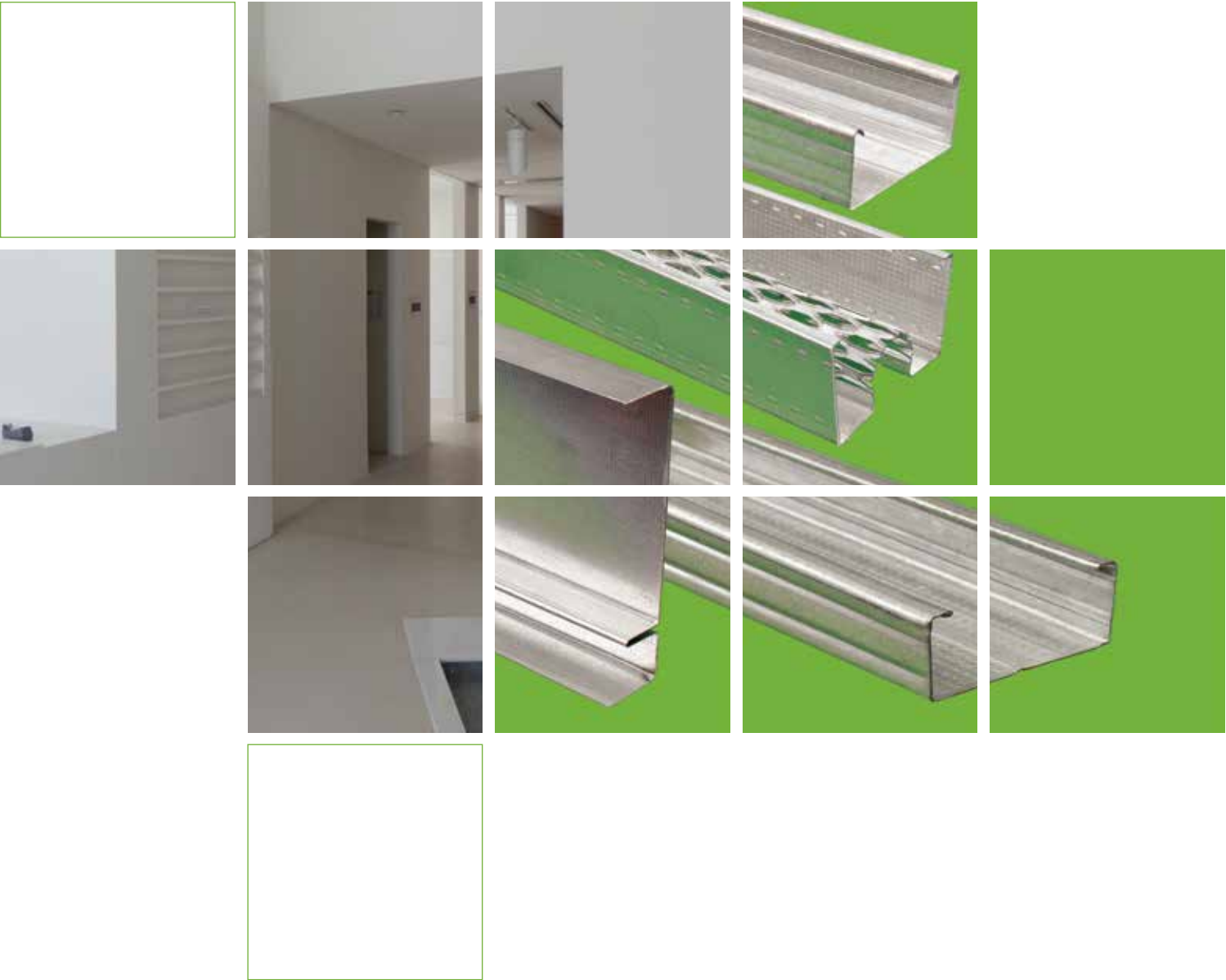
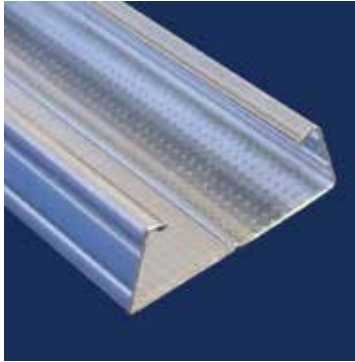
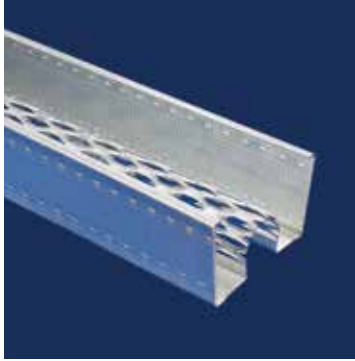


PROTEKTOR DIN STANDARD PROFILES





Protektor is one of the leading manufacturers of construction profiles in Europe, driven by a passion for efficient construction. This is deeply rooted in the history and culture of our company. Our objective is to supply the construction industry with functional, innovative, economical products.

