough not to interfere with the TPS ceiling profiles and brackets.

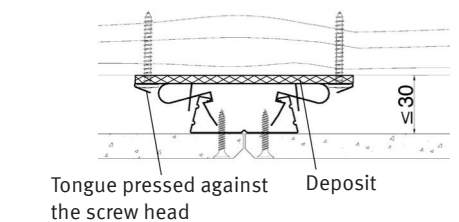
The refurbishment of existing ceilings often require the existing ceiling construction to be opened and inspected to ensure the correct installation can be made, but also to inspect and ensure that the existing structure can accommodate the additional ceiling lining. This is the responsibility of the contractor. No liability can be held by Protektor to ensure that the primary structure is suitable to support the TPS25 and corresponding linings.

For any additional information please contact the Protektor UK Technical Services Department.

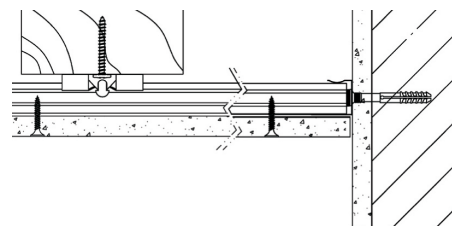
## DIRECT MOUNTING



## ADJUSTED ASSEMBLY



## WALL CONNECTION WITH U-PROFILE





# PROTEKTOR PLASTERBOARD FACED NON FIRE RATED ACCESS PANEL



Protektor Access Panels provide very low cost plasterboard faced protected openings in ceilings and walls for access to building engineering services where space is at a premium. This panel produces a lightweight, robust solution that can be used in all types of wall or ceiling construction. Outwardly the door face can be skimmed or tape and jointed for a minimalist aesthetic. The locking mechanisms are two spring loaded latches that open and close by applying pressure to the latch side of the door.

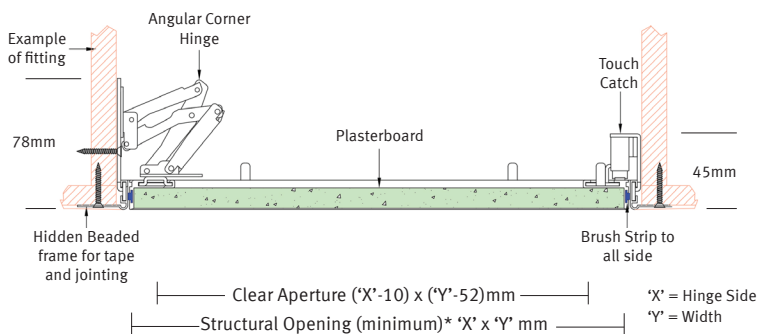
This panel has a beaded frame type (SBF) with perforated flange to key into the surrounding membrane. This is used where the surface has yet to be skimmed or tape and jointed.

Around the edges of the door itself you will find draught reducing brushes that close the gap between door and frame when in the closed position to reduce air leakage.

Although a relatively inexpensive product it is packed with features and has real quality - we think this is the best plasterboard faced panel on the market today for giving a low priced, simple access point in a plasterboard construction.



## TECHNICAL AND FITTING DETAILS



Beaded Frame Ref No.	Picture Frame Ref No.	Size
54350	n/a	300mm x 300mm
54351	n/a	450mm x 450mm
54352	n/a	600mm x 600mm

**Door Tray & Frame:** Formed from 1.0mm and 1.2mm Zintec electrogalvanised mild steel with a 25mm wide perforated frame finished in polyester powder coat white RAL 9010 20% Glodd.

**Hinge & Lock Mechanism:** Factory fitted pin hinge. Push catch operated lock.

**Availability:** Standard stock sizes available 24 - 48 hours with Bespoke panels available on request

**Fitting Preparation:** Prepare a clear trimmed and protected opening in the structure 15mm larger than the ordered panel. Contact us for details.

**Fitting:** Screw fix using suitable screws through the pre-punched holes to all four sides of the frame. Use all fixing holes provided and the frame flange fixing holes. Finish the beaded frame in the same way as any plaster stop bead.

