Manthorpe Building Products

Product Information Sheet

Twin Plate Radiator Pipe Guide & Seal

Code: **GRS-DUO**

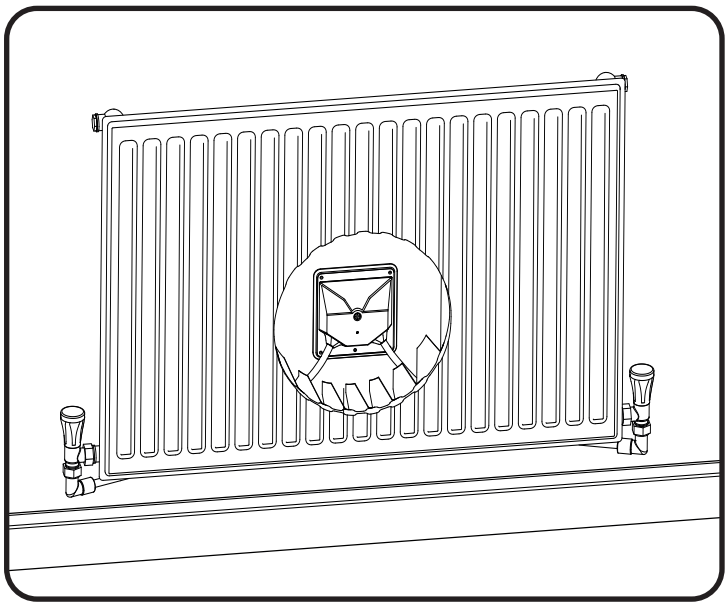
Description

The **GRS-DUO** is designed to prevent air leakage at pipework penetrations behind a radiator that is plumbed with 10mm flexible plastic barrier pipework commonly used for central heating systems in modern buildings. Along with limiting air leakage through the penetration and producing an attractive finish to the detail, the product also acts as a guide for the pipework as it exits from behind the wall and transitions below the radiator to the valve points at the outer corners, eliminating the risk of kinks and chafing along the exposed run of pipe.

The patent pending twin plate design allows for a robust mounting point for the pipework at the first fix plumbing phase, with the subsequent penetration through the plasterboard behind the radiator then covered and sealed against air leakage during the course of the second fix.

The versatility of the system allows it to be installed in a wide range of details and with both blockwork and stud wall constructions. The unique single central fixing of the sealing cover plate can also be secured directly to the rear mount plate rather than into the surrounding plasterboard, which removes the need for plasterboard fixings near to the cut edge of the plasterboard pipework opening. The mount plate offers a series of fixing locations to allow the system to be fitted securely with a variety of plasterboard and radiator offsets.

Specifications	
Packing Details	20 per box (Cover & Mount pairings)
Box Weight	1.729 kg
Part Weight ***Mount Plate*** ***Cover Plate***	 0.034 kg 0.042 kg
Materials ***Mount Plate*** ***Cover Plate*** ***Cover Seal***	 Polypropylene Polypropylene TPE
Maunfacturing Process	Injection Moulded



References
Building Regulations Approved Document L: Conservation of fuel and power

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ENVIRONMENTAL EPD DECLARATION

Environmental Product Declaration Available:

EPD HUB Number

HUB-1078

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DRAWN	ISSUE DRAWN
B.H. 18/05/21	B.H. 14/02/25

The company maintains a policy of continuous development of its product range and reserves the right to amend the specification without notice.

