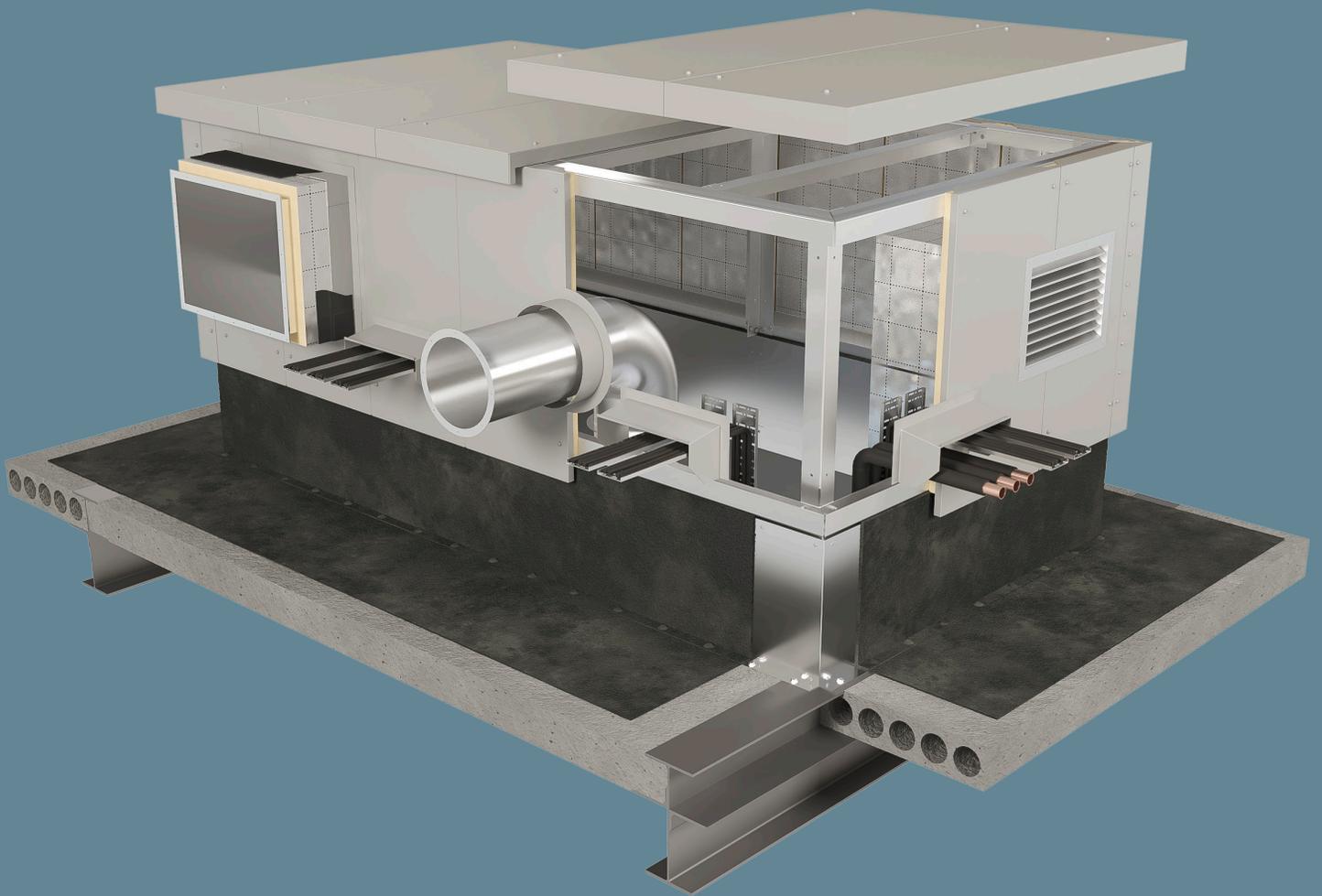


# ROOFBOX™

standard and modular roof cabinets



ROOFBOX™ is a proprietary riser weathering system, designed specifically to address the inherent problems of waterproofing service penetrations at roof level.



**Project:** St Pauls Girls School, Hammersmith  
**Architect:** John McAslan + Partners  
**Building Contractor:** 8build  
**Services Consultant:** Atelier 10  
**Product:** Roofbox M Bespoke

# The benefits of the Roofbox system

## Absolutely no leaks

Roofbox brings you peace of mind when it comes to the roof. The Roofbox system is a purpose engineered and warranted solution to the common problem of weathering penetrations at the roof. Roofbox allows the problem of weathering to be addressed before the services are installed.

## Simple to specify

The Roofbox S range of standard roof cabinets provides specifiers with proprietary 'off the shelf' products. CAD details and specifications can be downloaded directly from our website and this range comes with industry friendly lead times.

## Easy to adapt

Roofbox cabinets can be tailored to your site specific requirements. They can be adapted to accommodate parapets, abutments, lift overruns and most other obstacles. Contact our support team to get a solution designed specifically for your problem.

## Safety first

Riser openings can be made safe and weathered at the same time using the Roofbox system. This allows internal works to be unaffected by inclement weather.

## Future proof

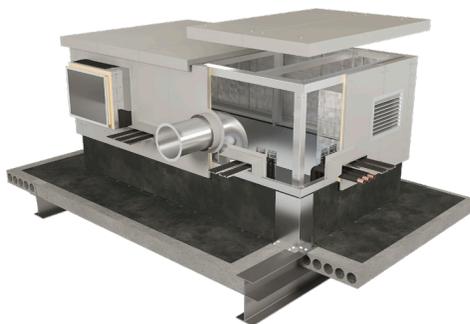
The size and number of service penetrations is not always quantified early in the design process. The Roofbox system provides for service penetrations at a later date, even if the building use changes over time.

## Professional result every time

There are no rules or guidelines for building the proverbial 'dog kennel'. The Roofbox system provides a consistent, repeatable and aesthetically pleasing result which can be supplied powder coated in any RAL colour.

## Sustainable solution

By using 3D modelling and the latest design technology we can design and manufacture the Roofbox system off-site bringing savings in time, energy, wastage and, transportation. The insulated panel design also contributes to the thermal performance of the building helping to meet the minimum U values required by the building regulations.



Roofbox M



Roofbox S



Roofbox K

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# Roofbox product selector by size of service penetration

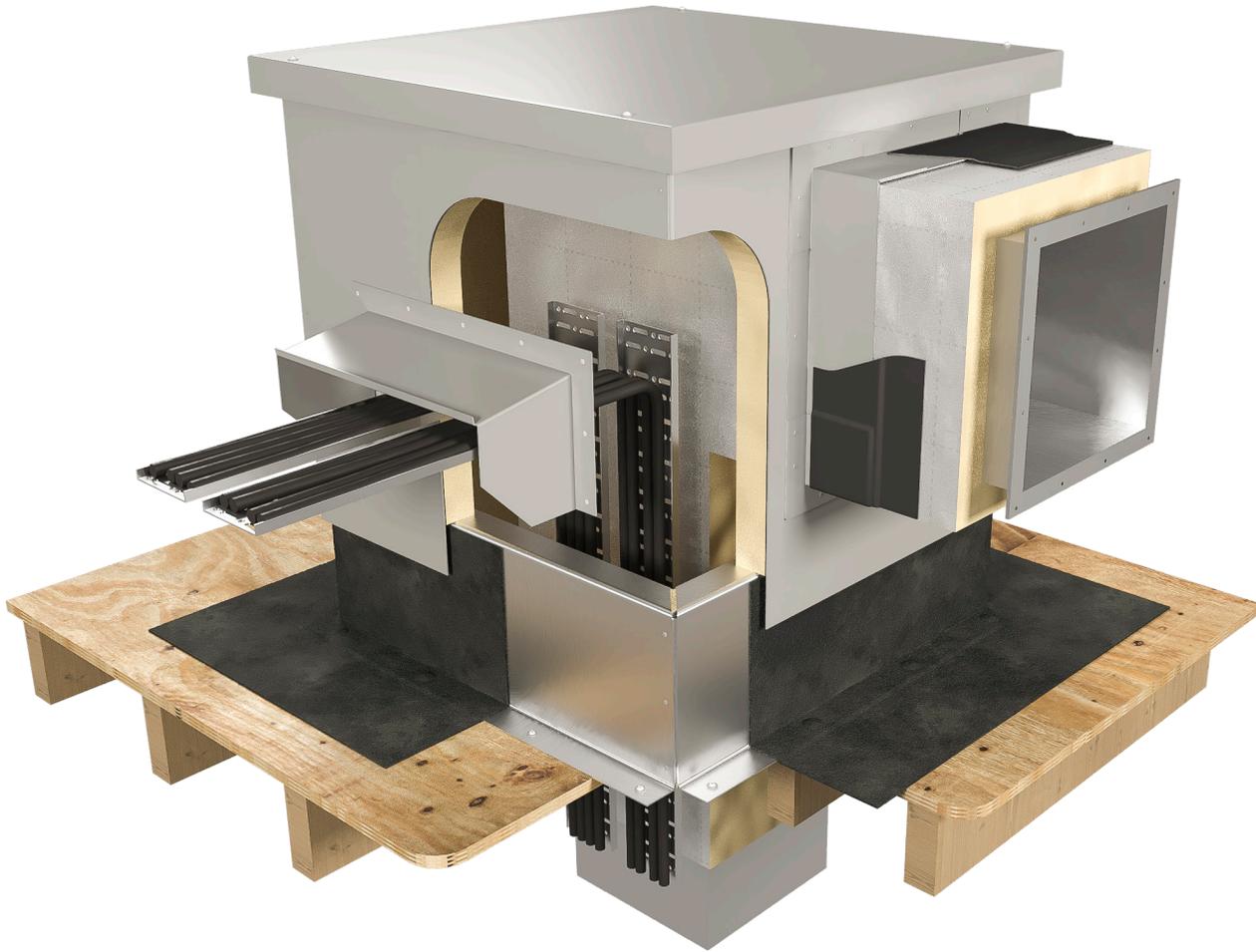
		Roof opening size (mm)	Max services width (mm)		Max services height (mm)		Pg. no
							
S1		300 x 300	side 1/side 2	<b>300/300</b>	S1	<b>150</b>	10
S2		400 x 700	side 1/side 2	<b>400/700</b>	S2	<b>150</b>	11
S3		600 x 900	side 1/side 2	<b>600/900</b>	S3	<b>150</b>	12
S4		600 x 600	side 1/side 2	<b>600/600</b>	S4	<b>475</b>	13
S5		750 x 750	side 1/side 2	<b>750/750</b>	S5	<b>625</b>	14
S6		750 x 1500	side 1/side 2	<b>750/1500</b>	S6	<b>625</b>	15
M1		1000 x 1000	side 1/side 2	<b>875/875</b>	1000 high	<b>730</b>	24
					1500 high	<b>1230</b>	
M2		1000 x 1500	side 1/side 2	<b>875/1375</b>	1000 high	<b>730</b>	25
					1500 high	<b>1230</b>	
M3		1000 x 2000	side 1/side 2	<b>875/1875</b>	1000 high	<b>730</b>	26
					1500 high	<b>1230</b>	
M4		1500 x 1500	side 1/side 2	<b>1375/1375</b>	1000 high	<b>730</b>	27
					1500 high	<b>1230</b>	
M5		1500 x 3000	side 1/side 2	<b>1375/2no at 1300</b>	1000 high	<b>730</b>	28
					1500 high	<b>1230</b>	
M6		1500 x 4500	side 1/side 2	<b>1375/3no at 1300</b>	1000 high	<b>730</b>	29
					1500 high	<b>1230</b>	



# ROOFBOX S

## standard roof cabinets

Roofbox S



The Roofbox S range of standard cabinets are supplied directly to site, fully assembled and ready to fit. They can be ordered with various base options to allow integration with most roof constructions. The S1, S2 & S3 are supplied with a weathering hood. The S4, S5 and S6 can be supplied with a choice of weathering hoods, universal flashing kit for square ducts and custom flashings for round ducts. Bespoke versions of the S range are also available – see page 18 for further details.



S1



S2



S3



S4



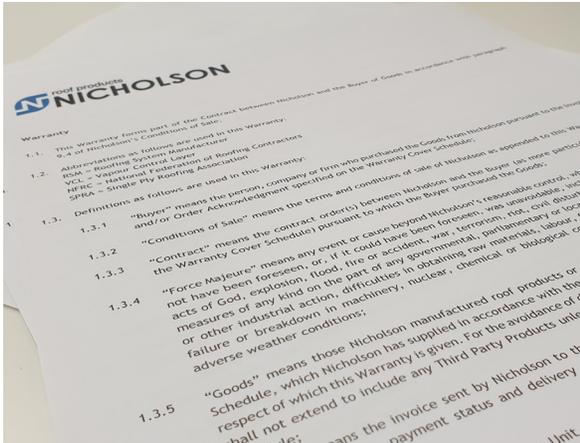
S5



S6

## Roofbox S key features and benefits

### Roofbox Product Warranty for peace of mind



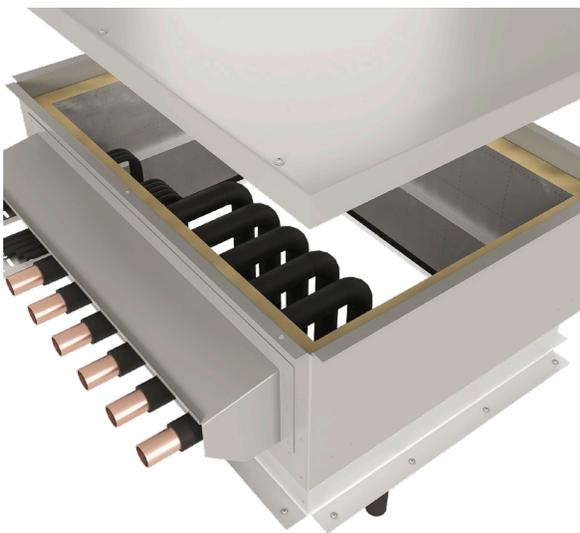
The comprehensive 10 year product warranty offered with the Roofbox S series provides the specifier with complete assurance as to the enduring integrity of this weathering system.