Make the plaster finish on the door face as neat as possible. Complete operation with door in frame where possible.

## OPERATION & MAINTENANCE

**Operation:** Simply push the door face to operate the touch catch lock system.

**Maintenance:** Avoid abrasive cleaning materials. Annually or more frequently if used very regularly check the operation, especially the hinge points. Tighten or oil as required.

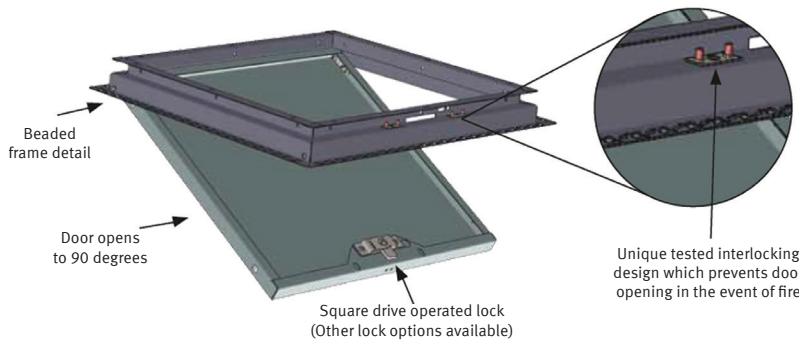
# PROTEKTOR FIRE RATED F60 ACCESS PANELS



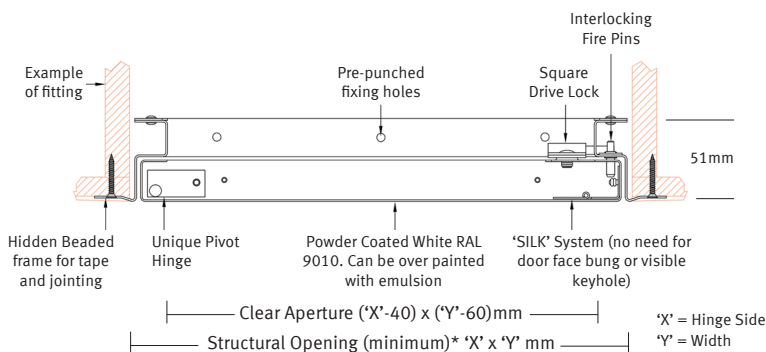
Fire Rated Access Panels provide fire rated protected openings in ceilings and walls for access to building engineering services. Available fire rated up to 2 hours, the doors are finished in powder coated white and can be over painted to blend with the surrounding surface.

The larger panels have full length piano hinges with the smaller panels using unique pivot hinges. The Fire Rated Access Panel is a high quality robust solution suitable for everyday use and fitted with the 'SLIK' invisible keyhole giving your client all the discrete advantages possible with an access panel.

There are two frame options for the Fire Rated Range. A beaded frame type (SBF) with perforated flange to key into the surrounding membrane. This is used where the surface has yet to be skimmed or tape and jointed. Or the picture frame, (PF), where the solid flange sits on the surface of the wall or ceiling. This covers the cut edge of the aperture and is used when the surface has already been finished and decorated. The fire rating does not affect the appearance of the panel, and the unique design enables panels to be fire rated, without using heavyweight layers of plasterboard, which can effect operation.



## TECHNICAL AND FITTING DETAILS



Beaded Frame Ref No.	Picture Frame Ref No.	Size
54353	54380	150mm x 150mm
54354	54381	200mm x 200mm
54355	54382	300mm x 300mm
54356	54383	450mm x 450mm
54357	54384	550mm x 550mm
54358	54385	600mm x 300mm
54359	54386	600mm x 600mm

**Door Tray & Frame:** Formed from 1.0mm and 1.2mm Zintec electrogalvanised mild steel with a 25mm wide frame either perforated or solid finished in polyester powder coat white RAL 9010 20% Gloss.

**Hinge & Lock Mechanism:** Factory fitted removable pivot hinge with inserted steel pins located into holes in the frame or continuous piano hinge to larger panels. Square drive operated lock riveted to the return fold of the door tray with tongue locating into a slot in the frame. Keyhole concealed by the patented SLIK invisible keyhole system. Euro Cylinder and three point lock option also available.