DRG No

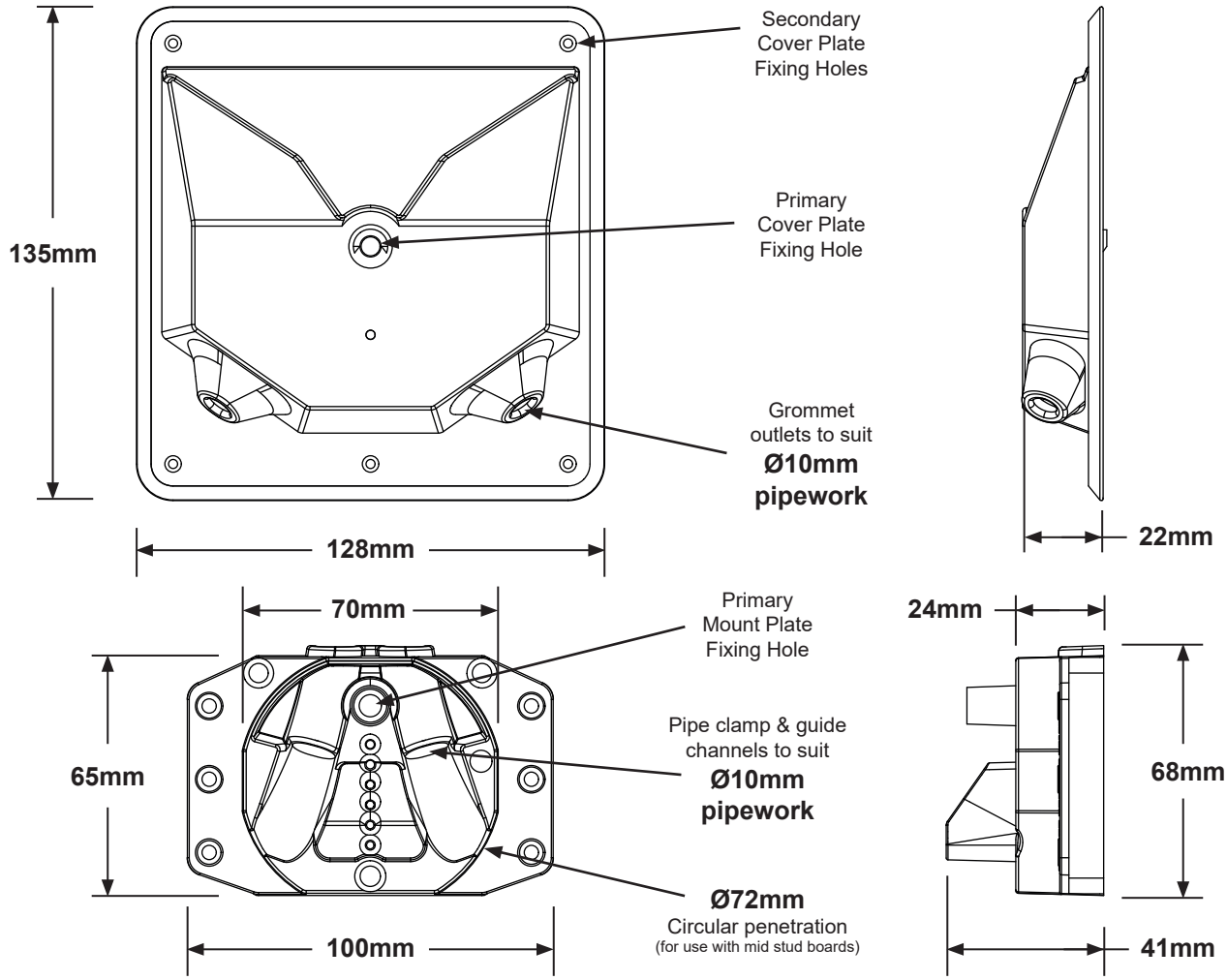
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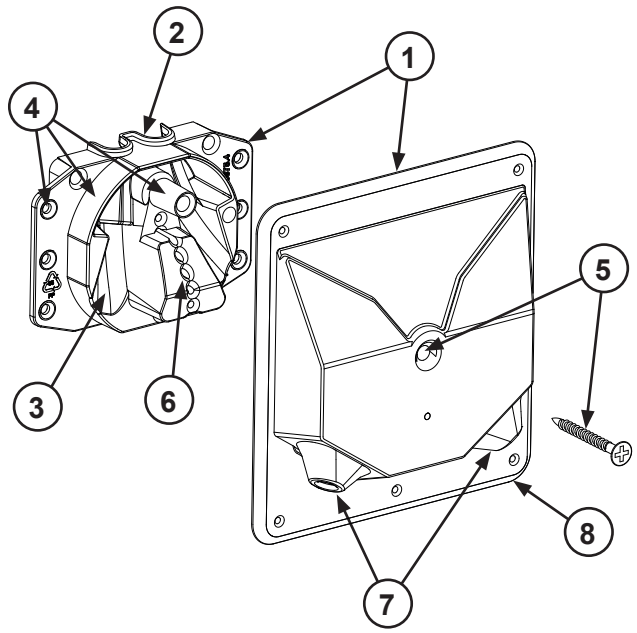
Issue