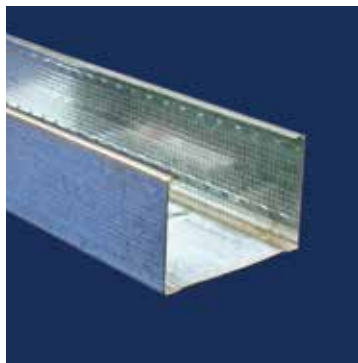
Protektor has been a family-owned business for over 100 years. Currently around 400 employees work at the head office in Gaggenau, Germany, and over 100 employees in the United Kingdom. Their heart and soul goes into creating a solid company to ensure a solid future on a European and global scale.

In Germany, Protektor galvanised steel stud and tracks are manufactured to DIN Standard 18186 EN10346. In addition to this, in the UK all of our profiles are manufactured to the latest British Standards.

All solutions provided by Protektor are backed with certification from independent test houses including **Sound Research Laboratories**, **Exova Warrington Fire** and the **BRE** to name but a few.

Protektor also offers powder coated galvanized steel components for use in corrosive atmospheres such as swimming pool environments and for external and semi external use.

DIN PROFILES FOR DRY LINING, CEILINGS & WALL LININGS



Partitioning

Stud profiles	4
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Isolation foam strip.....	6
Shaftwall	7

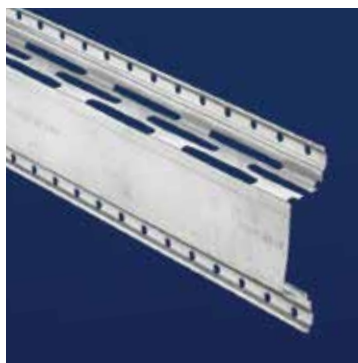


Wall lining

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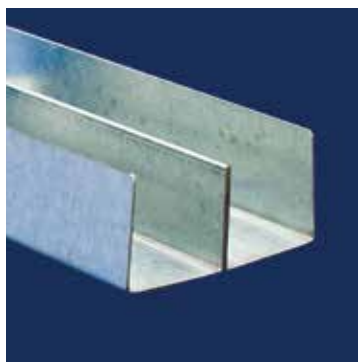
Door reinforcement

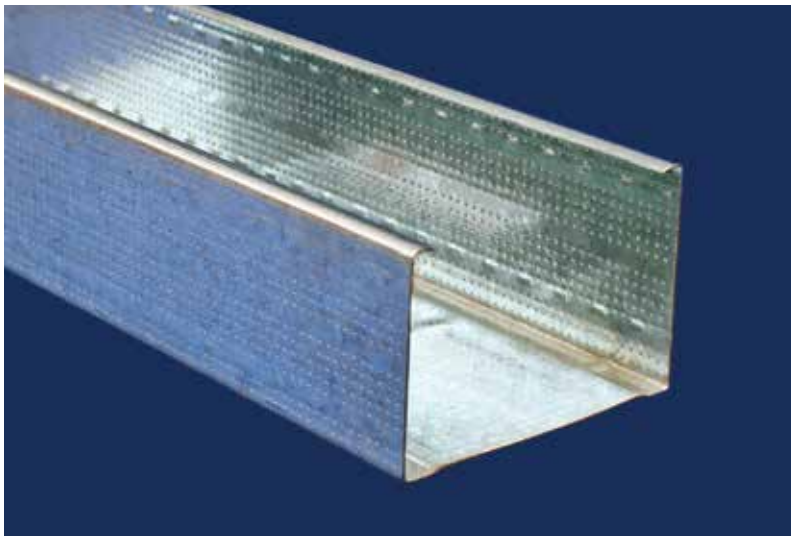
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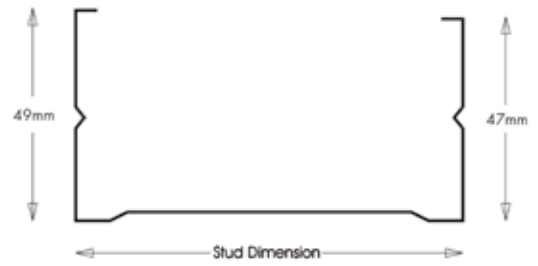
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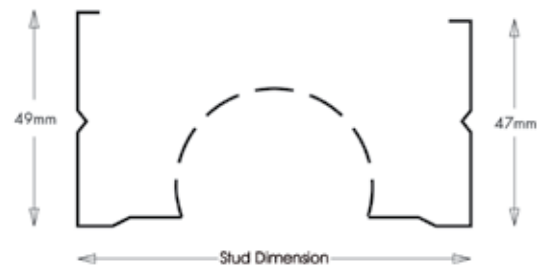




STUD PROFILE



ACOUSTIC STUD PROFILE



Protektor's unique range of DIN profiles for partitions are designed and manufactured to meet the most stringent of design requirements on site and provide the following benefits:

- 50mm fixing face
- Less margin for error when screw fixing
- Speedy installation
- Greater build heights whilst maintaining a narrow wall construction

The 50mm fixing face of the Protektor DIN range of profiles manufactured in 0.6mm thick steel, ensures that plasterboard, fibre board or cement particle board are installed efficiently. They also ensure that the build provides both robust construction and assist in maintaining the original performance criteria planned at design stage. Other profiles are also available in a variety of material thicknesses ranging from 0.6mm to 3mm and can be developed to meet most standard and bespoke requirements.