### Weathering hood for easy weathering of cable trays



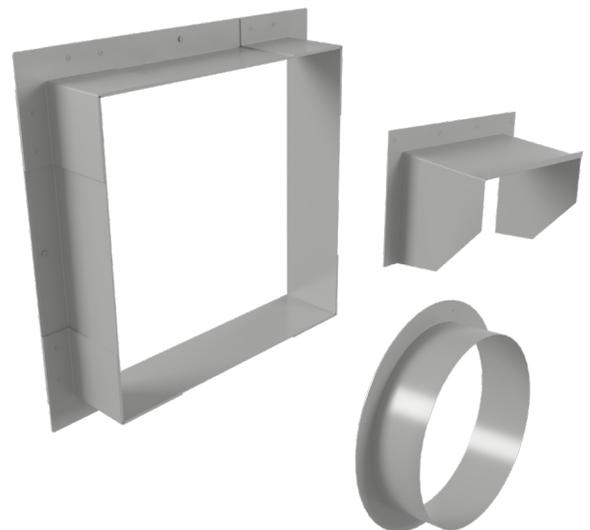
The S range can be fitted with a weathering hood for weathering multiple service penetrations as they pass through the side of the cabinet.

### Removable lid ensures easy access for the installation of services



The Roofbox S cabinets have a removable lid with fasteners to provide easy access for M&E contractors. This facilitates the retrospective installation of services such as cables, pipes and ducts through the Roofbox.

### Engineered flashings to provide an effective and durable seal



Use the universal flashing kit for square and rectangular ducts. Round duct flashing kits are available as split or whole.

## Roofbox S key features and benefits

### Powder coated aluminium

Providing a durable finish



The Roofbox S cabinets are supplied pre-finished with an architectural grade polyester powder coated finish in RAL 7047. Other RAL colours are available on request.

### Insulated aluminium construction

provides enhanced thermal performance and helps to prevent condensation



Roofbox S cabinets are manufactured from 2.0mm aluminium insulated internally with 50mm PIR insulation giving 0.41 U value. Further insulation options can be supplied to provide enhanced U value and fire ratings where desired.

### Pre-assembled

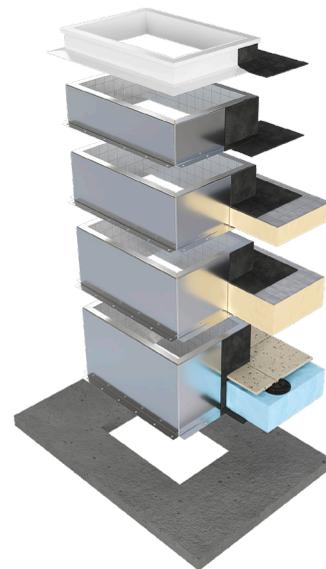
for fast installation



The Roofbox S cabinets are supplied pre-assembled and are ready to install on arrival at site. Simply remove the cabinet and weather the base to the roof. Replace the cabinet and lid and installation is complete and ready for the M&E contractors.

### Multiple base options

giving compatibility with all types of roof construction



Select a base from a range of different heights to enable the Roofbox S range to be used in varying types of roof construction from a cold roof to an inverted or green roof.

## Roofbox S1

The Roofbox S1 is a standard, insulated powder coated, aluminium roof cabinet for a 300mm x 300mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services and a pre-fitted 300mm weathering hood to protect the services where they enter the cabinet. An appropriate kerb height can be selected to enable integration into the roof build up.

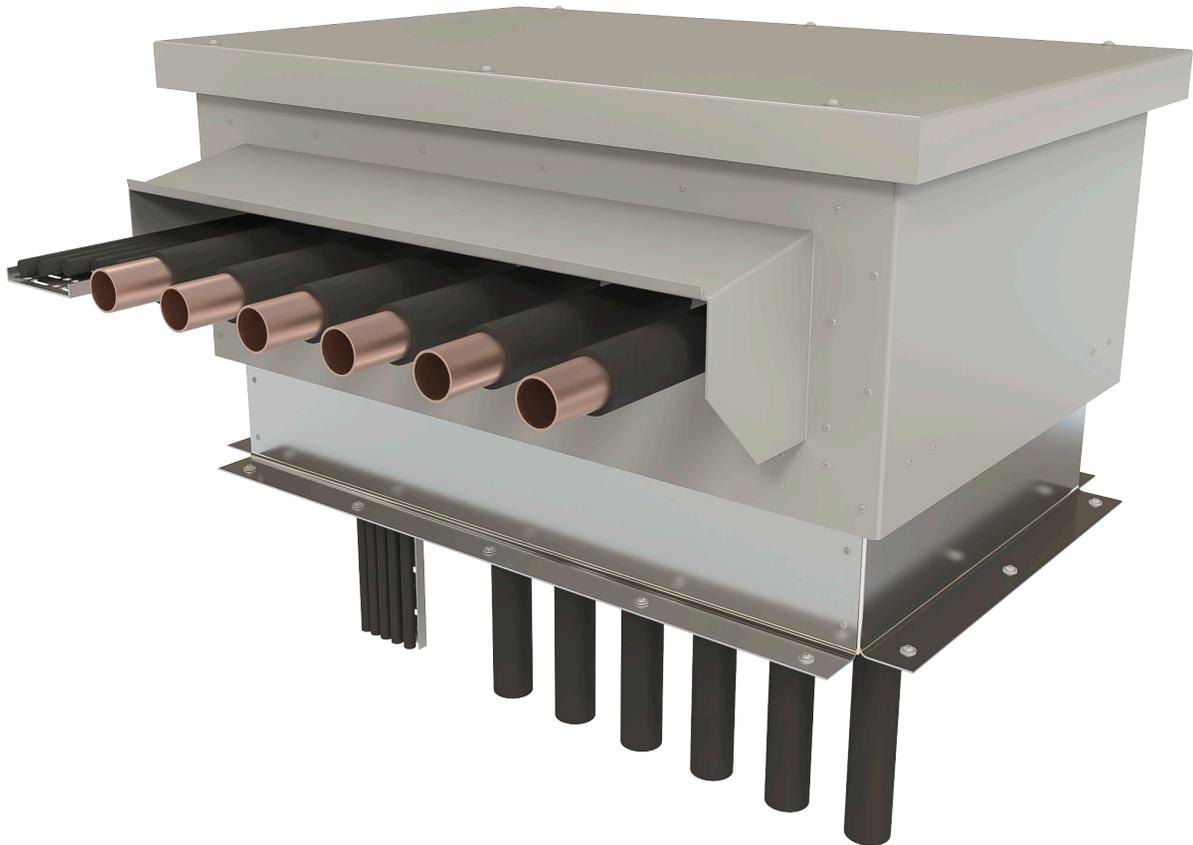


### Roofbox S1 dimensions

Kerb	Roof opening size	300 x 300
	Available height in UPVC	150
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	277
	OA cabinet width	454
	OA cabinet length	454
Lid	OA lid width	520
	OA lid length	520
Service penetrations	Max services height	150
	Max services width - side 1	300
	Max services width - side 2	300
Ventilation louvres	Max louvre size - side 1	190 x 300
	Ventilation free open area	0.0285m <sup>2</sup>
	Max louvre size - side 2	190 x 300
	Ventilation free open area	0.0285m <sup>2</sup>
<b>To specify</b>	Nicholson Roofbox S1; insulated PPC aluminium roof cabinet to suit 300mm x 300mm roof opening. OA size 520mm x 520mm x 277mm high, supplied with H30 300mm weathering hood. Order code S1	
	<b>Kerb options:</b>	
	Nicholson Roofbox UPVC kerb upstand 150mm high. Order code S1-PVC	
	Nicholson Roofbox S1; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S1-AB200, S1-AB375, S1-AB450, S1-AB600	
	Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 <a href="http://www.nicholsonsts.com">www.nicholsonsts.com</a>	

## Roofbox S2

The Roofbox S2 is a standard, insulated, powder coated, aluminium roof cabinet for a 400mm x 700mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services and a pre-fitted 700mm weathering hood to protect the services where they enter the cabinet. An appropriate kerb height can be selected to enable integration into the roof build up.



### Roofbox S2 dimensions

Kerb	Roof opening size	400 x 700
	Available height in UPVC	150
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	277
	OA cabinet width	554
	OA cabinet length	854
Lid	OA lid width	620
	OA lid length	920
Service penetrations	Max services height	150
	Max services width - side 1	400
	Max services width - side 2	700
Ventilation louvres	Max louvre size - side 1	190 x 400
	Ventilation free open area	0.038m <sup>2</sup>
	Max louvre size - side 2	190 x 700
	Ventilation free open area	0.067m <sup>2</sup>

### To specify

Nicholson Roofbox S2; insulated PPC aluminium roof cabinet to suit 400mm x 700mm roof opening. OA size 620mm x 920mm x 277mm high, supplied with H70 700mm weathering hood. Order code S2

#### Kerb options:

Nicholson Roofbox UPVC kerb upstand 150mm high. Order code S2-PVC

Nicholson Roofbox S2; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S2-AB200, S2-AB375, S2-AB450, S2-AB600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox S3

The Roofbox S3 is a standard, insulated, powder coated, aluminium roof cabinet for a 600mm x 900mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services and a pre-fitted 900mm weathering hood to protect the services where they enter the cabinet. An appropriate kerb height can be selected to enable integration into the roof build up.



### Roofbox S3 dimensions

Kerb	Roof opening size	600 x 900
	Available height in UPVC	150
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	277
	OA cabinet width	754
	OA cabinet length	1054
Lid	OA lid width	820
	OA lid length	1120
Service penetrations	Max services height	150
	Max services width - side 1	600
	Max services width - side 2	900
Ventilation louvres	Max louvre size - side 1	190 x 600
	Ventilation free open area	0.057m <sup>2</sup>
	Max louvre size - side 2	190 x 900
	Ventilation free open area	0.086m <sup>2</sup>

### To specify

Nicholson Roofbox S3; insulated PPC aluminium roof cabinet to suit 600mm x 900mm roof opening. OA size 820mm x 1120mm x 277mm high, supplied with H90 900mm weathering hood. Order code S3

#### Kerb options:

Nicholson Roofbox UPVC kerb upstand 150mm high. Order code S3-PVC

Nicholson Roofbox S3; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S3-AB200, S3-AB375, S3-AB450, S3-AB600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox S4

The Roofbox S4 is a standard, insulated, powder coated, aluminium roof cabinet for a 600mm x 600mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services. An appropriate kerb height can be selected to enable easy integration into the roof build up. Flashings for service penetrations should be ordered separately see pages 34-39.



### Roofbox S4 dimensions

Kerb	Roof opening size	600 x 600
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	602
	OA cabinet width	754
	OA cabinet length	754
Lid	OA lid width	820
	OA lid length	820
Service penetrations	Max services height	475
	Max services width - side 1	600
	Max services width - side 2	600
Ventilation louvres	Max louvre size - side 1	500 x 600
	Ventilation free open area	0.15m <sup>2</sup>
	Max louvre size - side 2	500 x 600
	Ventilation free open area	0.15m <sup>2</sup>

### To specify

Nicholson Roofbox S4; insulated PPC aluminium roof cabinet to suit 600mm x 600mm roof opening. OA size 820mm x 820mm x 602mm high. Flashings ordered separately to suit service penetrations Order code S4.

### Kerb options:

Nicholson Roofbox S4; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S4-AB200, S4-AB375, S4-AB450, S4-AB600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox S5

The Roofbox S5 is a standard, insulated, powder coated, aluminium roof cabinet for a 750mm x 750mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services. An appropriate kerb height can be selected to enable integration into the roof build up. Flashings for service penetrations should be ordered separately see pages 34-39.

