



PROTEX commercial radiator covers are robust, high quality steel casings specifically designed for enclosing steel panel radiators and column radiators thereby converting them into a low surface temperature convector.

Primarily intended for protecting people from accidental burns, they can also be used for aesthetic purposes to encase unsightly radiators and associated pipework and valves. The covers are designed to offer minimal resistance to air flow around the radiator resulting in a very small reduction in output of the emitter whilst keeping the surface temperature of the cover to a safe 43°C and below on conventional low pressure heating

systems.

They are suitable for all kinds of public buildings such as hospitals, schools, nurseries and nursing homes and wherever occupants are at risk from accidental burns.

Large radius bull nose corners make the covers particularly suitable where occupants are prone to accidental falls.

Many existing LST radiators are of poor construction and have suffered badly from wear and tear. Protex covers are ideal for restoring these heaters as they are made to measure and bracketed independently of the heat emitter.

Design Features

Robust Construction

Easily Removable for Cleaning

Large Radius Bullnose Corners

Hinged Lockable Access Panels

All Access Panels Keyed Alike

Made to Measure

Oven Cured Polyester Powder Coated



Made to measure

Floor level grillage draws in the coldest air to maximise room comfort conditions and radiator output

Grille Options

Linear



Eco



Anti-ligature



Protex Linear radiator covers incorporate extremely robust linear bar grilles into a robust steel cabinet. A rolled top front edge and large radius bull nose corners add safety, strength and attractive appearance. As a further safety measure, the back of the grille incorporates a finger guard. The covers are made to measure to any height and length, and are available in four standard depths (130, 155, 180 and 205mm). Other larger depths are also available when required.

Protex Anti-ligature radiator covers utilise the proven robust design of the Protex Linear cover. A fine mesh screen with an opening size of less than three

millimetres is electrically welded to the back of the bar grille to create the strongest of anti-ligature grillage. Setting the mesh to the back of the tubing, keeps it out of the normal line of sight and makes it inconspicuous and less institutionalised.

Protex Eco radiator covers are the economy version of the range and incorporate a perforated grille rather than a linear bar grille. In all other respects, these covers are of exactly the same specification as the Linear covers, with strong construction and safety at the forefront of design. There are an infinite number of sizes available as the covers are made to measure to any height, depth and length in increments of 10mm.



Specification

General

Protex radiator covers are of an all welded steel construction with side and front panels manufactured from 1.5mm mild steel sheet. The perforated grilles are manufactured from 1.2mm mild steel sheet and the linear grilles are assembled from 10 x 20 x 1.5mm rolled hollow section tubing with a 1.5mm wire finger guard fitted behind the tubing. The leading edges of the covers have a 25mm radius resulting in a very strong section with rolled top front and large safe radius bull nose corners.

Sizes

All Protex radiator covers are individually made to measure to suit each radiator situation. Factory made skirting / pipe entry cutouts are provided as standard prior to powder coating. A choice of three bracketing types ensures optimum ease of removal of the covers for cleaning and maintenance purposes. Access to valves and/or air vents can be provided for when specified. Units with open end panels can be made to butt up to side walls and fit in alcoves. All features are easily specified using our "Sizing Forms" available for download at www.bsmw.co.uk

Output

Both Protex Eco and Linear radiator covers employ a grillage manufactured in house with a free area of approximately 60%, which results in a very low reduction in output of the emitter. The front grille is mounted at floor level for maximum stack effect through the casing and to ensure good room air circulation. The radiant component of the heat emitter output is given off as convective heat when it hits the casing, and the casing itself encourages convection. Random tests have shown a very low reduction in output. However, each radiator cover installation is unique in terms of situation, size, output and piping configuration. We therefore advise a reduction in output of approximately 5% when Eco and Linear grille types are fitted. Anti-

ligature covers are designed and sized with larger grille area's to partially compensate for the additional fine mesh barrier attached to the bar grille. However, we advise a heat output reduction of approximately 10% can be expected for this type of cover due to the increased resistance through the grille.

Access Panels

Access panels are provided during construction when it is desirable to adjust a valve or to facilitate air venting without having to remove the radiator cover. These can be sited within the front panel section or a side panel. All access panels are fitted with a standard quarter turn key operated lock which prevents unauthorised access and tampering with control settings.

Thermostatic Valves

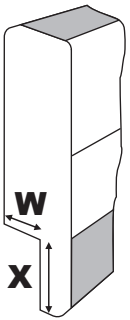
Thermostatic valves piped up to radiator "bottom opposite end" connections will usually give satisfactory control when a cover is fitted as they will continue to detect the incoming room air temperature. However, top sited valves are likely to be adversely affected by convection currents within the casing. It is advisable in these circumstances to replace the valve head with a remote sensing unit with the sensor mounted at the inlet grille within the cover, or taken outside the cover completely. Several makes of remote sensing / remote adjustment thermostatic heads are readily available which allow control of the heater without the need for access panels.

Finishes

All Protex radiator covers are finished in an electrostatically applied and oven cured polyester powder coating to provide an attractive, durable finish. The standard colour is white satin gloss RAL 9016. Other RAL colours can be applied as a non-standard when specified, assuming the colour is readily available.