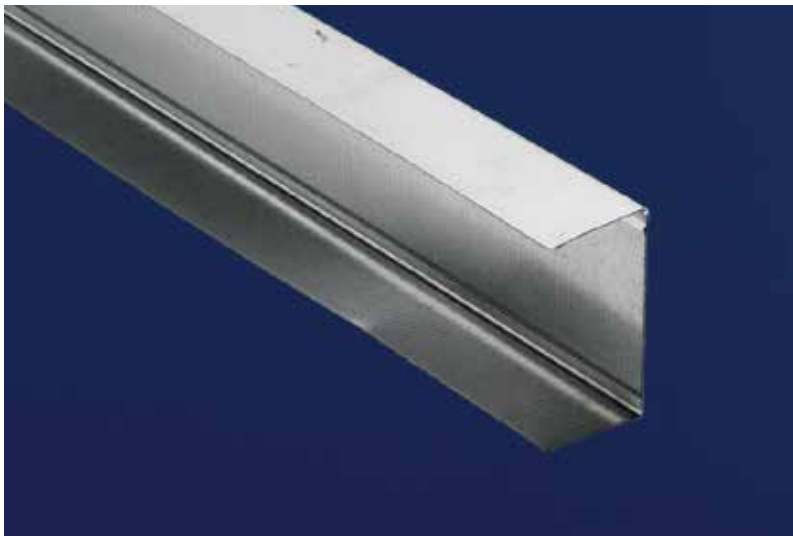
Splicing our DIN profiles could not be simpler. The profiles are manufactured so that they can be 'box spliced' without the need for additional fixings. The two studs are locked together with a friction fit.

0.6 mm Stud Profiles

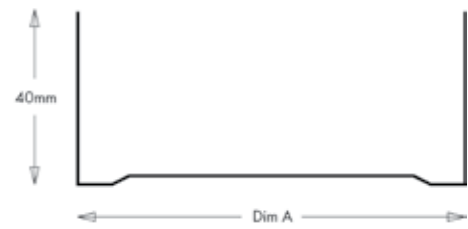
Galvanised Steel Description	Length							Qty/ Pack
	2.5	3.0	3.5	4.0	4.5	5.0	6.0	
5211 DIN Stud Profile 48.8 x 0.6mm	•	•	•	•				8
5215 DIN Stud Profile 73.8 x 0.6mm	•	•	•	•	•	•	•	8
5216 DIN Stud Profile 98.8 x 0.6mm	•	•	•	•	•	•	•	8
5141 DIN Stud Profile 123.8 x 0.6mm		•	•	•	•	•	•	8
5224 DIN Stud Profile 148.8 x 0.6mm		•	•	•	•	•	•	4
5615 DIN Acoustic Stud Profile 73.8 x 0.6mm		•	•	•				4
5616 DIN Acoustic Stud Profile 98.8 x 0.6mm		•	•	•				4
6411 PVC Grommits to suit Acoustic Stud								16

1.0 mm Stud Profiles

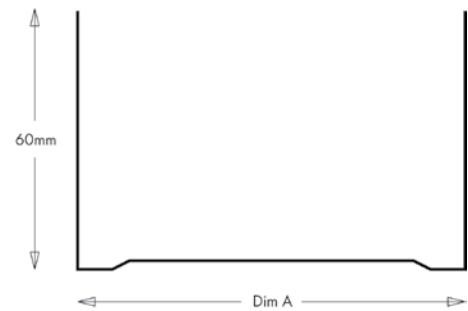
Galvanised Steel Description	Length		Qty/ Pack
	3.5	4.0	
5206 DIN Stud Profile 48.8 x 1.0mm	•	•	8
5207 DIN Stud Profile 73.8 x 1.0mm	•	•	8
5208 DIN Stud Profile 98.8 x 1.0mm	•	•	8



TRACK PROFILE



DEEP TRACK PROFILE



Protektor's range of DIN standard tracks are designed to work with our DIN profiles.

Standard and deep tracks are available with flanges of 40mm and 60mm height.

Our stock track gauge is 0.6mm but we can also produce bespoke track up to a thickness of 2mm gauge with varying flange depths.

There are feet on the Protektor track, which means that when you screw the base to the floor, it pulls the legs in so that it grips the stud. This makes assembly easier and the end result is more efficient and secure.

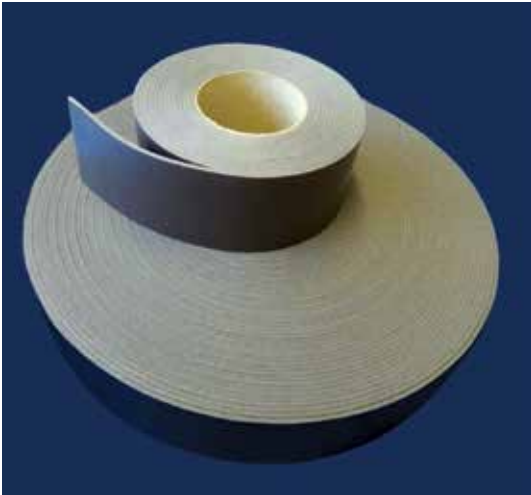
All DIN tracks can be supplied with an acoustic foam backing.