03

Twin Plate Radiator Pipe Guide & Seal

Code: **GRS-DUO**





Product Features	
1	Twin plate system to maximise the benefits for first and second fix installations
2	First fix mount plate anchors the pipework at the correct point of exit from the wall
3	Guide channels help to curve the pipework towards the valves to prevent kinking
4	Mount plate can work with various wall constructions such as blockwork or stud walls
5	Second fix cover plate attached with a single screw, no plasterboard fixings required
6	Multiple pilot hole locations between the two plates allows for various installation offsets
7	Flexible grommets seal around the pipework while allowing for directional adjustability
8	Flexible sealing bead - Seals around the unit to prevent air leakage.

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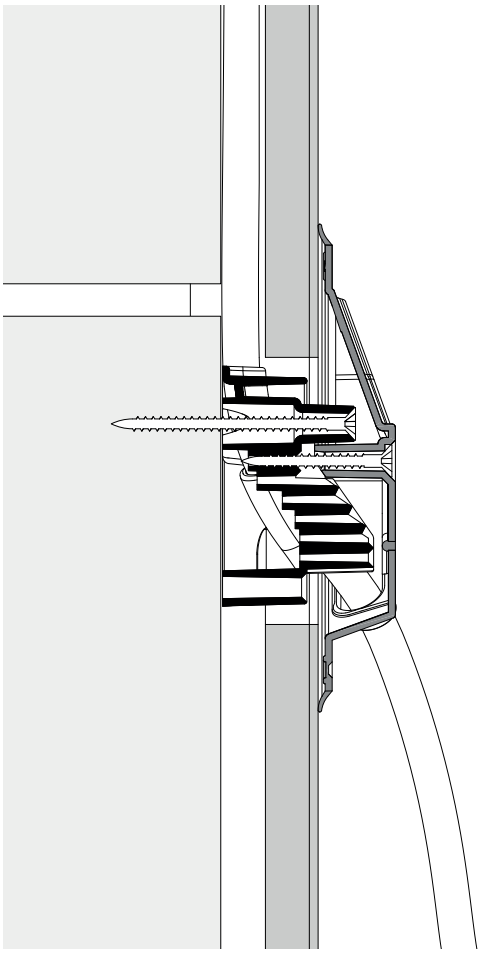
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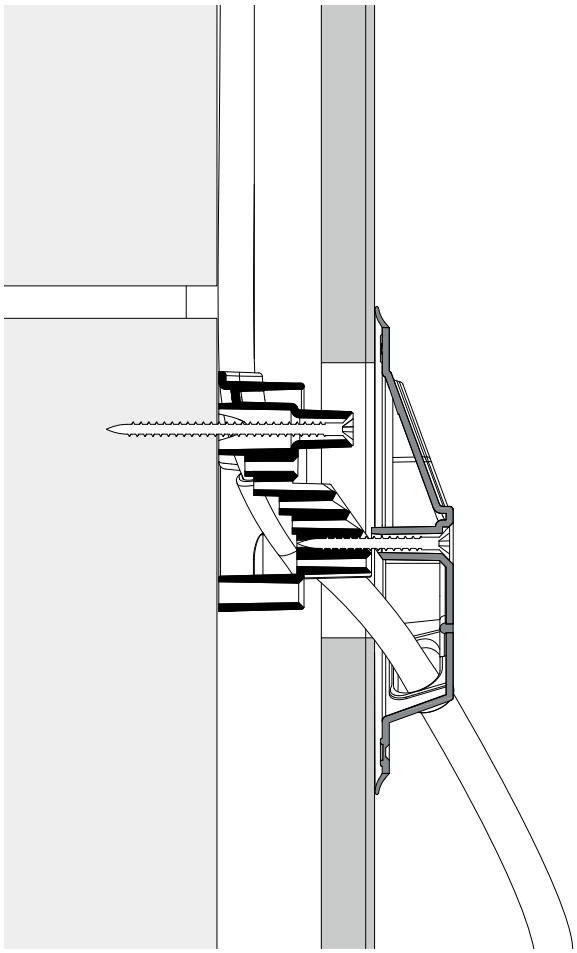
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The versatility of the twin plate system allows it to be installed with a wide range of plasterboard offsets, the mount plate offers a series of fixing locations to allow the system to be fitted securely with increasing offset distances whilst maintaining the minimum bend radius of the pipe run.