Cutout Options

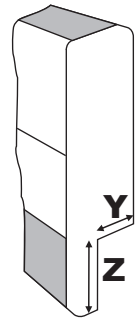
Cutouts for skirting boards and pipe entries are provided as standard during manufacture and are specified using the simple convention of W,X,Y & Z shown in the diagrams. This eliminates on site cuts which damage the paint finish and ensures a simple and economical site installation.



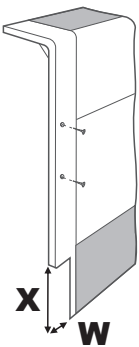
Cutout (LHS)

Standard Side Panels

Cutouts for skirting boards and pipe entries are provided as standard and are specified using the simple convention of W,X,Y & Z. Our "Sizing Guide" shows how to specify cutouts in detail.



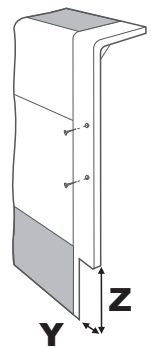
Cutout (RHS)



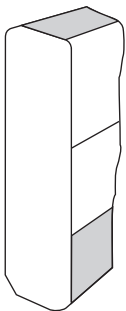
Cutout (LHS)

Open Ends

Open end panels are specified where a radiator cover butts up to a side wall. Again, the cutouts in the front face follow the standard convention of W, X, Y & Z.



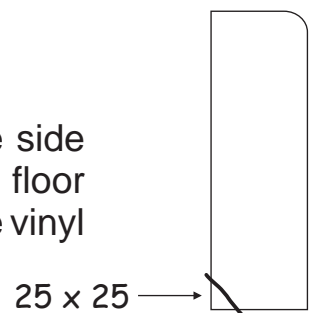
Cutout (RHS)



Diagonal cutout

Vinyl Floors

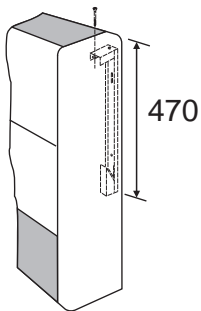
For vinyl sealed floors, a diagonal cut on the side panel allows the cover to sit down to the floor without interfering with the radius corner of the vinyl coving.



Example

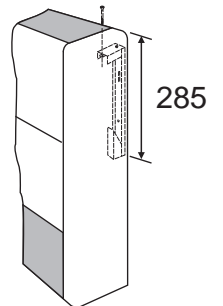
Fixing

Three bracketing arrangements are available to provide ease of installation and quick access for cleaning and maintenance. All screw heads are supplied powder coated to match the covers.

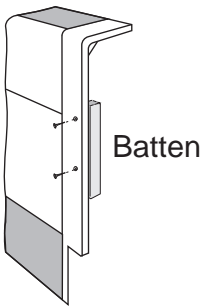


TL (long bracket)

TL and **TS** brackets are the preferred method of fixing. They give a tight, secure fixing. A powder coated pozidrive machine screw in the top of each side panel secures and releases the cover.

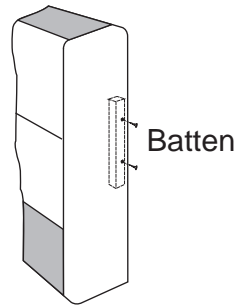


TS (short bracket)



SB in open end

SB fixings are employed primarily on open ended side panels but also on standard end panels when the top fixing screws are not accessible. Covers over 2400mm long are made in two sections and use side fixing battens both on the side panels and for the centre fixing to join the two sections together.



SB in standard end

Access Panels



Protex radiator covers are designed to allow easy removal for cleaning and maintenance purposes. However, to enable frequent access to valves and air vents, we provide the option of access panels pressed directly into the face or side of the cover. The access panels are hinged and recessed into the panelling to

eliminate sharp edges and to maintain the clean lines of the design. A key operated quarter turn lock is provided as standard to prevent unauthorised access. All locks are keyed alike. Multiple keys are provided with each order and spare keys are always available.

Radiator Cover Sizes

PROTEX RADIATOR COVERS - SIZING FORM

Project Title: _____ Date: _____ Quote No.: _____ Job No.: _____
Customer Name: _____

Key to Symbols
H - Cover Height
D - Cover Depth
L - Cover Length

Bracket Types
TL & TS
SB

Skirting Cutouts
W, X, Y, Z

Access Positions
Aw, Ax, Ay, Az

The form contains three identical sections, each with a diagram of a radiator cover and a table for specifying dimensions and options.

Our Radiator Cover Sizing Guide complete with Sizing Forms is an easy to use, step by step Instruction Guide on how to specify a Protex Radiator Cover. Examples on how to complete the form are given throughout.

Small quantities can be processed very quickly this way, and bespoke designs can be delivered to site within a matter of days.

We also offer a site measurement service when this is required.

Example

No.	1	Ref.	Classroom 2 - side wall	Style	LIN
				H	800
				D	130
				L	1250
				TL	✓
				TS	—
				SB	—
				W	15
				X	150
				Y	60
				Z	200
	Aw	140			
	Ax	TOP			
	Ay	—			
	Az	—			

← grille style

← dimensions

← bracket type

← skirting cutouts

← access position



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