Standard Track

Galvanised Steel Description	Length		Qty/ Pack
	3.0	4.0	
5230 DIN Track Profile 40 x 50 x 40 x 0.6mm		•	8
5233 DIN Track Profile 40 x 75 x 40 x 0.6mm		•	8
5234 DIN Track Profile 40 x 100 x 40 x 0.6mm		•	8
5248 DIN Track Profile 40 x 125 x 40 x 0.6mm	•		8
5247 DIN Track Profile 40 x 150 x 40 x 0.6mm	•		4

Deep Track

Galvanised Steel Description	Length		Qty/ Pack
	3.0	4.0	
5236 DIN Track Profile 60 x 50 x 60 x 0.6mm		•	4
5237 DIN Track Profile 60 x 75 x 60 x 0.6mm		•	4
5238 DIN Track Profile 60 x 100 x 60 x 0.6mm		•	4
5239 DIN Track Profile 60 x 125 x 60 x 0.6mm	•		4
5240 DIN Track Profile 60 x 150 x 60 x 0.6mm	•		4



The reduction in flanking transmission is of primary importance when planning/designing a partition or ceiling construction. Flanking transmission is defined as sound from a source room but not via a common building element.

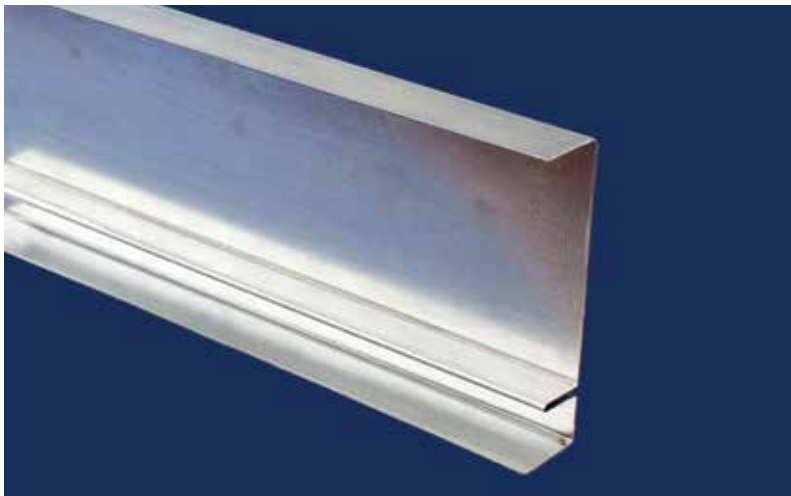
Protektor acoustic foam strip is designed to isolate the track or stud profiles from the substrate hence reducing the possibility of flanking transmission through the frame. Installed on the underside of the track when laying out and to the back of the stud profile when starting a frame from an existing wall or flat surface.

The foam strips are supplied in 30 metre rolls and are self adhesive on one side. They can be easily applied on site or, where requested at time of order, it can be pre-applied to the tracks ready for use on site.

ACOUSTIC ISOLATION STRIP



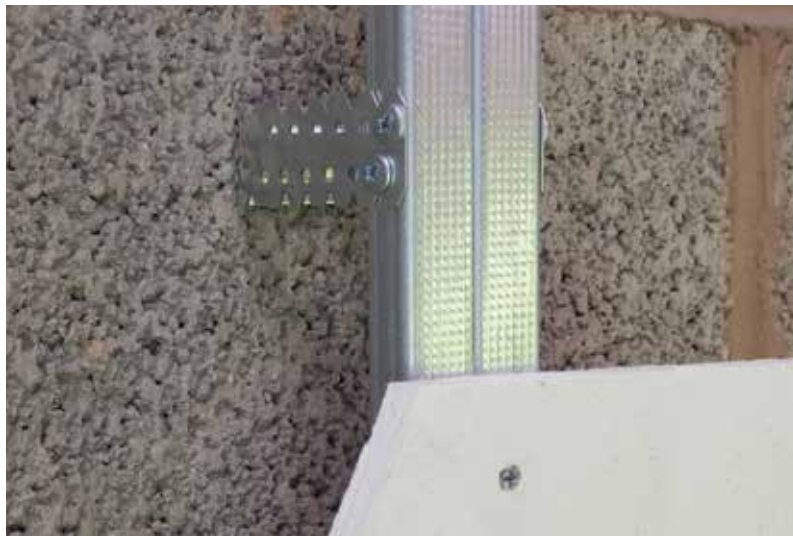
Galvanised Steel		Length
Description		
6197	Foam Isolation Strip 30mm x 3mm	30 metres
6194	Foam Isolation Strip 45mm x 3mm	30 metres
6195	Foam Isolation Strip 70mm x 3mm	30 metres
6196	Foam Isolation Strip 95mm x 3mm	30 metres



Protektor has developed a bespoke solution for shaftwall constructions, designed specifically for areas where a contractor cannot access both side of the partition. Our E profiles enable the contractor to construct the partition all from one side. The E profile holds the shaft side board in place without the need for screw fixings. The non shaft side boards are then attached with screws to the profile in the conventional manner. This system has been tested for both fire, acoustics and build height by independent testing houses. For full details on this solution please contact our technical department.