**Availability:** Standard stock sizes available 24 - 48 hours with Bespoke panels available on request.

**Fire Rating:** Available with up to 1 hour or 2 hours fire rating. Fire testing undertaken independently by BM TRADA meeting both EN and BS standards in UKAS approved test laboratories. Certification available upon request.

**Air Tightness:** Thermally insulated and air-sealed options available, complying to building regulations parts L1 and L2, BS EN 12207:2000 BS EN 1026:2000.

**Acoustic Rating:** Available to a maximum reduction of 63 dB Rw. Testing carried out under laboratory conditions to BS EN ISO140-3:1995 by an independent test center. More information available on request.

**Fitting Preparation:** Prepare a clear trimmed and protected opening in the structure 10mm larger than the ordered panel.

When applicable create cutouts for pivot hinges approx 10mm x 6mm so pivot operation is clear.

**Fitting:** Screw fix using suitable screws through the pre-punched holes to all four sides of the frame. Use all fixing holes provided and the flange fixing holes in the SBF frame type. Finish the beaded frame in the same way as any plaster stop bead. Complete the operation with door in frame where possible. To remove the door from the frame remove the pivot hinge plate with a cross head screwdriver or unbolt the piano hinge. When refitting and after any installation ensure the pivot hinge plates are fully located and flat to the inside edge of the door tray, that the piano hinge nuts are tight and if fitted, the retaining chains are in place.

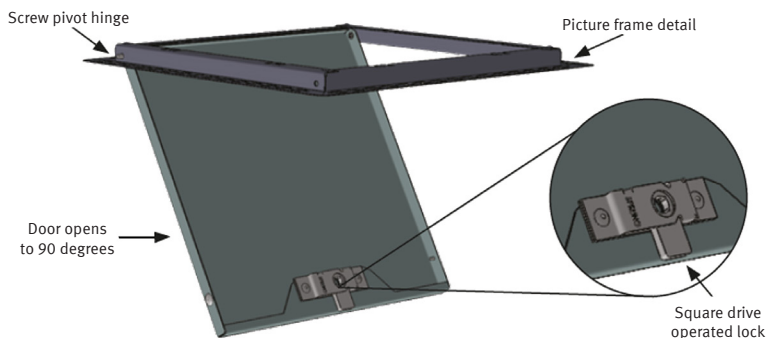
## OPERATION & MAINTENANCE

**Operation:** Using the "T" key supplied push the SLIK invisible keyhole system aside, engage the key into the lock then open and close while supporting the door. The SLIK system replaces itself automatically to conceal the keyhole.

**Maintenance:** Avoid abrasive cleaning materials. Annually or more frequently if used very regularly check the operation, especially the hinge points and lock. Tighten or oil as required.



# PROTEKTOR METAL FACED NON FIRE RATED ACCESS PANEL



Value Range Access Panels provide very low cost metal faced protected openings in ceilings and walls for access to building engineering services where space is at a premium.

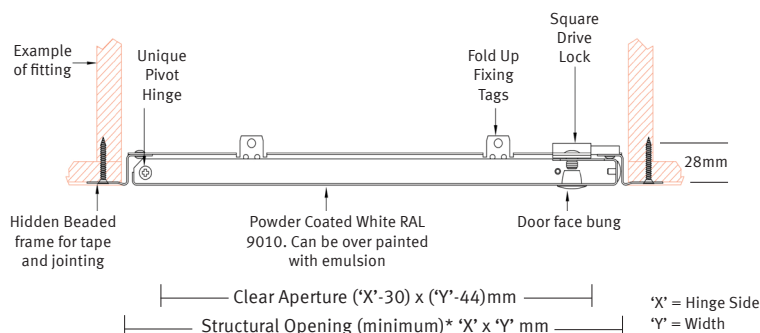
The narrow 18mm profile produces a lightweight, robust solution that can be used in all types of wall or ceiling construction.

Outwardly the panels resemble the Contract and Premium ranges and consist of a pivoting door tray and frame with square drive operated lock finished in powder coated white which can be over painted on site with emulsion to blend with the surrounding surface.