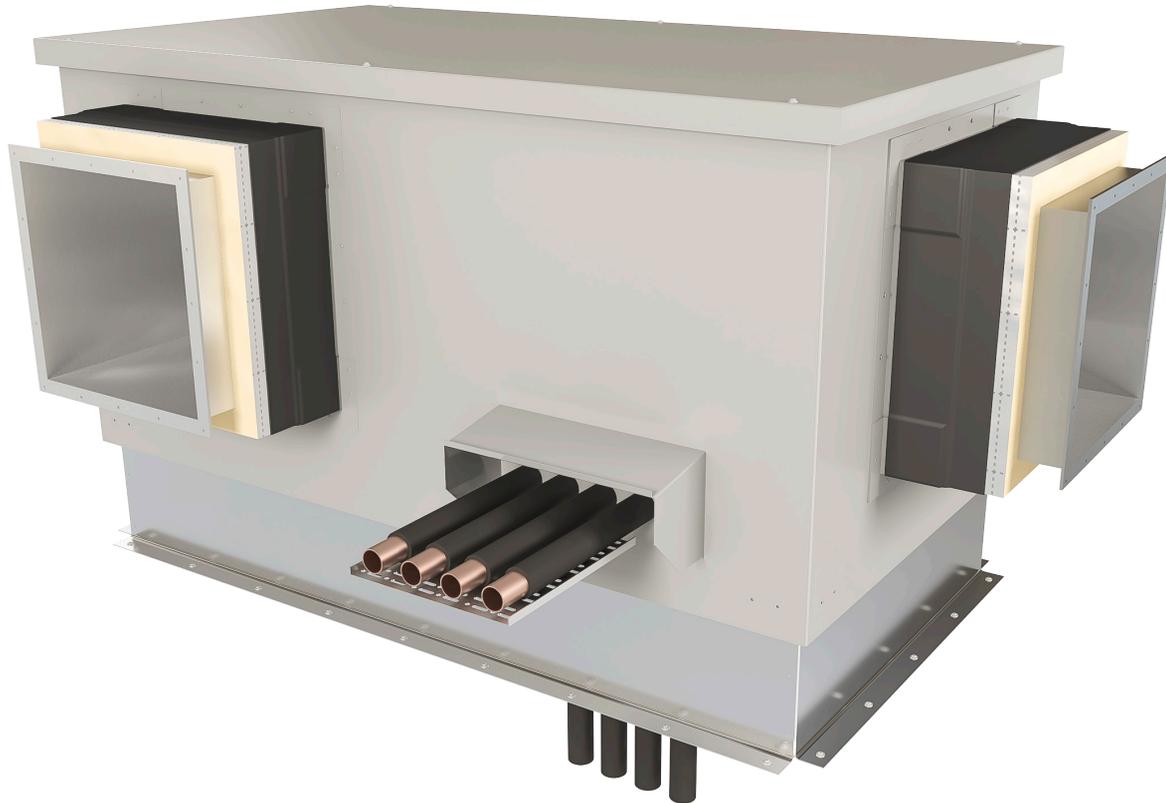


### Roofbox S5 dimensions

Kerb	Roof opening size	750 x 750
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	752
	OA cabinet width	904
	OA cabinet length	904
Lid	OA lid width	970
	OA lid length	970
Service penetrations	Max services height	625
	Max services width - side 1	750
	Max services width - side 2	750
Ventilation louvres	Max louvre size - side 1	625 x 750
	Ventilation free open area	0.234m <sup>2</sup>
	Max louvre size - side 2	625 x 750
	Ventilation free open area	0.234m <sup>2</sup>
<b>To specify</b>	Nicholson Roofbox S5; insulated PPC aluminium roof cabinet to suit 750mm x 750mm roof opening. OA size 970mm x 970mm x 752mm high. Flashings ordered separately to suit service penetrations. Order code S5	
	<b>Kerb options:</b>	
	Nicholson Roofbox S5; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S5-AB200, S5-AB375, S5-AB450, S5-AB600	
	Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 <a href="http://www.nicholsonsts.com">www.nicholsonsts.com</a>	

## Roofbox S6

The Roofbox S6 is a standard, insulated, powder coated, aluminium roof cabinet for a 750mm x 1500mm riser opening, finished in RAL 7047. It is supplied pre-assembled with a removable lid for easy installation of multiple services. An appropriate kerb height can be selected to enable integration into the roof build up. Flashings for service penetrations should be ordered separately see pages 34-39.



### Roofbox S6 dimensions

Kerb	Roof opening size	750 x 1500
	Available heights in aluminium	200, 375, 450, 600
Cabinet	OA height from kerb to top of lid	752
	OA cabinet width	904
	OA cabinet length	1654
Lid	OA lid width	970
	OA lid length	1720
Service penetrations	Max services height	625
	Max services width - side 1	750
	Max services width - side 2	1500
Ventilation louvres	Max louvre size - side 1	625 x 750
	Ventilation free open area	0.234m <sup>2</sup>
	Max louvre size - side 2	625 x 1500
	Ventilation free open area	0.468m <sup>2</sup>

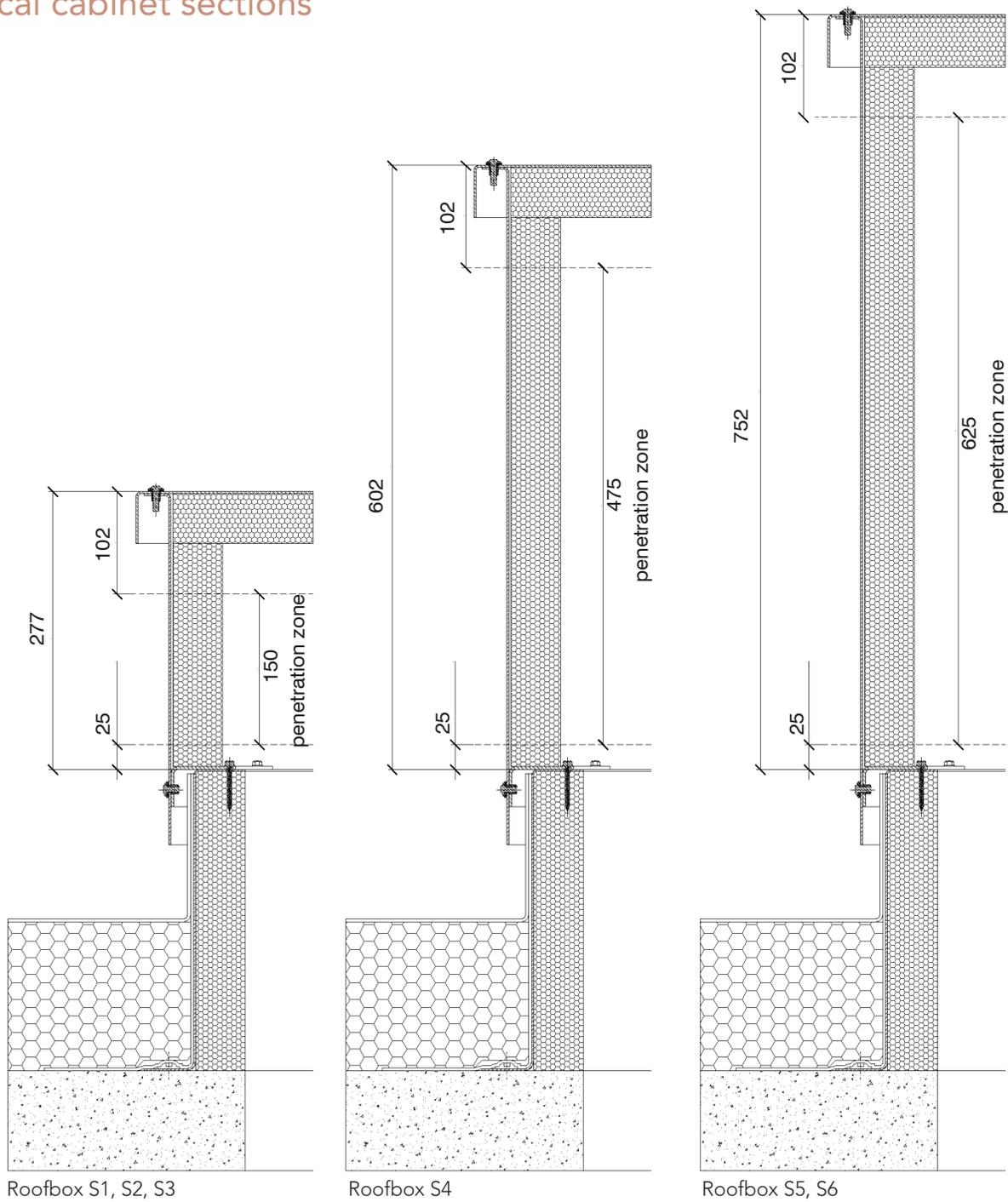
**To specify** Nicholson Roofbox S6; insulated PPC aluminium roof cabinet to suit 750mm x 31500mm roof opening. OA size 970mm x 1720mm x 752mm high. Flashings ordered separately to suit service penetrations. Order code S6

**Kerb options:**

Nicholson Roofbox S6; insulated aluminium kerb upstand 200mm/375mm/450mm/600mm high. Order codes, S6-AB200, S6-AB375, S6-AB450, S6-AB600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox S typical cabinet sections