Minimum Plasterboard Void Offset

12mm



Larger Plasterboard Void Offsets

>12mm *(Illustrative 30mm)*

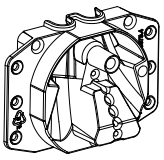
Components within the GRS-DUO system:

Note: Screw fixings for both the mount and cover plate not included.

Mount Plate

Installation Point:
1st Fix

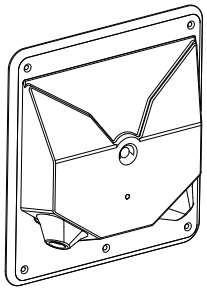
Box Qty: **20**



Cover Plate

Installation Point:
2nd Fix

Box Qty: **20**



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Issue

03

The **GRS-DUO** is designed to work with 10mm flexible plastic barrier pipework commonly used for central heating systems in modern buildings.

The dual plate design allows for the location and alignment of the initial pipework to be set during the first fix plumbing phase, with the subsequent penetration through the plasterboard behind the radiator then covered and sealed against air leakage during the course of the second fix works.

The versatility of the system allows it to be installed in a wide range of details and with both blockwork and stud wall constructions. The unique single central fixing removes the need for plasterboard fixings and allows the system to be fitted securely with a variety of plasterboard and radiator offsets.

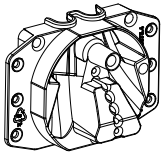
Components

Components within the GRS-DUO system

Mount Plate

Installation Point:
1st Fix

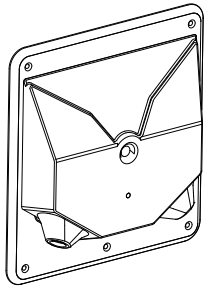
Box Qty: **20**



Cover Plate

Installation Point:
2nd Fix

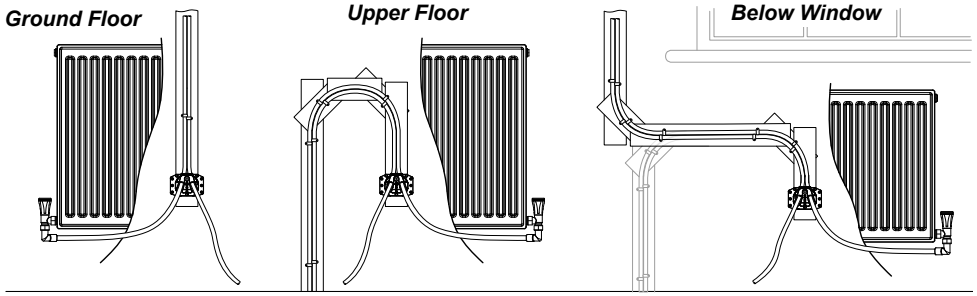
Box Qty: **20**



Screw fixings for both the mount and cover plate not included.

Pipe Routing Options

The **GRS-DUO** has the versatility to be fitted in a wide range of details and will work with pipework coming from above on ground floors, below on upper floors or from the side under window details.