There are two frame options for this Range.

A beaded frame type (SBF) with perforated flange to key into the surrounding membrane. This is used where the surface has yet to be skimmed or tape and jointed. Or the picture frame, (PF), where the solid flange sits on the surface of the wall or ceiling. This covers the cut edge of the aperture and is used when the surface has already been finished and decorated.

## TECHNICAL AND FITTING DETAILS



Beaded Frame Ref No.	Picture Frame Ref No.	Size
54353	54380	150mm x 150mm
54354	54381	200mm x 200mm
54355	54382	300mm x 300mm
54356	54383	450mm x 450mm
54357	54384	550mm x 550mm
54358	54385	600mm x 300mm
54359	54386	600mm x 600mm

**Door Tray & Frame:** Formed from 1.0mm Zintec electro-galvanised mild steel with a 25mm wide frame either perforated or solid finished in polyester powder coat white RAL 9010 20% Gloss.

**Hinge & Lock Mechanism:** Factory fitted removable pivot screws located into holes in the frame. Square drive operated lock riveted to the return fold of the door tray with tongue locating over the edge of the frame when closed. Keyhole concealed by white plastic cap.

**Fire Rating:** Not available at time of printing. Other panels available, please see the Premium Range panels.

**Availability:** Standard stock sizes available 24 - 48 hours with Bespoke panels available on request.

**Air Tightness:** Not available at time of printing. Thermally insulated and air-sealed ranges available, complying to building regulations parts L1 and L2, BS EN 12207:2000 BS EN 1026:2000. See Premium Range Access Panel and Loft hatches.

**Acoustic Rating:** Not available at time of printing. Other panels available to a maximum reduction of 63 dB Rw. Testing carried out under laboratory conditions to BS EN ISO140-3: 1995 by an independent test center. See Premium Range Acoustic Access Panels.

**Fitting Preparation:** Prepare an opening 10mm larger than the ordered panel.

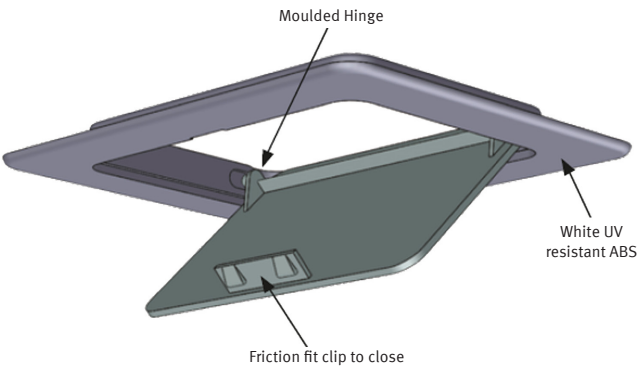
**Fitting:** Twist up and screw fix using suitable screws through the pre-punched fixing tabs to all four sides of the frame. Use all the available tabs and the flange fixing holes in the SBF frame type. Finish the beaded frame in the same way as any plaster stop bead. Complete the operation with door in frame where possible. To remove the door from the frame unscrew the pivot screws with a cross head screwdriver. When refitting ensure the pivot screws are fully located into the captive nuts fixed to the frame and that if fitted the retaining chains are in place.

## OPERATION & MAINTENANCE

**Operation:** Using the "T" key supplied, remove the white plug and engage the key into the lock. Support the door whilst opening and closing. Replace the white cap after use.

**Maintenance:** Avoid abrasive cleaning materials. Annually or more frequently if used very regularly check the operation, especially the hinge points and lock. Tighten or oil as required.

# PROTEKTOR NON FIRE RATED PLASTIC ACCESS PANELS



Plastic Access Panels provide a high quality low cost solution for access to building services in ceilings and walls. Primarily used in domestic situations for access to rodding eyes and stop cocks the panels are very simple to fit.