Roofbox S1, S2, S3

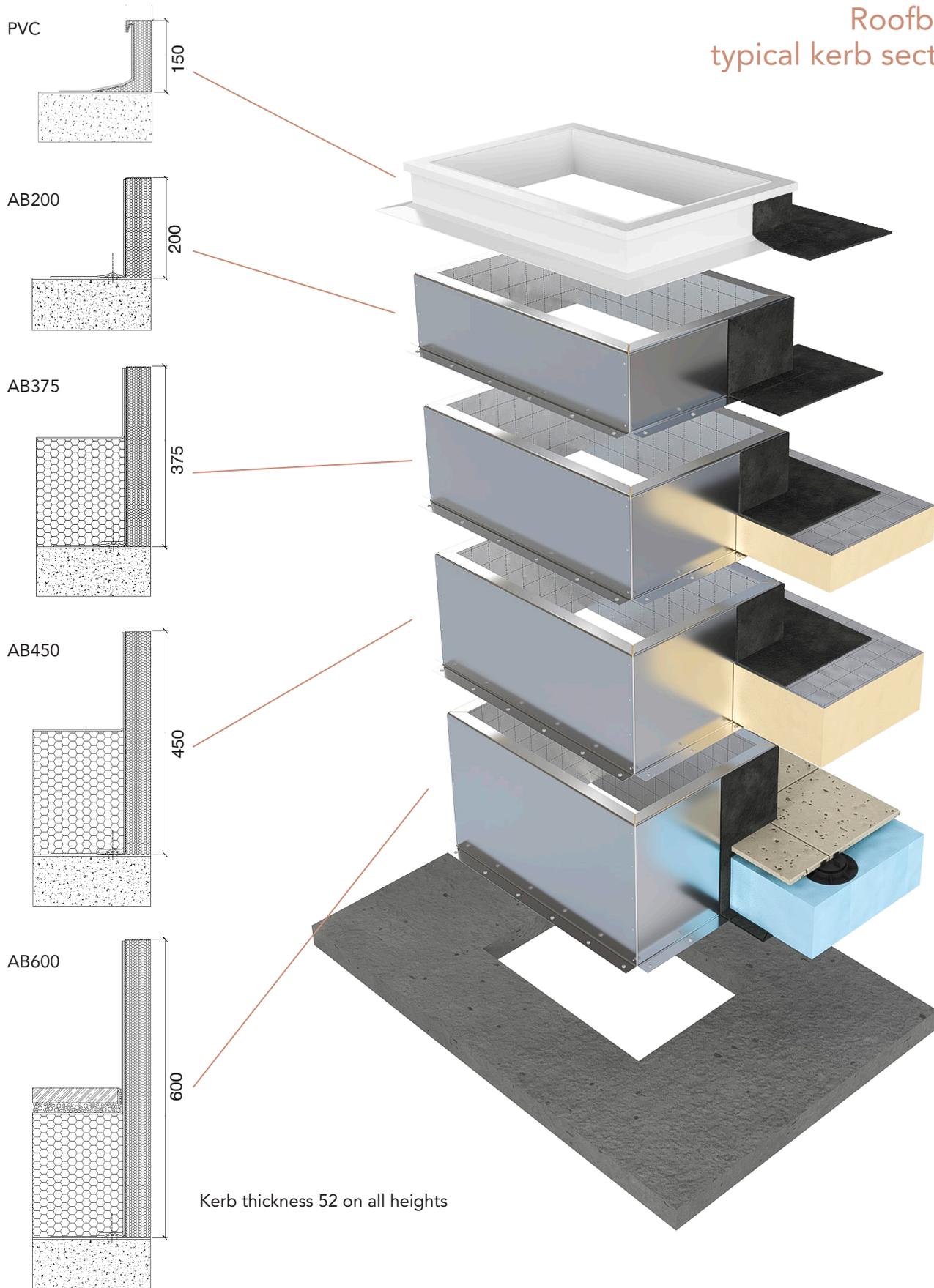
Roofbox S4

Roofbox S5, S6

### Roofbox S material specification

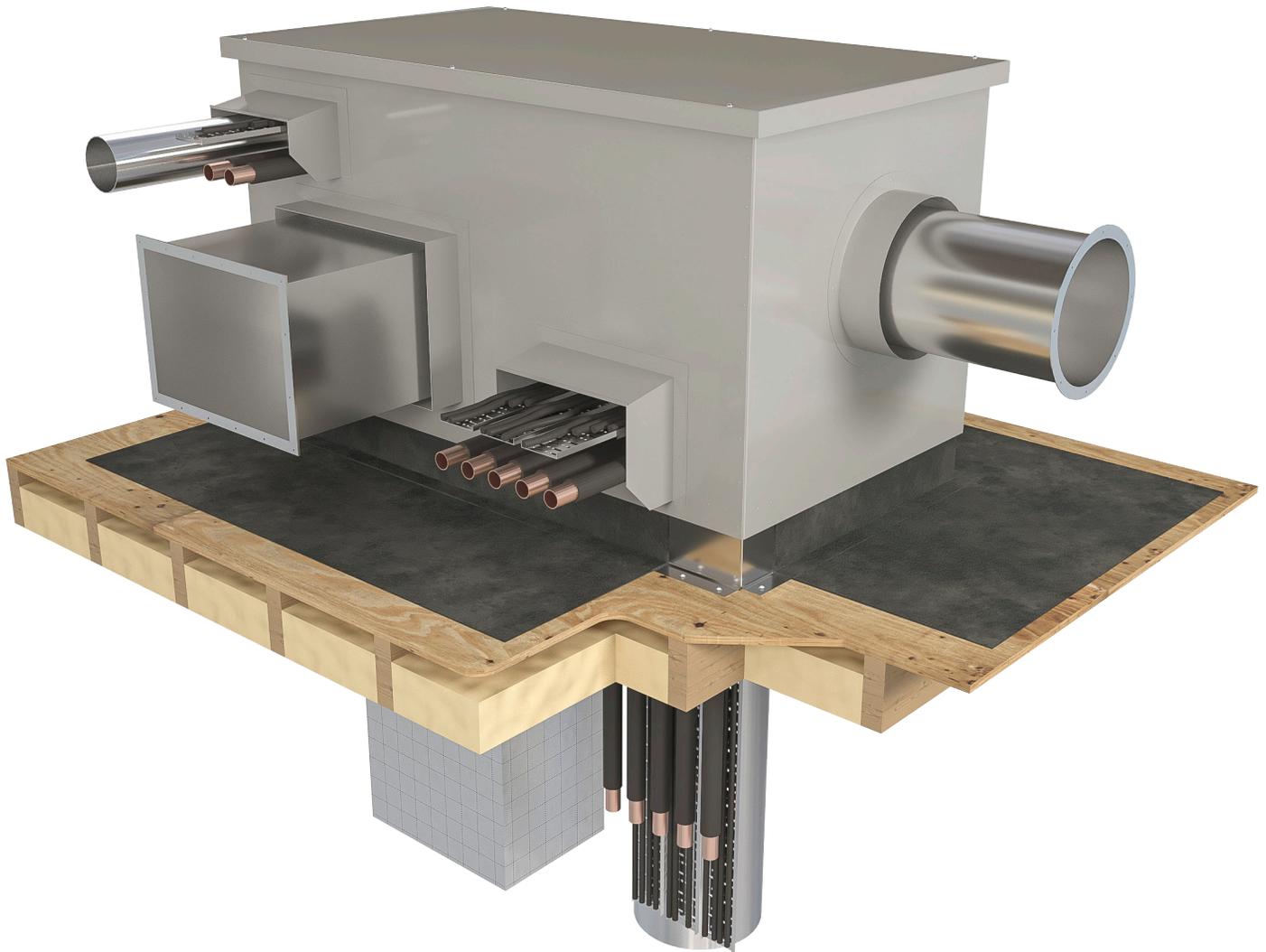
Unit & Lid construction	2.0mm 5251 grade aluminium, 50mm foil faced insulation, thermal efficiency, 0.34W/mK. PPC to RAL 7047
Kerb Construction	PVC kerb upstand or 2.0mm 5251 grade aluminium, 50mm foil faced insulation, thermal efficiency 0.34W/mK
Insulation	50mm foil faced PIR insulation 0.022 W/mk providing U value of 0.41. Fire performance: Class 1 (BS 476, Part 7), Euroclass F (BS EN 13501-1). Further insulation options are available to provide enhanced U values and fire ratings. Please contact our technical department for further information.
Flashing & weathering details	2.0mm 5251 grade aluminium , PPC to RAL 7047
Flashing fixing screws	A2 stainless steel with self drilling tip, ultra low-profile head with T25 drive, aluminium/EPDM bonded sealing washers. PPC to match panels and flashings.
Ventilation Louvres	50% open area, standard weather resistance Class C, 94.9-80.0%

Roofbox S  
typical kerb sections



The Roofbox S Kerbs are designed for use with the S cabinets and come in 5 different heights to facilitate integration with various types of roof construction. The aluminium kerbs are insulated with 50mm insulation and provide a 'U' value of 0.41W/mK. Further insulation options are available to provide enhanced U values and fire ratings. Please contact our technical department for further information. The S kerbs are delivered with the S cabinets and come pre-assembled and ready to install over the roof opening.

## Roofbox S Bespoke



Where the standard Roofbox S sizes are unsuited to site specific conditions, we can manufacture bespoke cabinets and bases as required, up to a maximum roof opening size of 1000mm x 1500mm and with a maximum cabinet height of 750mm.

These can be powder coated to any RAL colour and can incorporate louvre panels, access panels and specially designed flashings for ducts, cables and other service penetrations.

They are supplied pre-assembled and have a removable one-piece lid to facilitate the easy installation of services. Full approval drawings are supplied as part of the order process prior to manufacture.

Roofbox S cabinets are manufactured from 2.0mm aluminium insulated internally with 50mm PIR insulation giving 0.41 U value. Further insulation options can be supplied to provide enhanced U value and fire ratings where desired.

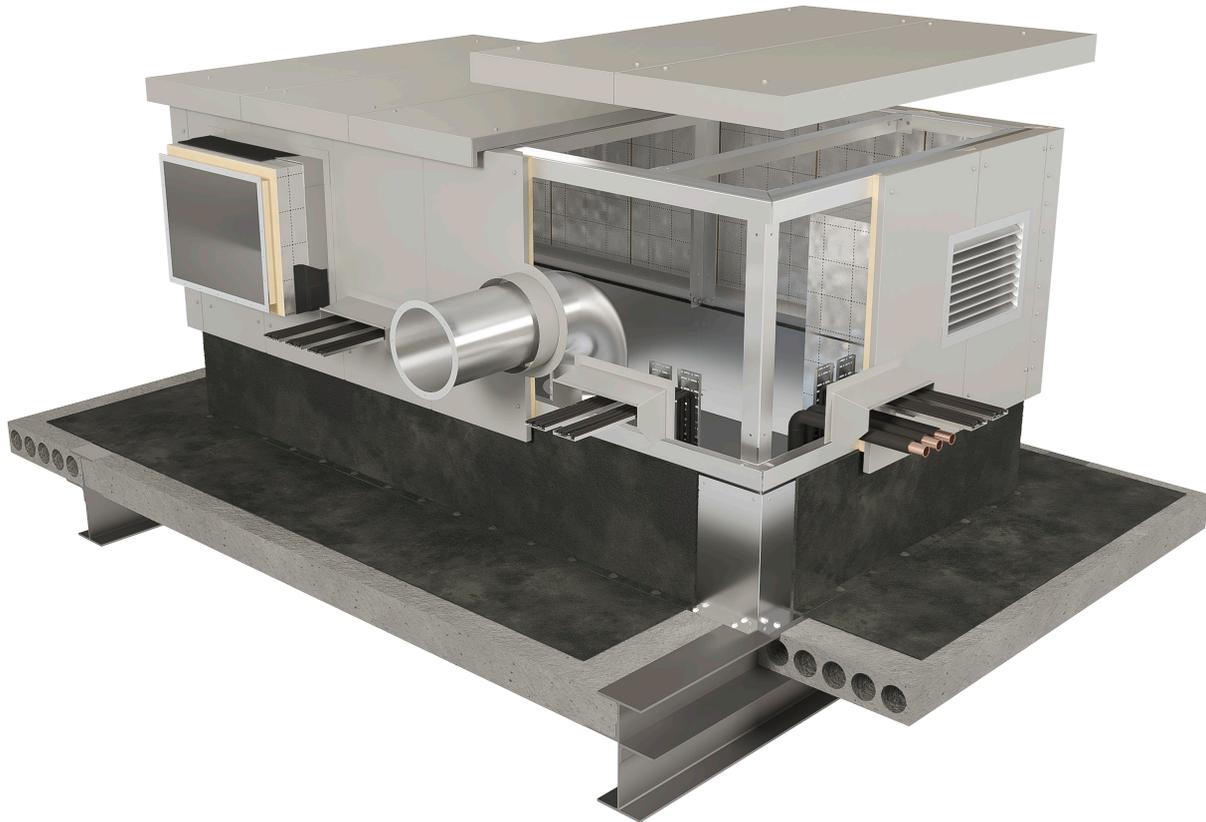


**Project:** : London Wall Place  
**Client:** JV between Brookfield and Oxford Properties  
**Architect:** Make  
**D&B Contractor:** Multiplex Construction Europe  
**M&E Consultant:** Hurley Palmer Flatt  
**Product:** Roofbox M Bespoke

# ROOFBOX M

## modular roof cabinets

**Project:** : Kingston Academy  
**Client:** Govt Education and Skills  
Funding Agency  
**Architect:** astudio, London  
**Main contractor:** Interserve  
**Product:** Roofbox M Bespoke



The Roofbox M range is designed as a modular frame and panel system which can be expanded as required to cover larger riser openings. There are 6 standard versions each available in two different heights. The M range is delivered to site in component form with instructions for assembly and positioning on the riser.

The M range of Roofbox cabinets are insulated and supplied with a kerb upstand in varying heights to accommodate various roof constructions. Flashings for ducts, cables and pipes are available as shown in the flashings section on pages 34-39

Bespoke versions of the M range are also available which can be retrofitted around existing services see page 33 for further details.



M1



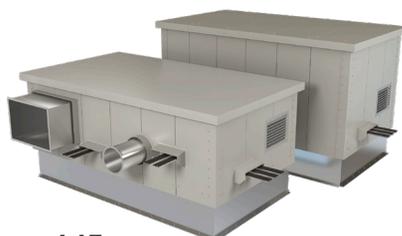
M2



M3



M4



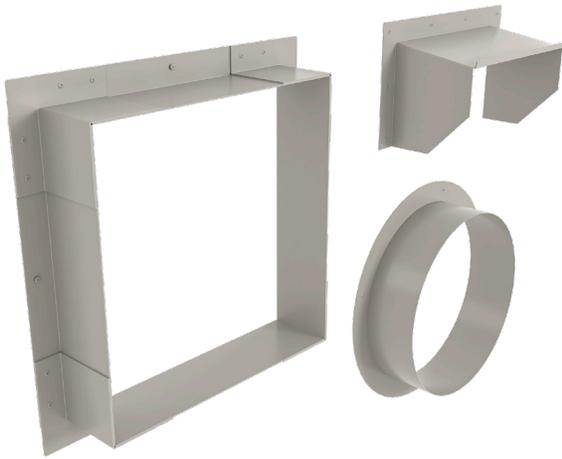
M5



M6

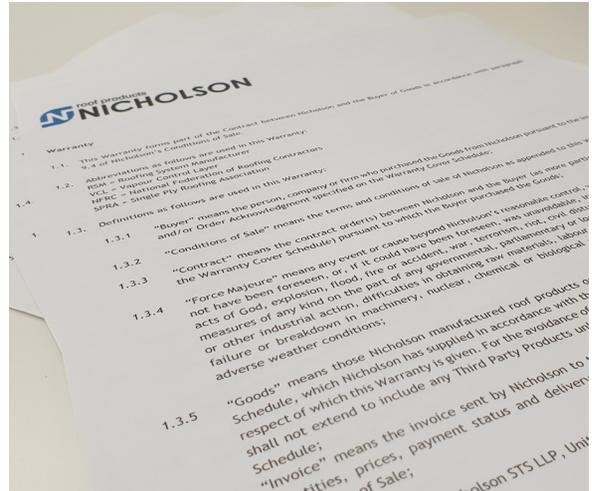
## Roofbox M key features and benefits

**Range of duct flashings and accessories**  
providing an engineered final seal to services



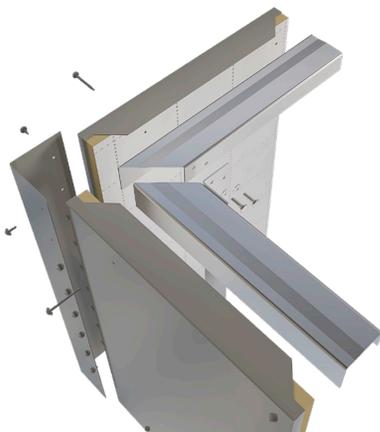
A range of flashings and accessories are available to weather ductwork, pipework and cables. See page 34-39 on flashings and accessories for further information.

**Roofbox as-installed warranty**  
ensures total peace of mind



A comprehensive 10 year product warranty is available as standard on the Roofbox M system. An enhanced 20 year guarantee against leaks is available for UK projects, subject to a successful warranty application at design stage and a post-installation inspection.

**Bolt together system**  
enabling fast onsite assembly



The modular system allows the Roofbox M cabinets to be expanded to suit the size of the riser. The frame simply bolts together and the panels and lid sections are fixed to the frame. Panels can be removed as required, to facilitate the running of services and for access.

**Palletised delivery**  
for easy handling on site



The Roofbox M cabinets are delivered in component form ready for installation on-site. The pallets can be crane lifted to the appropriate location on the roof ready for assembly. All necessary fixings and bolts are included in the supply. Full fitting instructions are provided for each Roofbox.