Shaftwall Profiles

Description	Galvanised Steel - to suit 15mm board	Length					Qty/ Pack
		3.0	4.0	4.5	5.0	6.0	
5910	Shaftwall E Profile 98.8 x 0.7mm		•		•		4
5910 x 2	Shaftwall Double E Profile 98.8 x 0.7mm		•		•		4
5980	Shaftwall E Profile 98.8 x 1.0 mm					•	4
5980 x 2	Shaftwall E Double Profile 98.8 x 1.0mm					•	4
5234	Track Profile 40 x 100 x 40 x 0.6mm						8
5238	Track Profile 60 x 100 x 60 x 0.6mm						4
5161	Angle Profile 25 x 25 x 0.60mm		•				10
6239	Steel Framing Screw 4.2 x 13mm						1,000
6236	Steel Framing Screw Drill Point 13 x 4.2mm						1,000
6196	Foam Strip 95 x 30 mtr						1



Protektor's universal lining system offers a fast, ideal solution for board applications to block/brick wall constructions. The board layer is held away from the supporting wall with our brackets and profiles. The resulting cavity enables the contractor to run services behind the board layer. For build heights and fire/acoustic ratings please contact our technical department. Features an adjustable bracket system.

Fixing Chart

Board	Bracket Centres	Wall Profile Centres	Duty Rating
1 x 10mm	600mm	400mm	Heavy
1 x 12.5mm	600mm	400mm	Severe
1 x 15mm	800mm	400mm	Severe
2 x 10mm	800mm	400mm	Severe
2 x 12.5mm	800mm	600mm	Severe
2 x 15mm	800mm	600mm	Severe

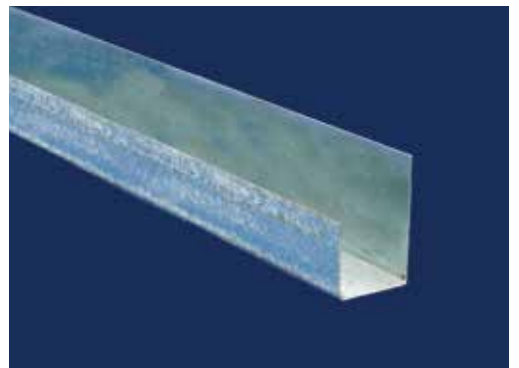
Wall Lining Profiles

Galvanised Steel		Length			Qty/ Pack
Description		2.4	3.0	3.6	
5109	CD Profile 47 x 17 x 0.6mm	•	•	•	10
PP20	U Perimeter / Track Profile			•	10
6168	75mm Direct Fix Hanger				100
6166	125mm Direct Fix Hanger				100
6125	CD Profile Connector				100
6120	95mm Timber Hanger				100
6121	190mm Timber Hanger				100

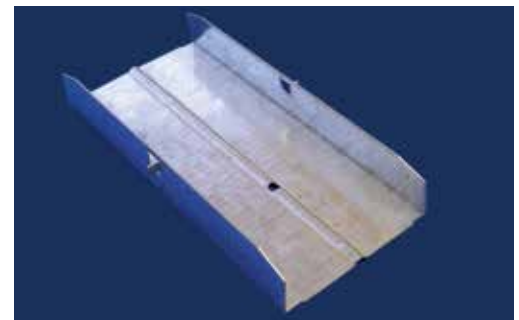
5109



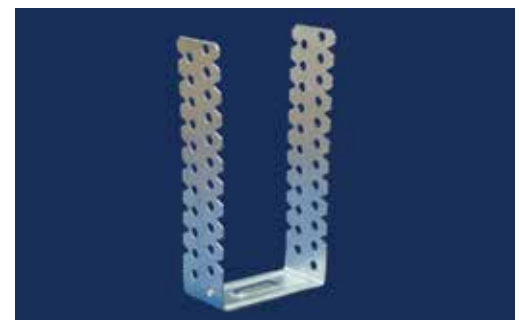
PP20



6125



6166 / 6168



HEAVY DUTY WALL LINING SYSTEM



The VCD wall lining system offers a fast, simple to build, method of constructing a steel frame to support a board lining system to solid wall constructions when greater thermal and/or sound requirements are needed.

Protektor's VCD system can be built to a height of up to 20 metres.

This heavy duty system can accommodate greater loads than a conventional wall lining system.

Brackets allow for adjustment of cavity size to allow for increased sound and thermal insulation.

5120 board rail has a 60mm fixing face, improving speed and accuracy of installation.

A central nip in the fixing face is designed for accurate board alignment.

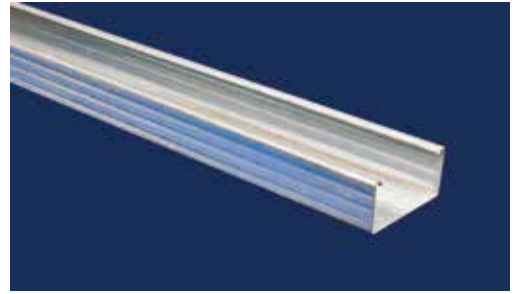
Method of Build

1. The wall brackets are vertically screw fixed back to the wall at 1250 centres (MAX).
2. The bracket nearest to the head should be no further than 60 mm from the top of the build.
3. Profile 5244 (floor track) with self-adhesive acoustic foam (Ref. 6191) stuck to the base should be now screw fixed into the floor.
4. Vertical runner (Ref. 5120) should now be friction fitted into the floor track and allowed to run between the two legs of the wall clip.
5. Using a level, check that the vertical profile (Ref. 5120) is "plumb" before locking the two components together with steel framing screws either side of the brackets. Protektor screw (Ref. 6239) is ideal for this purpose.