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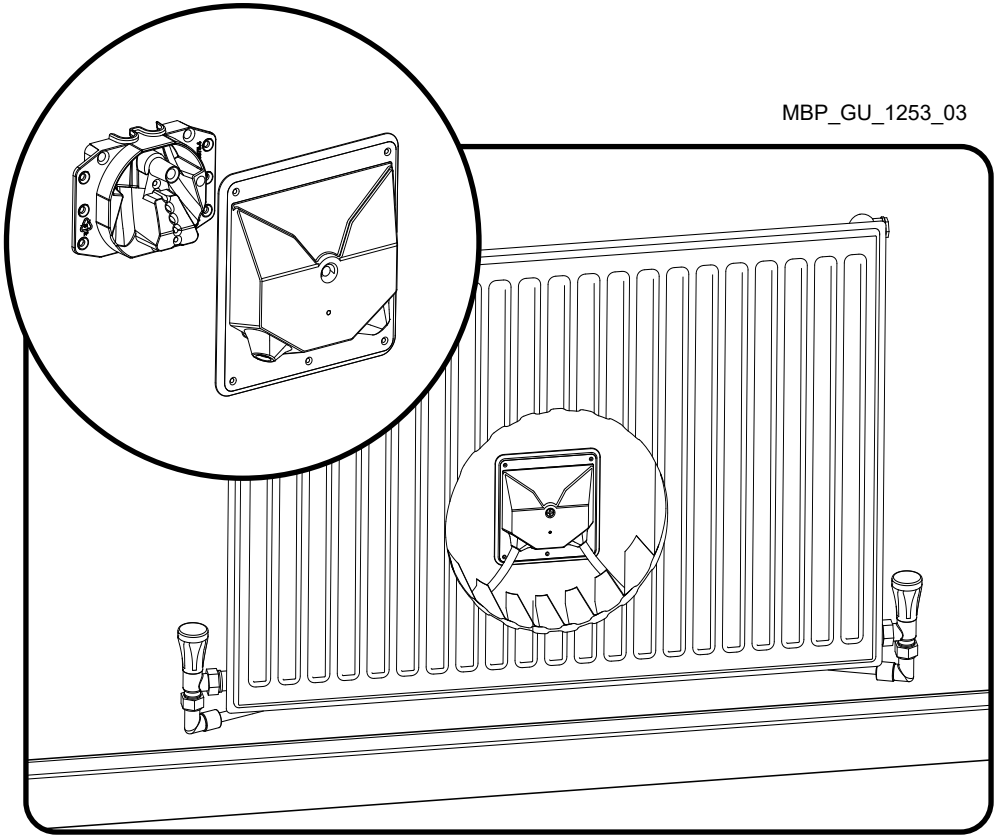
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GRS-DUO

Radiator Pipe Guide & Seal

Fitting Instructions

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Screw fixings not included.

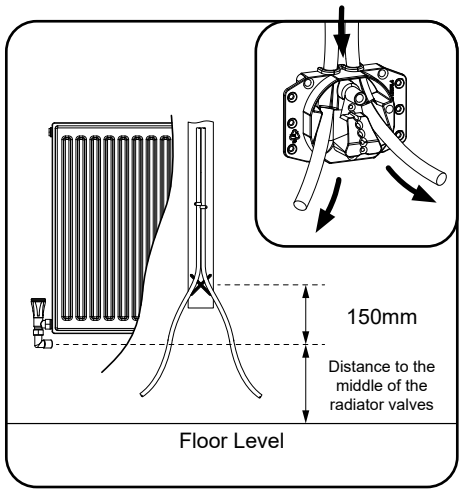
GRS-DUO Radiator Pipe Guide & Seal Installation:

Preparation

1. Run the pipework towards the required location, using detection tape behind the pipes. Mark the location for the mount plate, centrally about the intended position for the radiator and 150mm above the height of the radiator valve connection points.

2. Thread the pipes through the mount plate so that they sit in the guide channels. Ensure that enough excess pipe is left exposed on each side to reach both radiator valves.

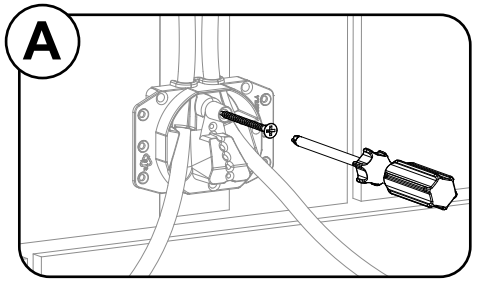
Note. Guidance on pipe routing for both ground floor and upper floor details can be found on the reverse.



Installation

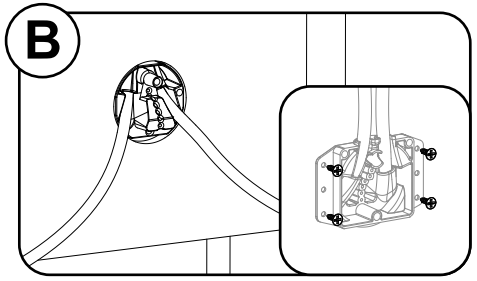
3. A – When fixing to blockwork:

Use the central fixing boss; secure with a 75mm masonry screw or plug and screw into position. Alternatively, the three secondary mounting holes can also be used to secure the mount plate.