## Roofbox M key features and benefits

**Pre-manufactured kerb**  
to assist early waterproofing of aperture



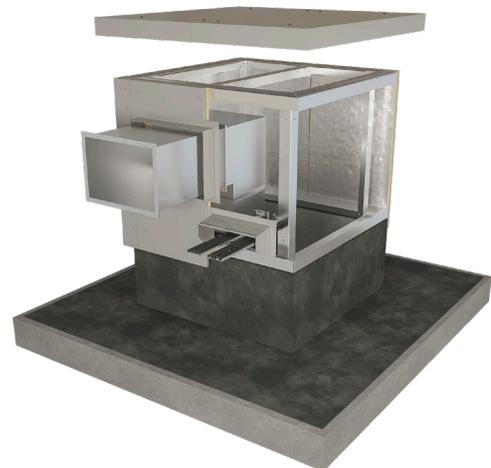
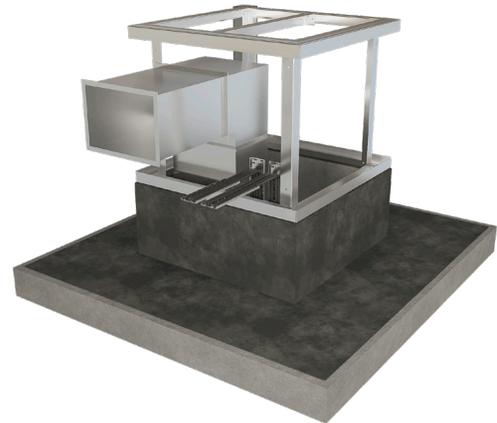
The standard M configurations are supplied with the Roofbox K insulated modular Kerb. This can help to avoid labour intensive formwork and save time building a kerb on site.

**Kerb apron flashing**  
to weather over front-insulated kerbs



Where the roofing system requires the kerb to be insulated externally, the Roofbox M system has an apron flashing option to ensure the weathering extends past this layer.

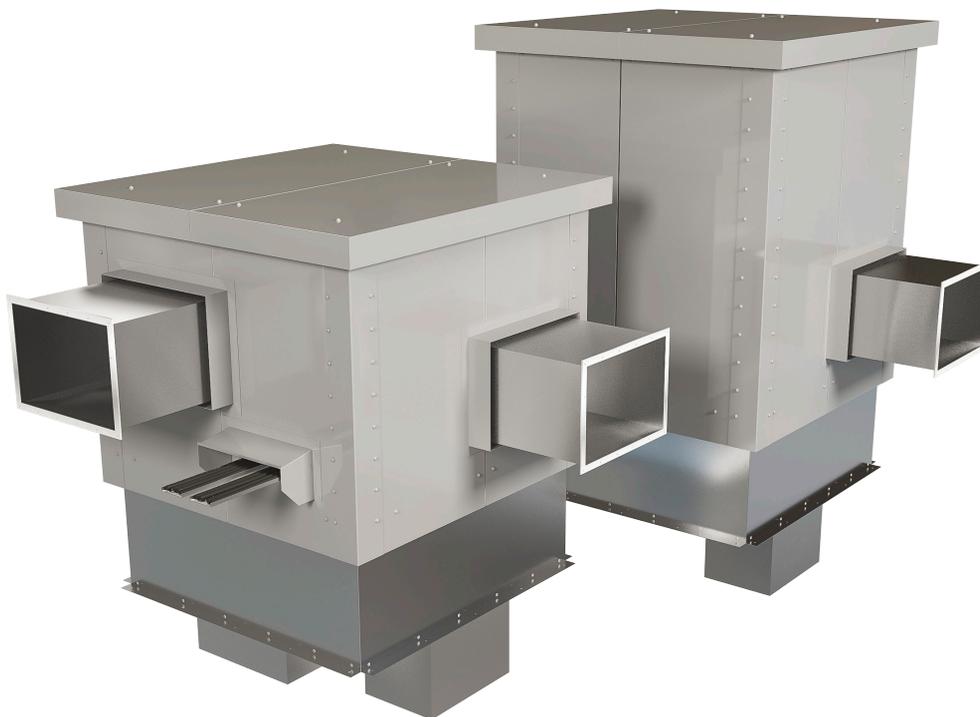
**Retrofit capability**  
allows flexible program sequencing



The Roofbox M Bespoke system can be retrofitted to existing kerb upstands and also around existing services. See page 33.

## Roofbox M1

The Roofbox M1 is a standard roof cabinet from the Roofbox modular range. It can be used with the Roofbox K1 kerb which provides weathering for a clear roof opening of 1000mm x 1000mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services - see pages 34-39. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M1 dimensions

		1000 high	1500 high
Kerb - Roofbox K1	Roof opening size	1000 x 1000	1000 x 1000
	Outer kerb dimensions	1230 x 1230	1230 x 1230
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1332 x 1332	1332 x 1332
	OA lid size	1462 x 1462	1462 x 1462
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	878	878
	Max services width - side 2	878	878
Ventilation louvres	Max louvre size - side 1	1000w x 730h	1000w x 1230h
	Effective free vent area - side 1	0.365m <sup>2</sup>	0.615m <sup>2</sup>
	Max louvre size - side 2	1000w x 730h	1000w x 1230h
	Effective free vent area - side 2	0.365m <sup>2</sup>	0.615m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 0.5		

### To specify

Nicholson Roofbox M1-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 1000mm. OA size 1462mm x 1462mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M1-1000.

Nicholson Roofbox M1-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 1000mm. OA size 1462mm x 1462mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M1-1500

### Kerb options:

Nicholson Roofbox K1 insulated kerb with thermal break to suit Roofbox M1. 200mm, 375mm, 450mm, 600mm high. Order codes K1-200, K1-375, K1-450, K1-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M2

The Roofbox M2 is a standard roof cabinet from the Roofbox modular range. When used with the Roofbox K2 kerb it provides a roof opening of 1000mm x 1500mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M2 dimensions

		1000 high	1500 high
Kerb - Roofbox K2	Roof opening size	1000 x 1500	1000 x 1500
	Outer kerb dimensions	1230 x 1730	1230 x 1730
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1332 x 1832	1332 x 1832
	OA lid size	1462 x 1962	1462 x 1962
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	878	878
	Max services width - side 2	1378	1378
Ventilation louvres	Max louvre size - side 1	1000w x 730h	1000w x 1230h
	Effective free vent area - side 1	0.365m <sup>2</sup>	0.615m <sup>2</sup>
	Max louvre size - side 2	1500w x 730h	1500w x 1230h
	Effective free vent area - side 2	0.548m <sup>2</sup>	0.923m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 0.5		

### To specify

Nicholson Roofbox M2-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 1500mm. OA size 1462mm x 1962mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M2-1000.

Nicholson Roofbox M2-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 1500mm. OA size 1462mm x 1962mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M2-1500

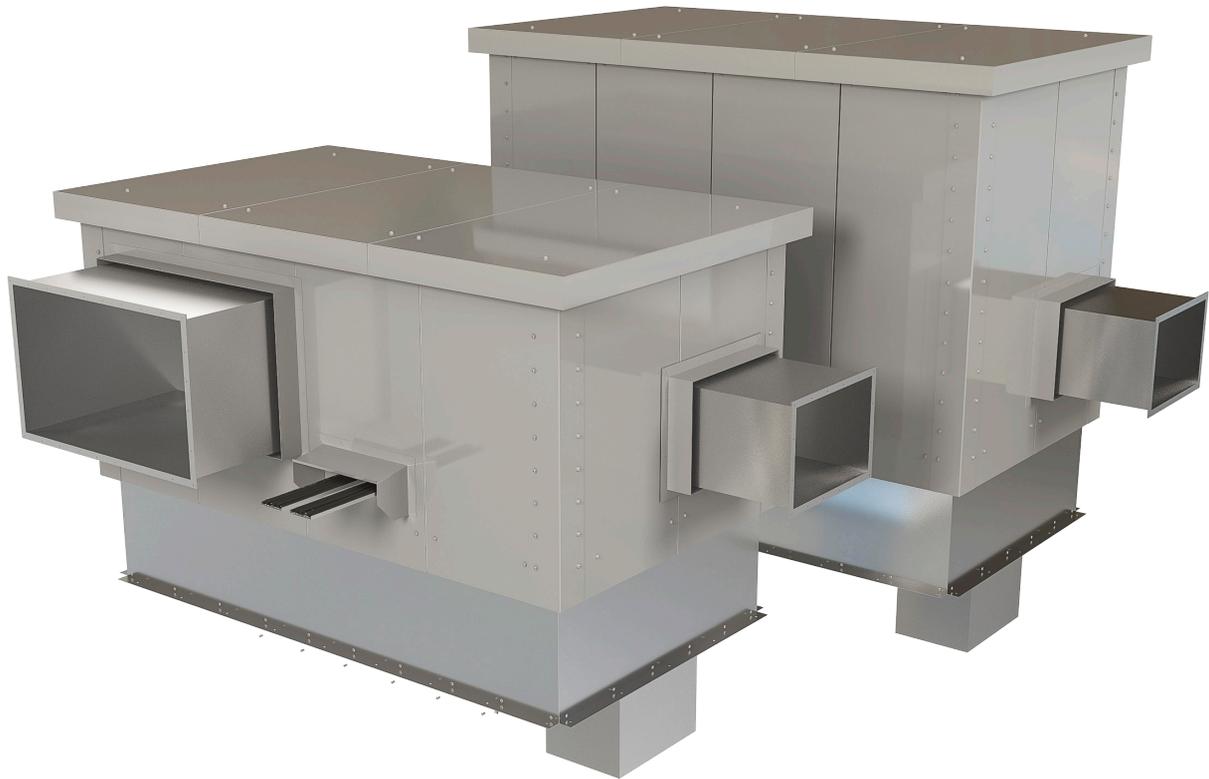
### Kerb options:

Nicholson Roofbox K2 insulated kerb with thermal break to suit Roofbox M2. 200mm, 375mm, 450mm, 600mm high. Order codes K2-200, K2-375, K2-450, K2-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M3

The Roofbox M3 is a standard roof cabinet from the Roofbox modular range. When used with the Roofbox K3 kerb it provides a roof opening of 1000mm x 2000mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services - see pages 34-39. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M3 dimensions

		1000 high	1500 high
Kerb - Roofbox K3	Roof opening size	1000 x 2000	1000 x 2000
	Outer kerb dimensions	1230 x 2230	1230 x 2230
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1332 x 2332	1332 x 2332
	OA lid size	1462 x 2462	1462 x 2462
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	878	878
	Max services width - side 2	1878	1878
Ventilation louvres	Max louvre size - side 1	1000w x 730h	1000w x 1230h
	Effective free vent area - side 1	0.365m <sup>2</sup>	0.615m <sup>2</sup>
	Max louvre size - side 2	2000w x 730h	2000w x 1230h
	Effective free vent area - side 2	0.730m <sup>2</sup>	1.230m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 0.5		

### To specify

Nicholson Roofbox M3-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 2000mm. OA size 1462mm x 2462mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M3-1000.

Nicholson Roofbox M3-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1000mm x 2000mm. OA size 1462mm x 2462mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M3-1500

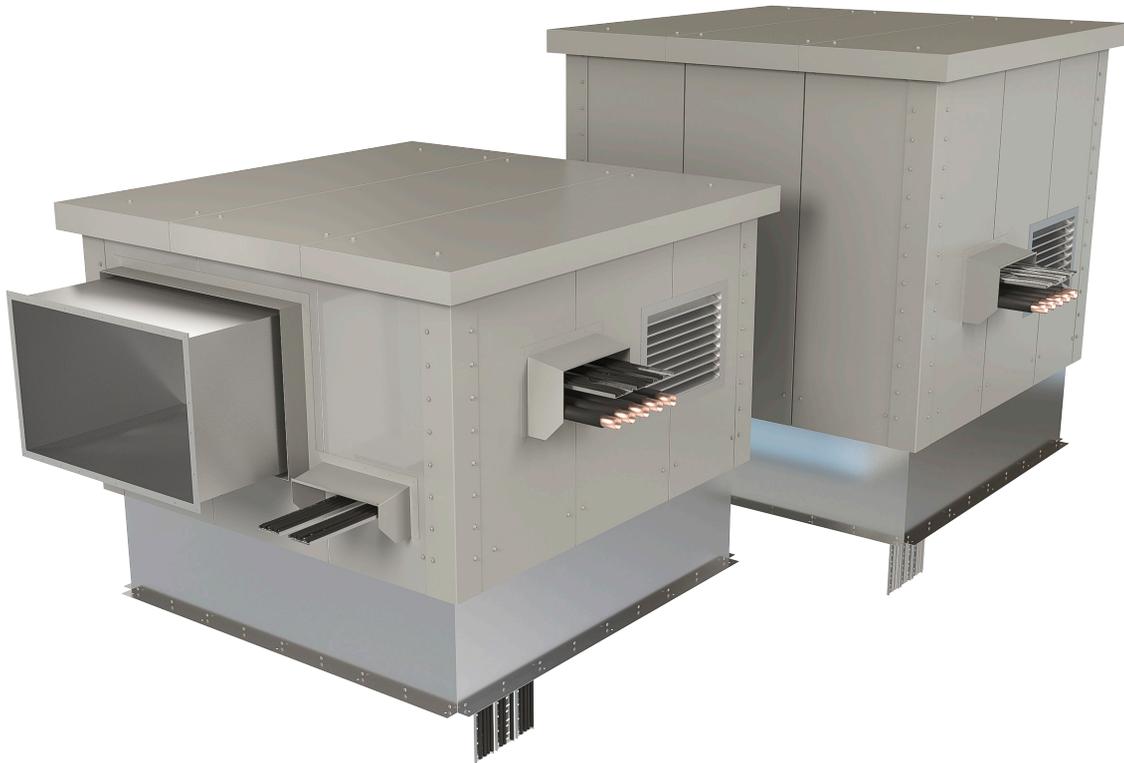
### Kerb options:

Nicholson Roofbox K3 insulated kerb with thermal break to suit Roofbox M3. 200mm, 375mm, 450mm, 600mm high. Order codes K3-200, K3-375, K3-450, K3-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M4

The Roofbox M4 is a standard roof cabinet from the Roofbox modular range. When used with the Roofbox K4 kerb it provides a roof opening of 1500mm x 1500mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services - see pages 34-39. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M4 dimensions

		1000 high	1500 high
Kerb - Roofbox K4	Roof opening size	1500 x 1500	1500 x 1500
	Outer kerb dimensions	1730 x 1730	1730 x 1730
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1832 x 1832	1832 x 1832
	OA lid size	1962 x 1962	1962 x 1962
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	1378	1378
	Max services width - side 2	1378	1378
Ventilation louvres	Max louvre size - side 1	1500w x 730h	1500w x 1230h
	Effective free vent area - side 1	0.548m <sup>2</sup>	0.923m <sup>2</sup>
	Max louvre size - side 2	1500w x 730h	1500w x 1230h
	Effective free vent area - side 2	0.548m <sup>2</sup>	0.923m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 0.75		

### To specify

Nicholson Roofbox M4-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 1500mm. OA size 1962mm x 1962mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M4-1000.