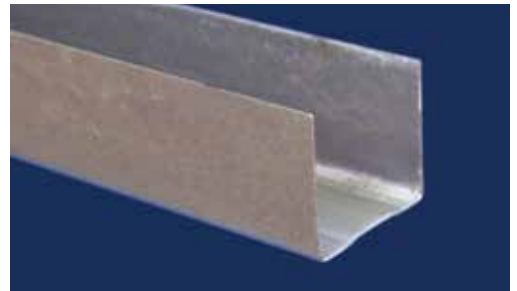
VCD Lining Profiles

Galvanised Steel Description	Length			Qty/ Pack
	2.4	3.0	3.6	
5120 CD Profile 60 x 27 x 0.6mm		*		12
5244 U Perimeter / Track Profile		*		16
6156 30mm Direct Fix Hanger				100
6158 60mm Direct Fix Hanger				100
6157 125mm Direct Fix Hanger				100
6078 Profile Connector				100

5120



5244



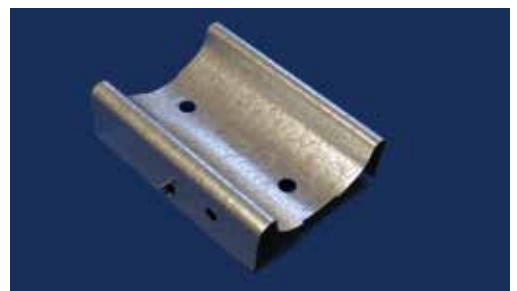
6156



6158



6078





The Protektor door reinforcement system is designed to accommodate a range of door weights.

Our system can accept single or double doors weighing 25kg to over 60kg. The 2mm reinforced door profile has been manufactured with slots running down the web of the profile.

These slots are designed to ease the installation process, making brackets and head details fast and simple to construct, using our (nut and bolt) fixing sets.

Construction data sheets are available upon request from the Protektor technical team.

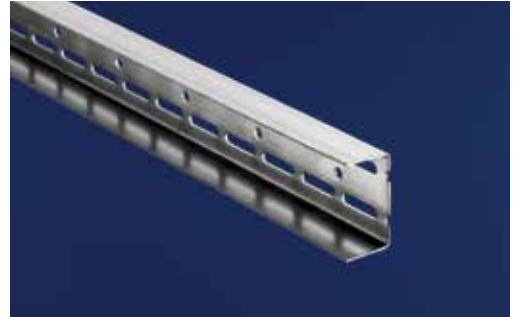
Door Reinforcement Profiles

Galvanised Steel		Length	Qty/
Description		4.0	Pack
5129	Door reinforcement profile 48.8mm x 2mm	•	4
5130	Door reinforcement profile 73.8mm x 2mm	•	4
5131	Door reinforcement profile 98.8mm x 2mm	•	4
5132	Door reinforcement profile 123.8mm x 2mm	•	4

Door Reinforcement Brackets & Accessories

Galvanised Steel		Qty/
Description		Pack
6185	48.8mm Fixing Angles to suit 5129	25
6183	73.8mm Fixing Angles to suit 5130	25
6182	98.8mm Fixing Angles to suit 5131 & 5132	25
6203	Fixing Set (Nut, Washer & Bolt) M8 x 20mm	100

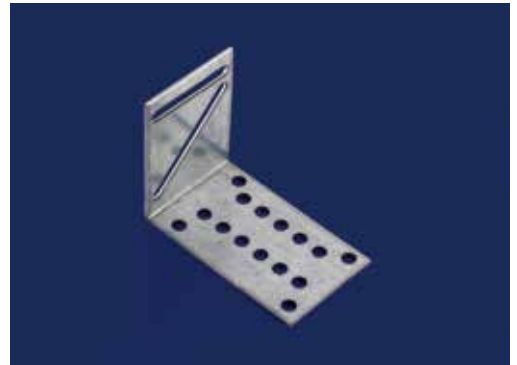
5130



6203



6182





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.

CEILING CONSTRUCTION

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

MF Suspended Ceilings

Galvanised Steel		Size	Length	Qty/ / box
Description		mm	m	
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	25m	1
PP9	Connecting Clip			200
PP10	Angle Profile	25 x 25 x 0.80	3.6	20

Galvanised Steel		Size	Length	Qty/ / box
Description		mm	m	
5161	Angle Profile	25 x 25 x 0.60	3.0	20
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



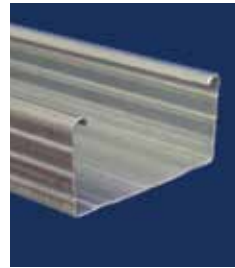


The K400 series ceiling systems are a range of solutions meeting today's demanding requirements. This heavy duty (DIN Standard) system offers the contractor speed of installation and greater additional loadings. Even when the ceiling is arched or there are stringent requirements for soundproofing or 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. The system can be calculated and configured to accept loadings of up to 120kg/sq m. The system can be calculated and configured to resist wind loads in external situations. The system uses nonius hangers that offer millimetre perfect adjustment, enabling the installer to level the ceiling with ease and speed, all locked into place with adjusting pins. In addition, curved ceiling constructions to a required radius using the K400 Bogen system incorporating the arch profile 5072 can be achieved. The K400 System can also be used externally where a soffit or canopy is required to be lined. The system can be powder coated for external and swimming pool environments and external facade.