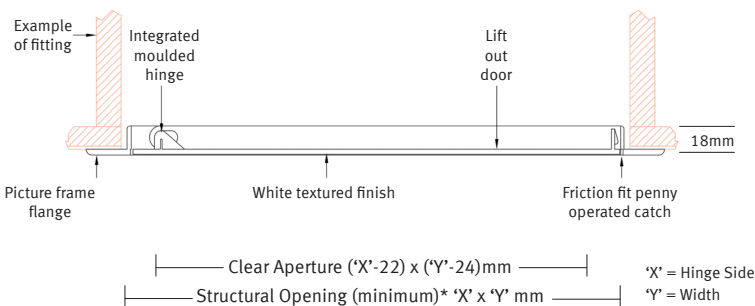
The narrow 17.5mm profile produces a lightweight solution that can be used in all types of wall or ceiling construction.

The panels are manufactured in the UK from UV stabilised ABS with a lightly textured surface that will not discolour and can be over painted.

Fitting using proprietary building adhesives or screws, the hinged removable door snaps in to place and has a positive quality action. Open with a screwdriver or coin in the visible slot opposite the hinge edge or use the key where the optional key lock has been specified.

Use as a repair panel to cover a hole in the back of a kitchen cupboard for access to a stop tap or as a visible designed detail to a rodding eye. The panel finishes an access point professionally and economically.

## TECHNICAL AND FITTING DETAILS



Beaded Frame Ref No.	Picture Frame Ref No.	Size
n/a	54420	110mm x 160mm
n/a	54421	150mm x 150mm
n/a	54422	150mm x 230mm
n/a	54423	200mm x 200mm
n/a	54424	300mm x 300mm

**Door Tray & Frame:** Moulded from UV stabilised ABS plastic with a 25mm wide picture frame to cover the cut edge of the aperture. Colour approximates to matt white RAL 9010 20% Gloss.

**Hinge & Lock Mechanism:** Moulded clip shut friction lock with integral pivot hinge locating into grooves in the frame.

**Fire Rating:** Not available to this range.

**Availability:** Standard stock sizes available 24 - 48 hours.

**Air Tightness:** Not available at time of printing. Thermally insulated and air-sealed ranges available, complying to building regulations parts L1 and L2, BS EN 12207:2000 BS EN 1026:2000. See Premium Range Access Panel and Loft hatches.

**Acoustic Rating:** Not available at the moment. Other panels available to a maximum reduction of 63 dB Rw. Testing carried out under laboratory conditions to BS EN ISO140-3: 1995 by an independent test center. See Premium Range Acoustic Access Panels.

**Fitting Preparation:** Prepare a clear trimmed and protected opening in the structure 5mm larger than the ordered panel.

**Fitting:** Use proprietary silicone or No Nails type adhesive to fix the panel in place. For ceiling applications it is recommended to drill through the internal frame section to achieve a mechanical fixing.

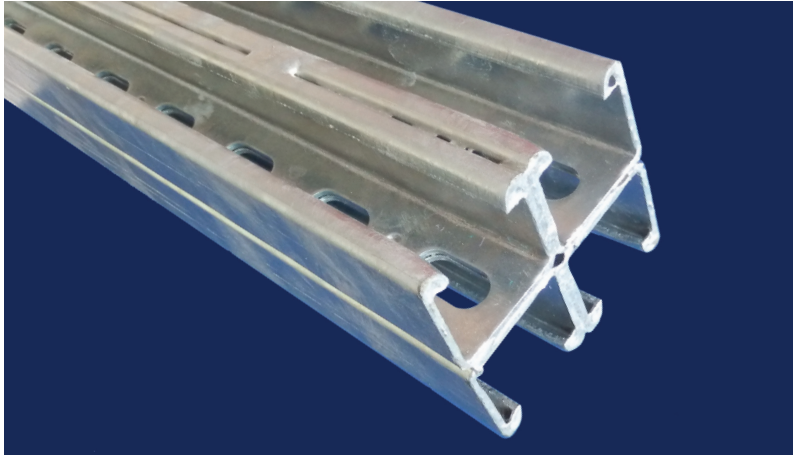
## OPERATION & MAINTENANCE

**Operation:** Use a coin or flat head screwdriver in the slot provided to prise open the door.

**Maintenance:** Avoid abrasive cleaning materials. Annually or more frequently if used very regularly check the operation.