Nicholson Roofbox M4-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 1500mm. OA size 1962mm x 1962mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M4-1500

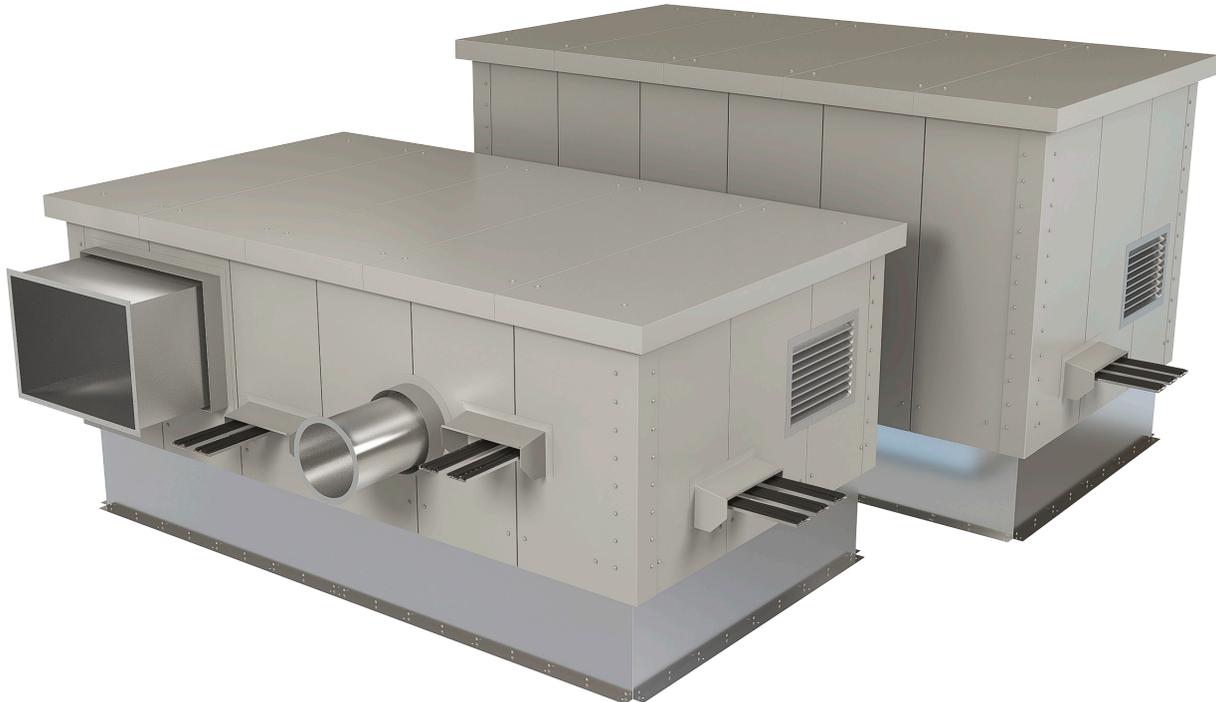
### Kerb options:

Nicholson Roofbox K4 insulated kerb with thermal break to suit Roofbox M4. 200mm, 375mm, 450mm, 600mm high. Order codes K4-200, K4-375, K4-450, K4-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M5

The Roofbox M5 is a standard roof cabinet from the Roofbox modular range. When used with the Roofbox K5 kerb it provides a roof opening of 1500mm x 3000mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services - see pages 34-39. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M5 dimensions

		1000 high	1500 high
Kerb - Roofbox K5	Roof opening size	1500 x 3000	1500 x 3000
	Outer kerb dimensions	1730 x 3230	1730 x 3230
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1832 x 3332	1832 x 3332
	OA lid size	1962 x 3462	1962 x 3462
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	1378	1378
	Max services width - side 2	2 no at 1364	2 no at 1364
Ventilation louvres	Max louvre size - side 1	1500w x 730h	1500w x 1230h
	Effective free vent area - side 1	0.548m <sup>2</sup>	0.923m <sup>2</sup>
	Max louvre size - side 2	2 no 1400w x 730h	2 no 1400w x 1230h
	Effective free vent area - side 2	1.022m <sup>2</sup>	1.722m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 1.0		

### To specify

Nicholson Roofbox M5-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 3000mm. OA size 1962mm x 3462mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M5-1000.

Nicholson Roofbox M5-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 3000mm. OA size 1962mm x 3462mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M5-1500

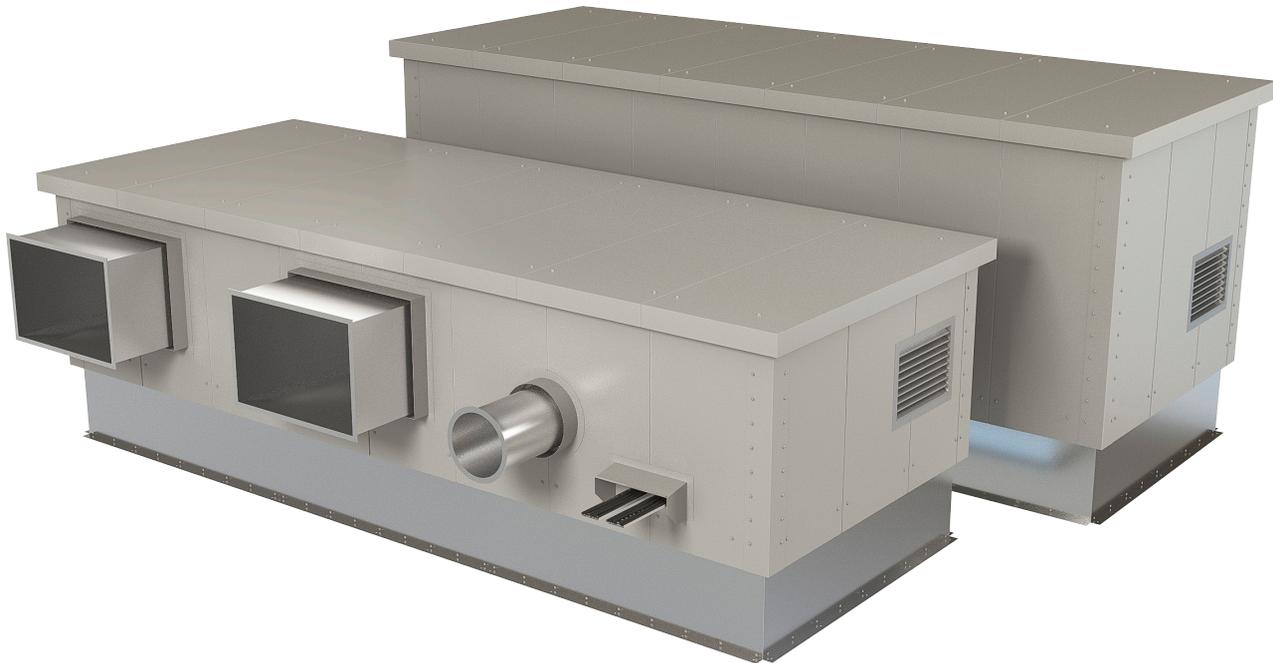
### Kerb options:

Nicholson Roofbox K5 insulated kerb with thermal break to suit Roofbox M5. 200mm, 375mm, 450mm, 600mm high. Order codes K5-200, K5-375, K5-450, K5-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M6

The Roofbox M6 is a standard roof cabinet from the Roofbox modular range. When used with the Roofbox K6 kerb it provides a roof opening of 1500mm x 4500mm and is available in two different heights. Due to their size, the Roofbox M range of roof cabinets are supplied in component form for simple assembly on-site. Flashings and weathering accessories can be supplied to suit services - see pages 34-39. The Roofbox M roof cabinets can be used with site formed kerbs if preferred.



### Roofbox M6 dimensions

		1000 high	1500 high
Kerb - Roofbox K6	Roof opening size	1500 x 4500	1500 x 4500
	Outer kerb dimensions	1730 x 4730	1730 x 4730
	Available kerb heights	200, 375, 450, 600	200, 375, 450, 600
Cabinet	OA cabinet size	1832 x 4832	1832 x 4832
	OA lid size	1962 x 4962	1962 x 4962
	OA height from kerb to top of lid	1000	1500
Service penetrations	Max services height	730	1230
	Max services width - side 1	1378	1378
	Max services width - side 2	2 no at 1364 & 1 no at 1350	2 no at 1364 & 1 no at 1350
Ventilation louvres	Max louvre size - side 1	1500w x 730h	1500w x 1230h
	Effective free vent area - side 1	0.548m <sup>2</sup>	0.923m <sup>2</sup>
	Max louvre size - side 2	3 no 1400w x 730h	3 no 1400w x 1230h
	Effective free vent area - side 2	1.533m <sup>2</sup>	2.583m <sup>2</sup>
Flashings and accessories	See page 34 - 39		
Typical installation time	2 man day x 1.5		

### To specify

Nicholson Roofbox M6-1000; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 4500mm. OA size 1962mm x 4962mm x 1000mm high. Weathering accessories ordered separately to suit services. Order code M6-1000.

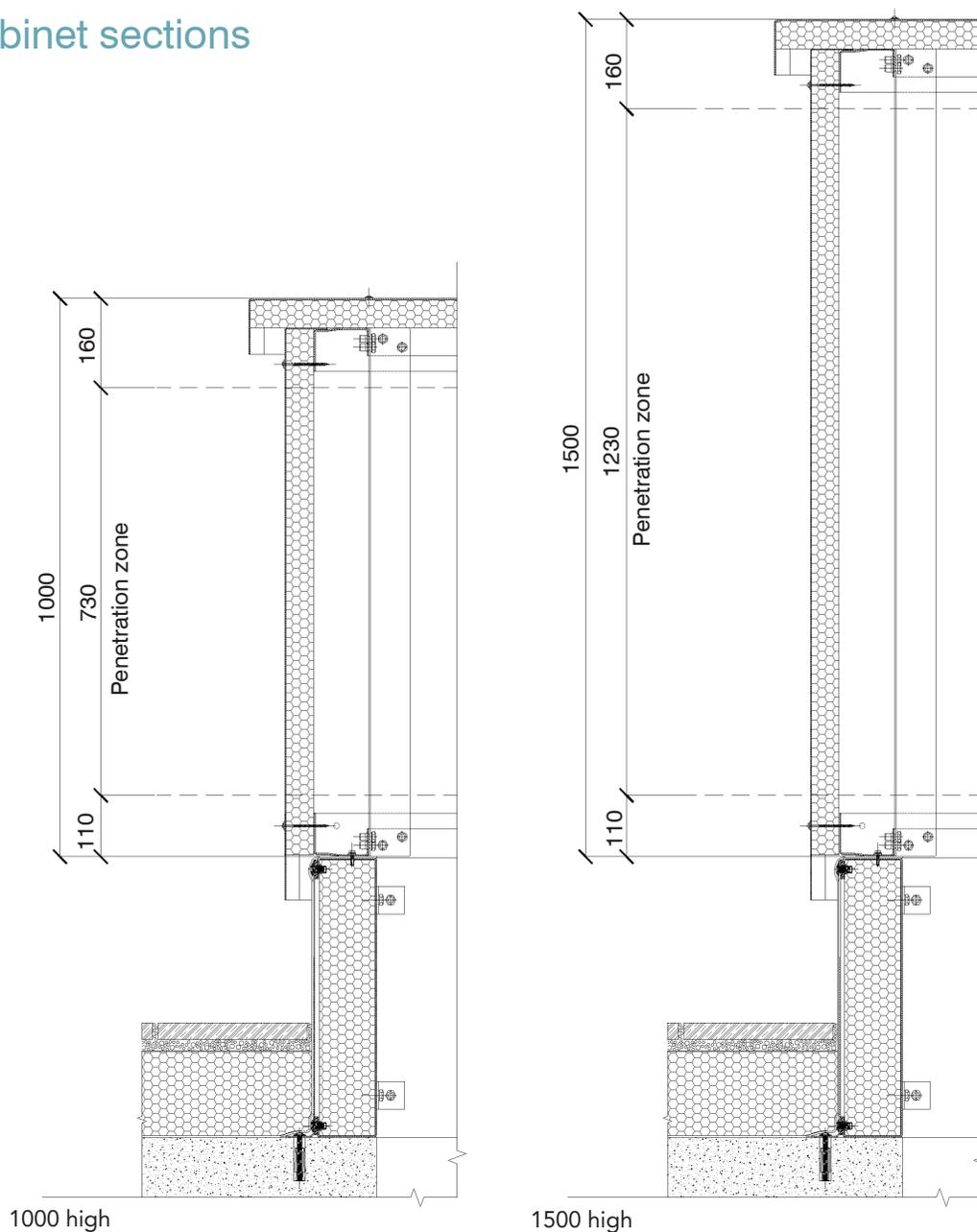
Nicholson Roofbox M6-1500; insulated PPC aluminium modular roof cabinet to suit roof opening 1500mm x 4500mm. OA size 1962mm x 4962mm x 1500mm high. Weathering accessories ordered separately to suit services. Order code M6-1500