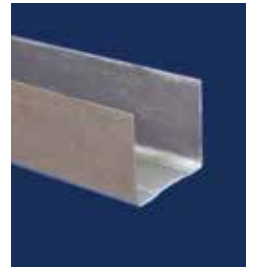
K400

Description	Galvanised Steel	Length			Qty/ Pack
		2.4	3.0	3.6	
5120	CD Profile 60 x 27 x 0.6mm		*		12
5244	U Perimeter/Track Profile		*		16
5168	J Perimeter/Track Profile		*		16
5179	J Perimeter/Track Profile		*		16
5158	E Perimeter/Track Profile		*		8
6020 - 6029	100 - 1000mm adjustable Nonius Hanger				100
6019	1700mm adjustable Nonius Hanger				50
6030	2000, 2500 & 3000mm adjustable Nonius Hanger				25
6018	Nonius Hanger				100
6102	Cross Connector				100
6078	Profile Connector				100
9991	90 Degree Profile Connector (for Bulkheads)				100
6199	Connecting Pins				100
6239	Steel Framing Screw 4.2 mm x 13 mm				1,000

5120



5244



5158



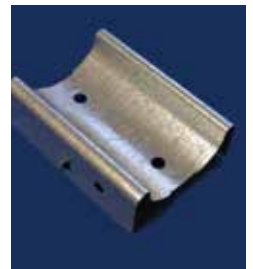
6020 - 6029



6102



6078



6018



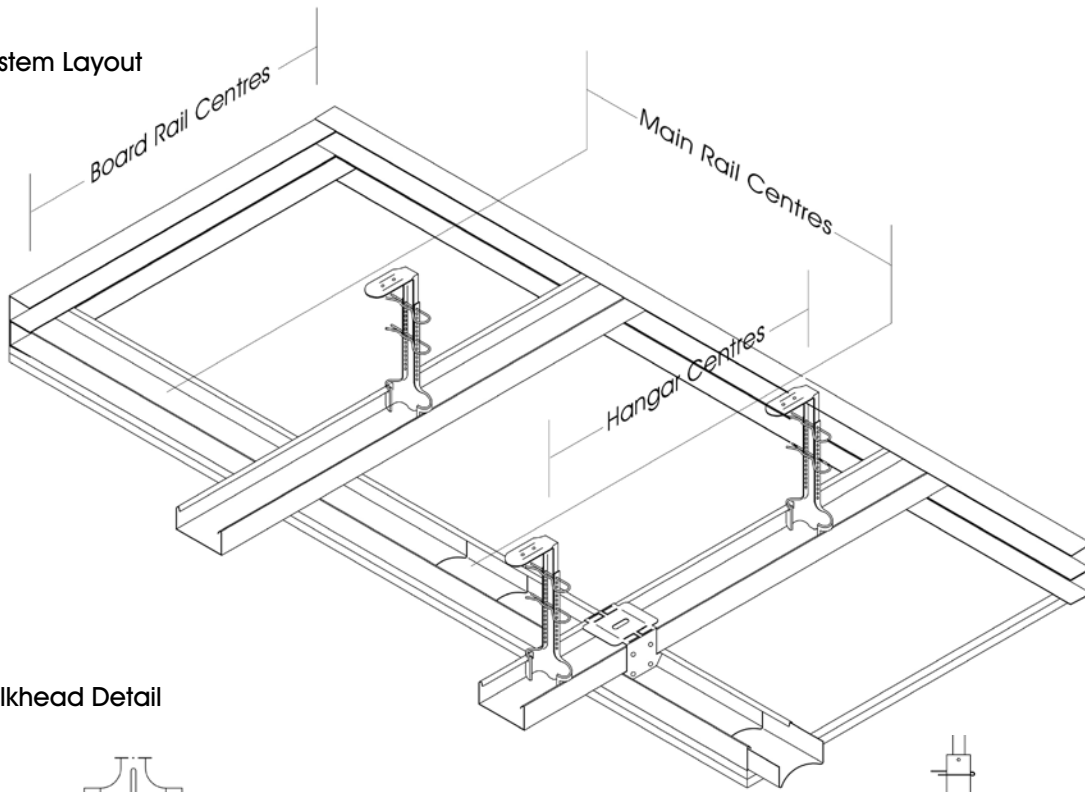
6199



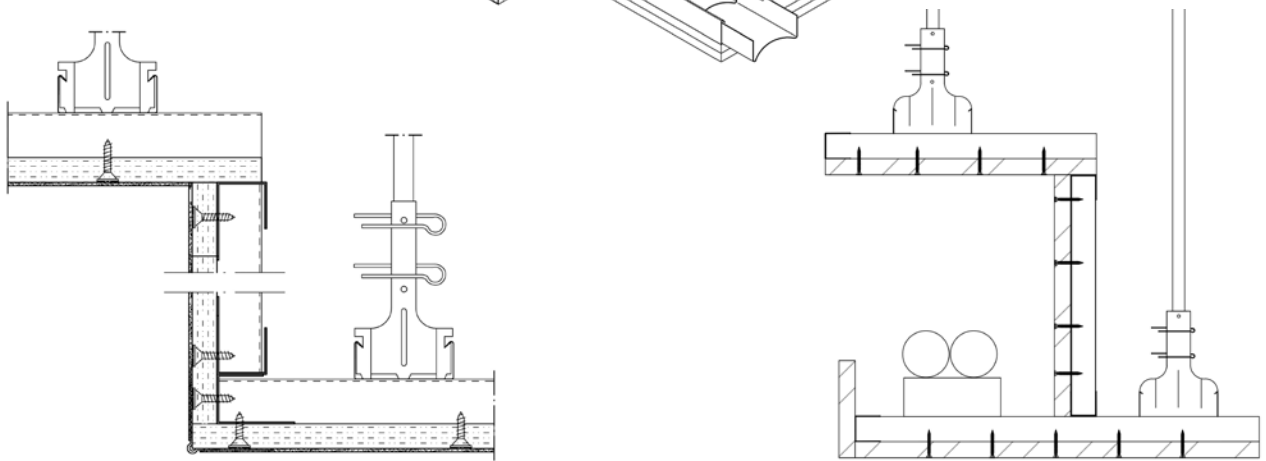
Weight Loading

85 Kg/m ²	Hangers	500mm
	Main Rails	600mm
	Board Rails	450mm
70 Kg/m ²	Hangers	600mm
	Main Rails	600mm
	Board Rails	450mm
48 Kg/m ²	Hangers	650mm
	Main Rails	750mm
	Board Rails	450mm
32 Kg/m ²	Hangers	750mm
	Main Rails	750mm
	Board Rails	450mm

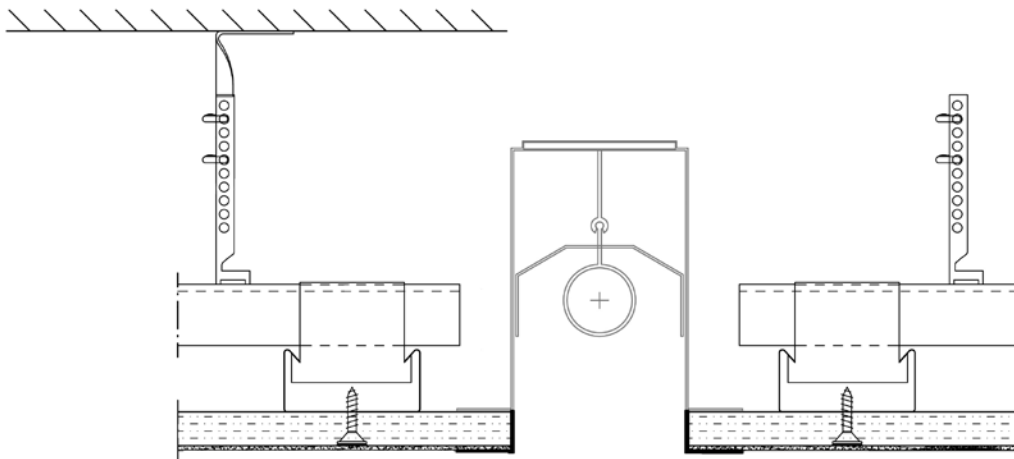