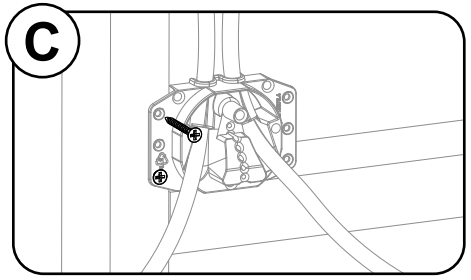
3. B – When fixing to a pattress board:

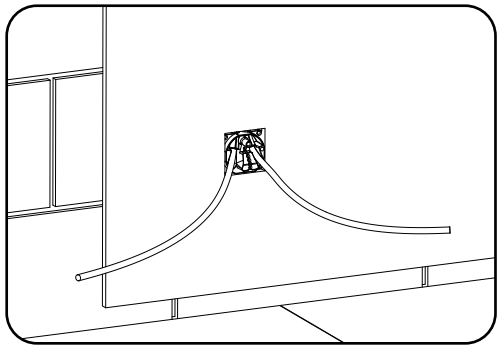
Cut a 73mm dia. penetration through the board using a hole saw. Push the mount plate through from behind and secure with appropriate length wood screws through the fixing holes on the outer flanges.



3. C – When fixing to adjacent studwork:

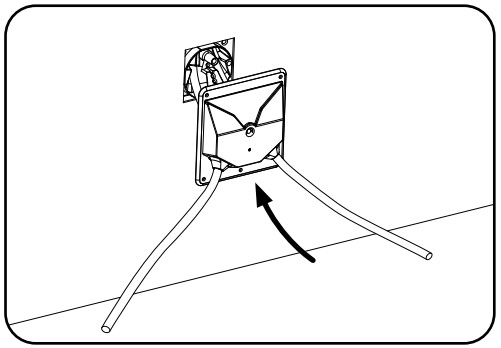
If the location sits next to a wall stud, at least two of the fixing holes on either outer flange can be used to secure the mount plate to the face of the stud.



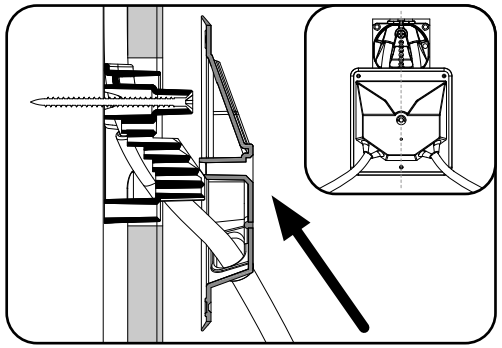


4. When dry lining, mark out and cut a 70 x 70mm square, or 73mm dia. hole in the plasterboard. Plaster the wall as normal, being careful not to plaster over the hole.

The wall can then be painted at this stage.

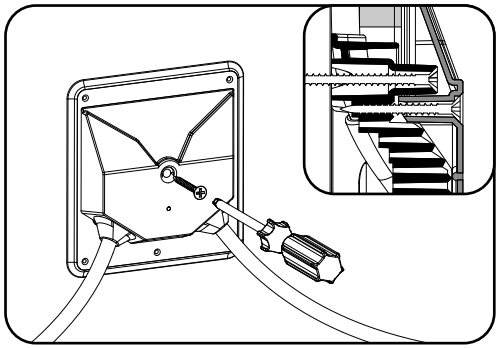


5. Thread the two pipe lengths through the correct grommets on the cover plate, ensuring that grommets are angling downward and the rear perimeter seal is facing backwards. Slide the cover plate up the pipework towards the mount plate and the wall.



6. Ensure that the cover plate is aligned centrally with the mount plate and then slide it up the pipes until it sits flush against the plastered wall.

In order to make an airtight seal, push the cover plate firmly upward prior to fixing, to fully compress the seal against the wall.



7. Once sat squarely against the wall, a single fixing screw (4mm x *minimum* 40mm long) should be pushed through the central screw boss on the cover plate and screwed into one of the appropriate pilot holes in the mount plate to secure it tightly to the wall.

The five secondary fixing points can also be used for additional alignment or anchoring to uneven walls, or act as an alternative to the central fixing if the mount plate has not been used.

8. Finally, following the radiator manufacturers installation guidance, fix the radiator to the wall and securely connect both pipes to the radiator valves.