### Kerb options:

Nicholson Roofbox K6 insulated kerb with thermal break to suit Roofbox M6. 200mm, 375mm, 450mm, 600mm high. Order codes K6-200, K6-375, K6-450, K6-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox M typical cabinet sections

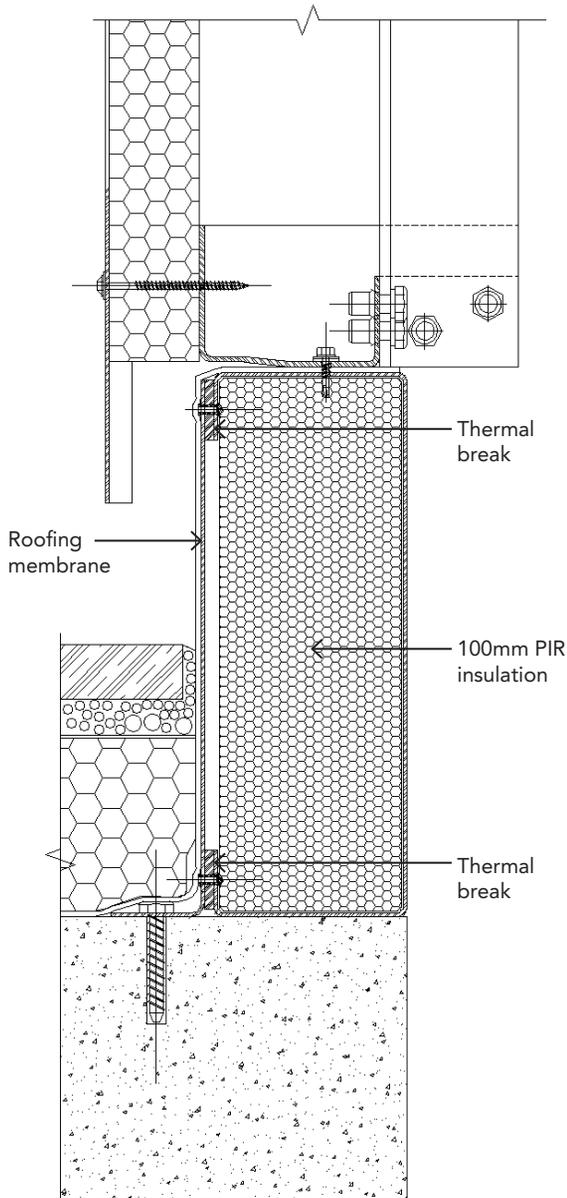


### Roofbox M material specification

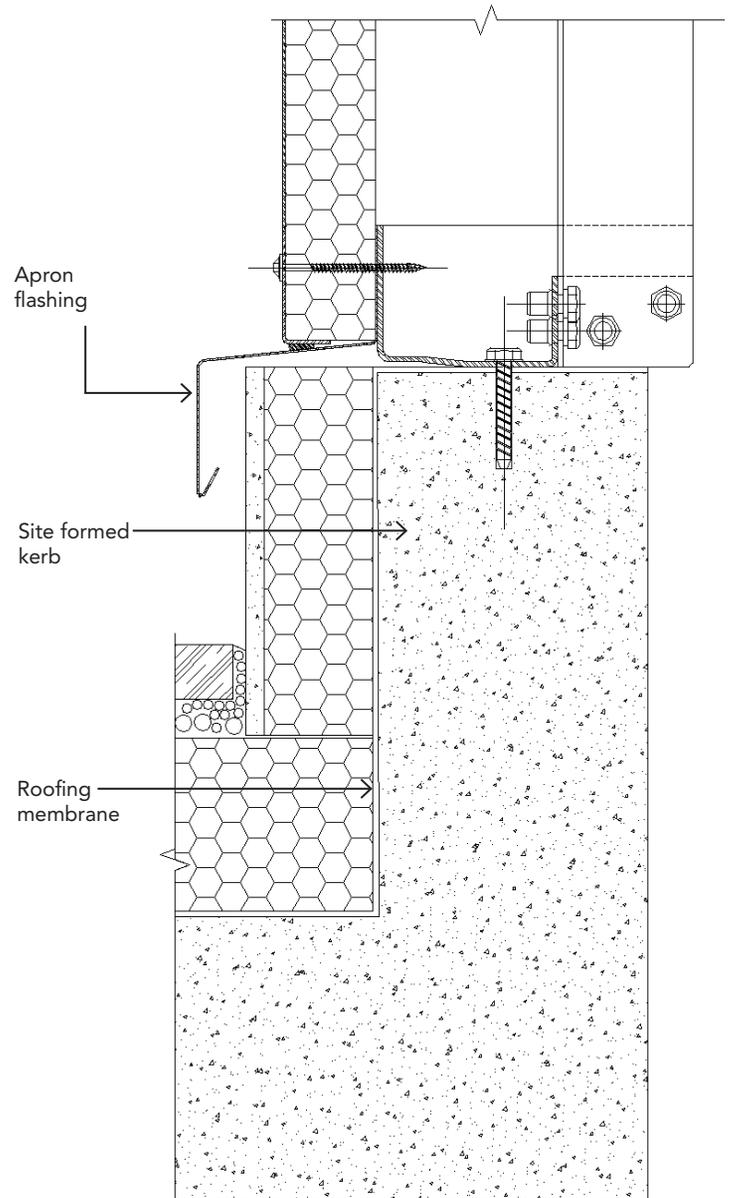
Frame components	3.0mm 5251 grade aluminium - standard, 3.0mm mild steel - galvanised finish - for longer spans
Frame bolting	A2 Stainless steel M10 bolts, nuts and washers
Apron flashing	1.0mm 5251 grade aluminium, PPC to any RAL colour
Vertical panels	2.0mm 5251 grade aluminium, 50mm foil faced insulation, thermal efficiency 0.34W/mK, PPC to any RAL colour
Roof closure panels	3.0mm 5251 grade aluminium, 50mm foil faced insulation, thermal efficiency 0.34W/mK, PPC to any RAL colour
Insulation in panels	50mm foil faced PIR insulation 0.022 W/mk providing U value of 0.41. Fire performance: Class 1 (BS 476, Part 7), Euroclass F (BS EN 13501-1). Further insulation options are available to provide enhanced U values and fire ratings. Please contact our technical department for further information.
Insulation in kerb	See page 45 for Roofbox K specification
Compressible foam seal	Impregnated PUR flexible foam tape with fire resistant polymeric impregnant
Flashings	2.0mm 1050 grade aluminium, PPC to match panels
Panel and flashing fixing screws	A2 stainless steel with self-drilling tip, ultra low-profile head with T25 drive, aluminium/EPDM bonded sealing washers, PPC to match panels and flashings

Roofbox M  
typical kerb sections

Roofbox M on K series kerb



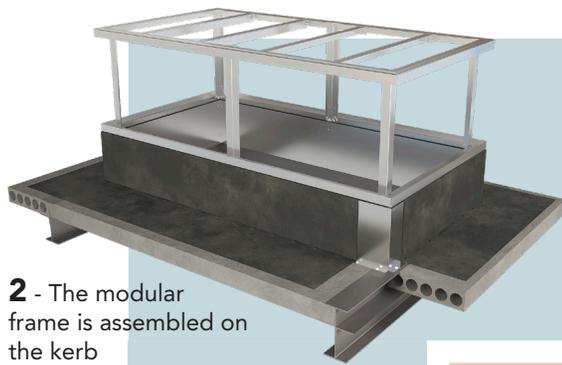
Roofbox M on concrete kerb



The Roofbox K range of modular kerbs are manufactured from aluminium and have 100mm PIR insulation internally. They feature a thermal break for improved efficiency and are manufactured in sections for easy transportation. Once on site they are bolted together and are then fixed to the roof deck. The standard kerbs shown are available in four different heights to suit different roof constructions see pages 40-46 for further details.

## Roofbox M Installation sequence

### Recommended sequence



**2** - The modular frame is assembled on the kerb

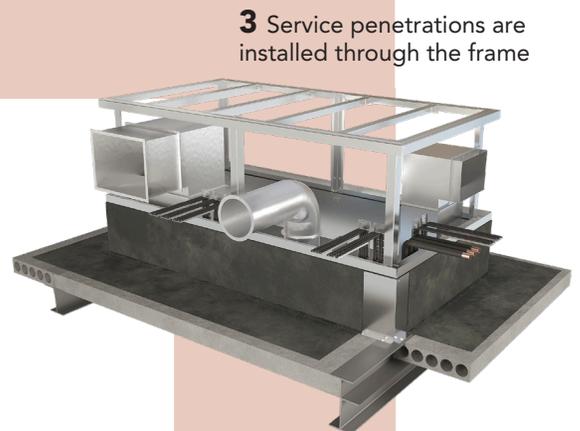


**1** - The kerb is weathered by the roofing contractor

### Alternative sequence



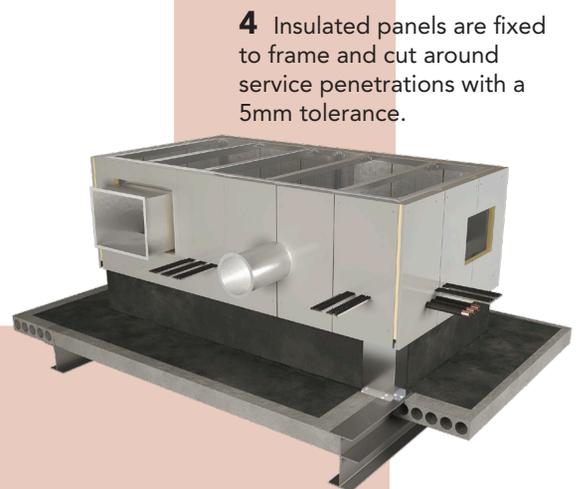
**3** - The Insulated panels are fixed to the frame



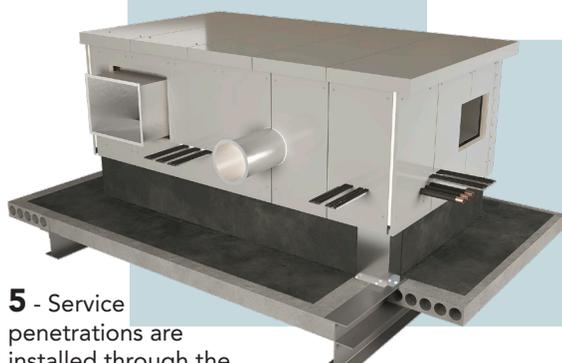
**3** Service penetrations are installed through the frame



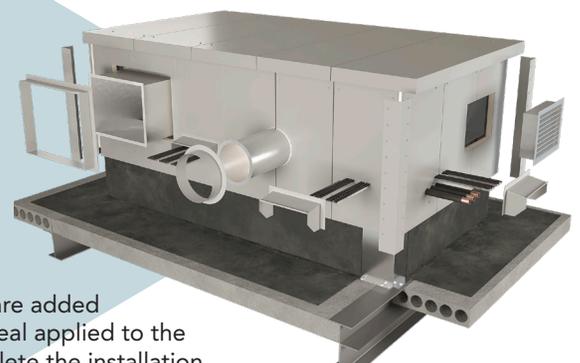
**4** - The insulated lid panels are installed making the riser weatherproof