# PROTEKTOR M & E SUPPORT CHANNEL



Protektor Pre Galvanised steel channel profiles manufactured to provide support systems for mechanical, electrical and plumbing installations.

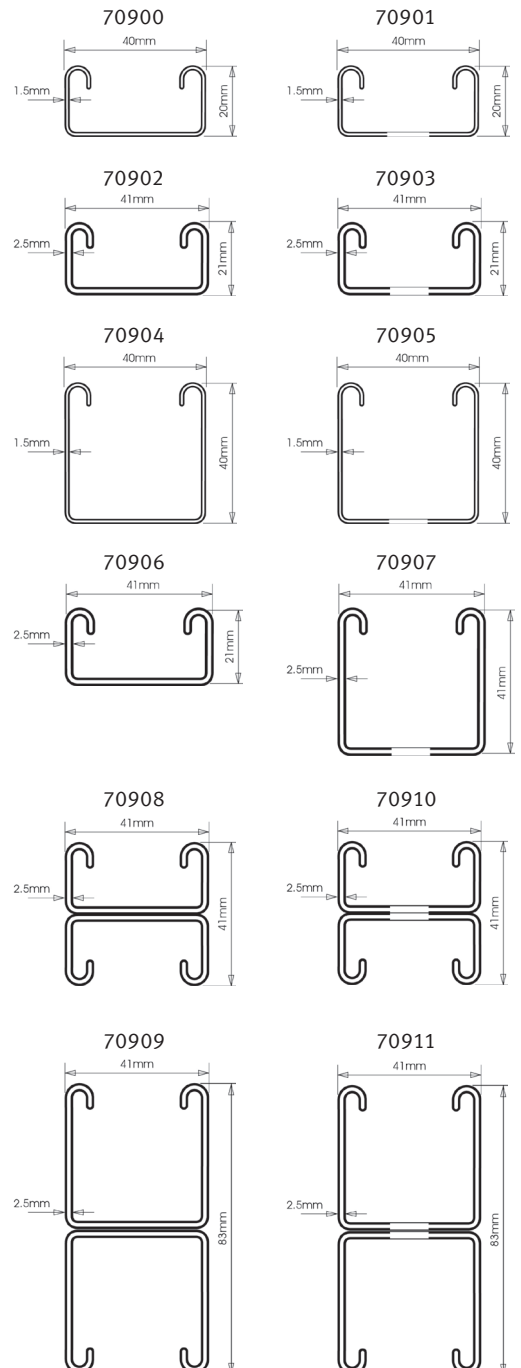
Profiles can be attached to existing steelwork or concrete inserts, or directly to walls, ceilings & floors using threaded rod and anchors etc.

Available in 1.5mm and 2.5mm thickness pre-galvanised or post dipped galvanised steel, and in either plain or slotted formats.

\* - denotes Post Galvanised finish

## SUPPORT CHANNEL PROFILE TYPES

Ref	Description	Length (Metres)		Qty/Pack
		3.0	6.0	
<b>70900</b>	40mm x 20mm x 1.5mm Plain	•	•	50
<b>70901</b>	40mm x 20mm x 1.5mm Slotted	•	•	50
<b>70902</b>	41mm x 21mm x 2.5mm Plain	•	•	50
<b>70903</b>	40mm x 20mm x 2.5mm Slotted	•	•	50
<b>70904</b>	40mm x 40mm x 1.5mm Plain	•	•	50
<b>70905</b>	40mm x 40mm x 1.5mm Slotted	•	•	50
<b>70906</b>	41mm x 41mm x 2.5mm Plain	•	•	50
<b>70907</b>	41mm x 41mm x 2.5mm Slotted	•	•	50
<b>70908</b>	* 41mm x 21mm x 2.5mm Plain Back to Back	•	•	50
<b>70909</b>	* 41mm x 41mm x 2.5mm Plain Back to Back	•	•	50
<b>70910</b>	* 41mm x 21mm x 2.5mm Slotted Back to Back	•	•	50
<b>70911</b>	* 41mm x 41mm x 2.5mm Slotted Back to Back	•	•	50





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