System Layout



Bulkhead Detail

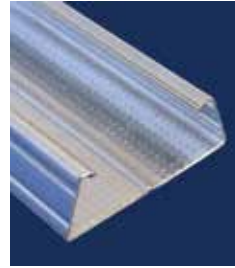


Linear Light Diffuser

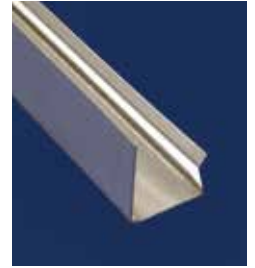




5104



5312



6127



6126



Max. load: 8 kg per clip

6242



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 38 mm) on each side of the brackets to each timber joist at 400 mm 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.

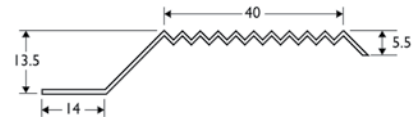
GALVANISED STEEL

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

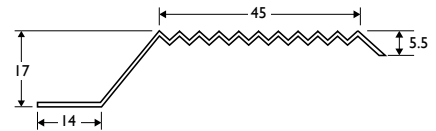
RESILIENT BAR



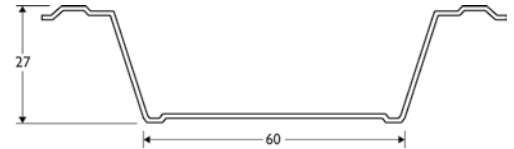
5100



5101



5007



6242



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/m²) to assist in achieving higher levels of acoustic performance.

Care should be taken to ensure that board 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.

GALVANISED STEEL

Ref	Description	Length (mtr)		Qty/Pack
		2.4	3.0	
5100	Standard Resilient Bar 40 mm x 13.5 mm x 0.6 mm	*	*	10
5101	Resilient Bar 45 x 17 x 0.5mm		*	10
5007	DIN Standard Resilient Bar 60 mm x 27 mm x 0.6 mm		*	10

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