**4** Insulated panels are fixed to frame and cut around service penetrations with a 5mm tolerance.

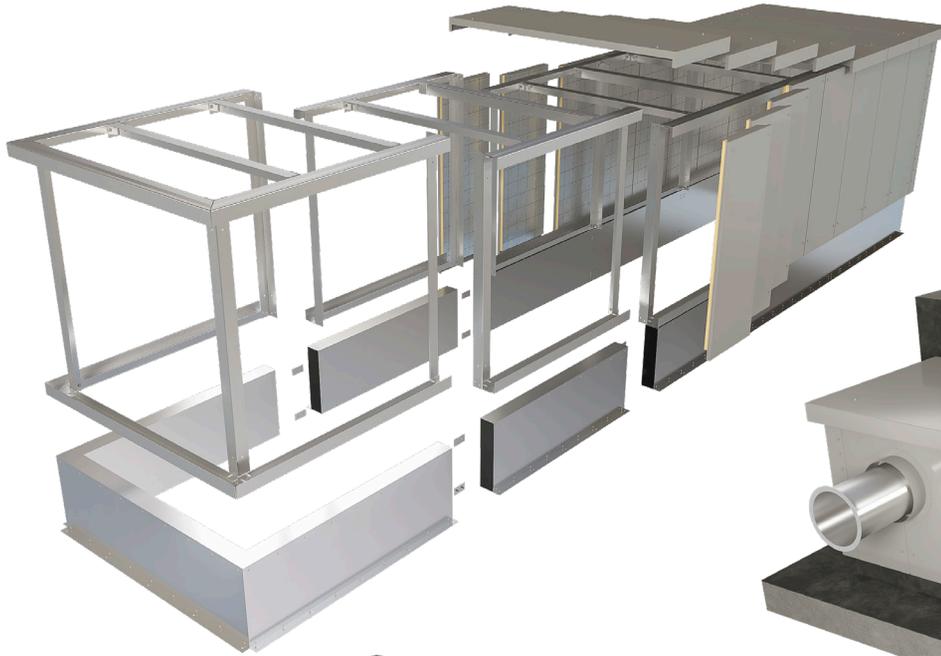


**5** - Service penetrations are installed through the panels

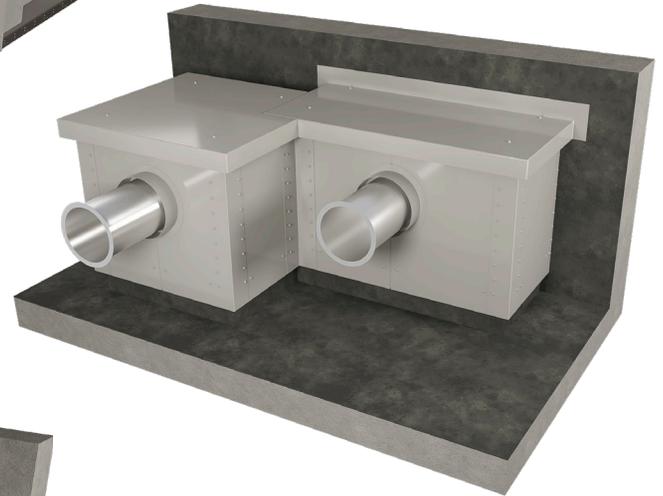


**6** - Flashings are added and a mastic seal applied to the joints to complete the installation

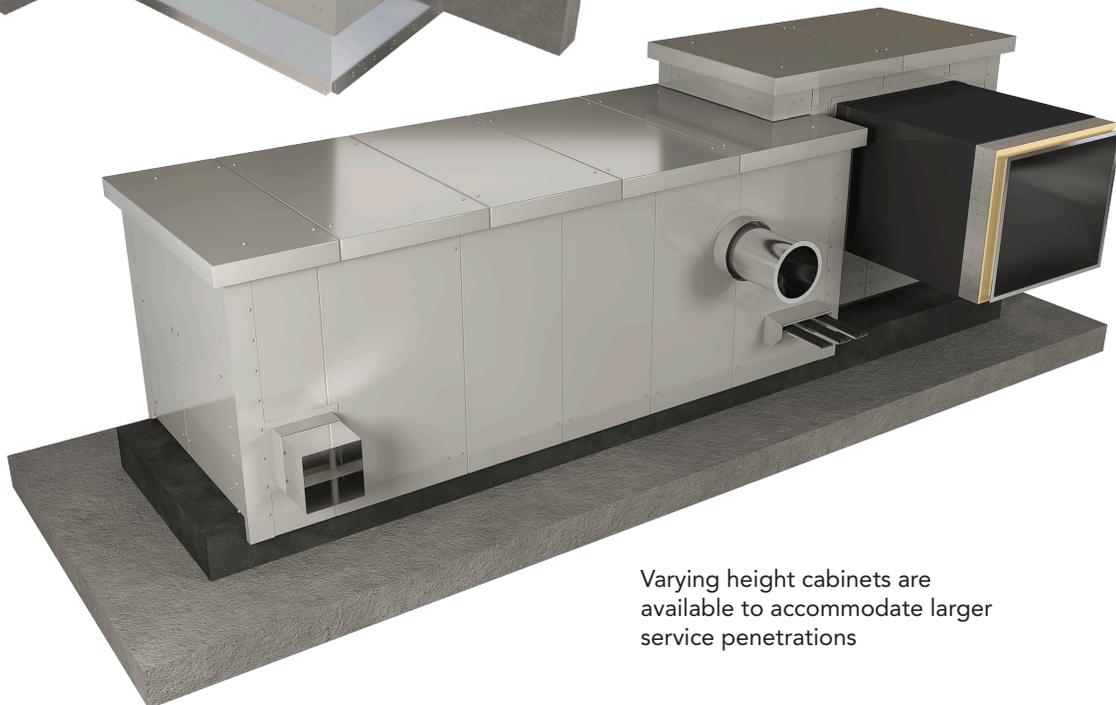
## Roofbox M Bespoke



Modular construction allows bespoke configuration to suit site specific dimensions



Roofbox bespoke cabinets can be configured to interface with parapets and lift overruns. The versatile system facilitates a solution for most situations



Varying height cabinets are available to accommodate larger service penetrations

Where the standard configurations in the Roofbox M range are not suitable for particular site situations, the Roofbox M range can be manufactured to suit larger or different size or shaped riser openings and in taller heights. The M Bespoke roof cabinets can also be configured to interface with parapet walls, corners and lift overruns. On receipt of detailed information on the riser opening sizes, full working drawing for approval will be provided prior to manufacture. Where appropriate a site survey can be carried out by our technical staff. The M Bespoke range can also be powder coated to any RAL colour enabling the Roofbox system to blend in with any particular roofscape.



# ROOFBOX

## flashings and accessories

**Project:** : Sussex House, London, WC2

**Client:** Longmartin Properties Ltd

**Architect:** Ian Ritchie Architects

**Main Contractor:** Geoffrey Osborne Ltd

**Product:** Roofbox M Bespoke with H40 weathering hood and RF Round flashing

Roofbox  
flashings and accessories



As part of the Roofbox system we also supply a range of flashings and accessories to ensure that the service penetrations are properly weathered to the wall of the roof cabinets as they pass through. The Roofbox Universal Flashing system is designed for square and rectangular ducts. Flashings for round ducts are made to suit the diameter of the duct or pipework. These flashings are mostly manufactured from aluminium and powder coated to provide a durable and lasting seal.



Weathering hood



Universal flashing



Round flashing



Split round flashing

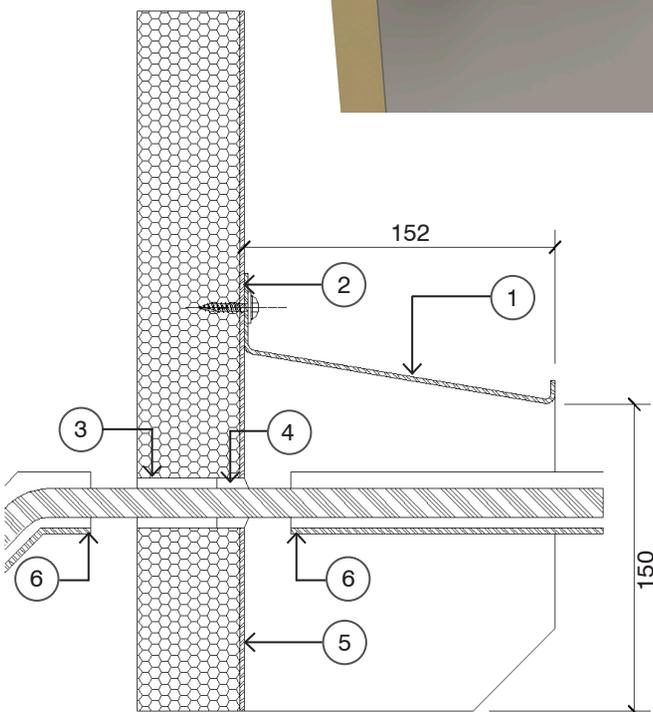
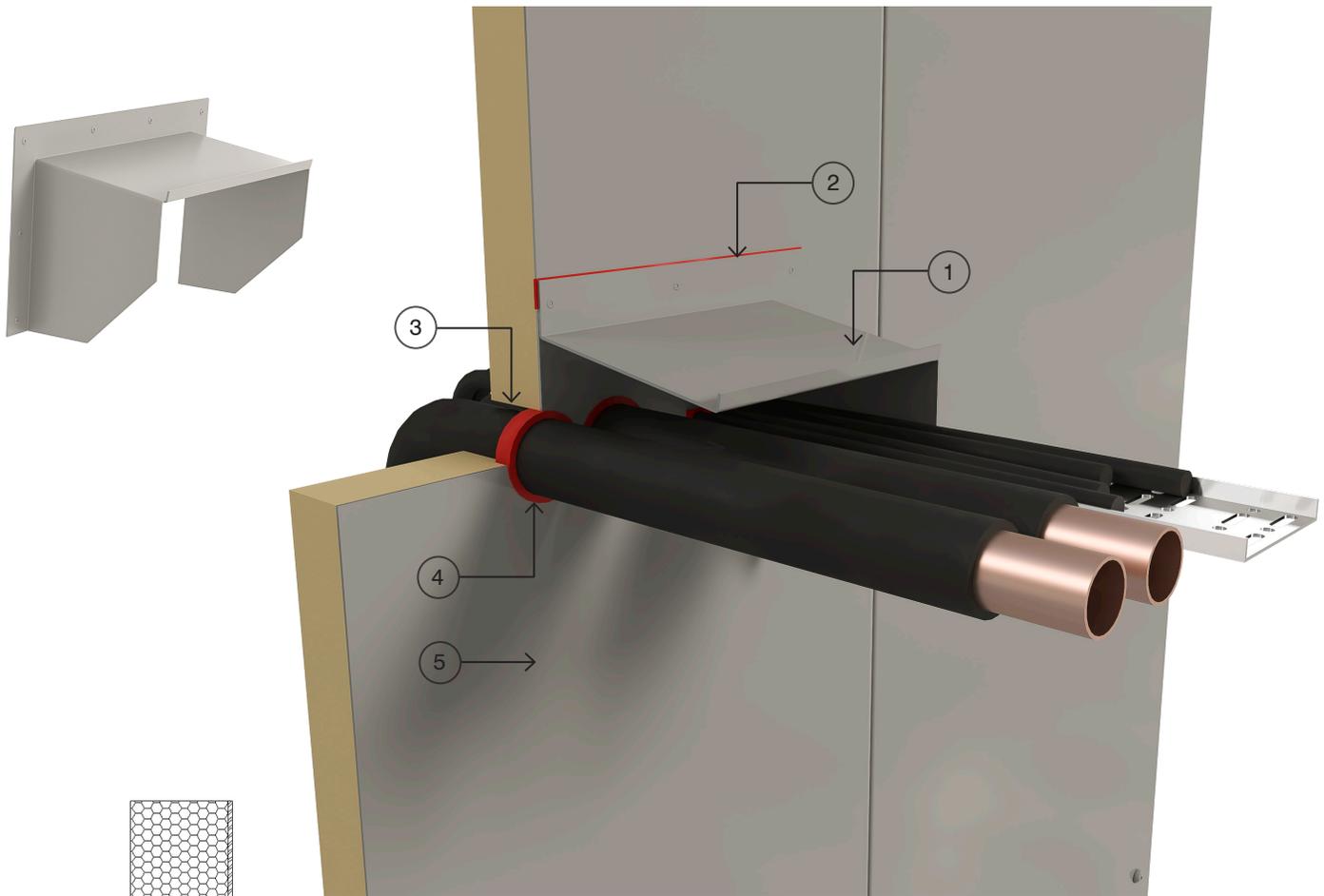


Ventilation Louvre



Access hatch

# Roofbox Weathering hood



### Image and section annotations

- 1 Weathering hood
- 2 Mastic seal to panel
- 3 Panel cut to 5mm tolerance around service penetration
- 4 Mastic seal to service penetrations
- 5 Roofbox panel
- 6 Cable tray stops at cabinet

The Roofbox weathering hoods are available in different widths to facilitate the weathering of multiple services where they pass through the side of the Roofbox cabinet. The services should be sealed to the wall of the cabinet as they pass through. The weathering hood provides added protection from driving rain. Manufactured from aluminium, the weathering hoods are normally supplied in a durable, architectural grade, powder coated to RAL 7047 but can be any RAL colour to match the Roofbox colour chosen.

### To specify

Roofbox weathering hood 300mm wide	Code H30
Roofbox weathering hood 400 mm wide	Code H40
Roofbox weathering hood 700 mm wide	Code H70
Roofbox weathering hood 900 mm wide	Code H90

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH.  
Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

# Roofbox Universal flashing system

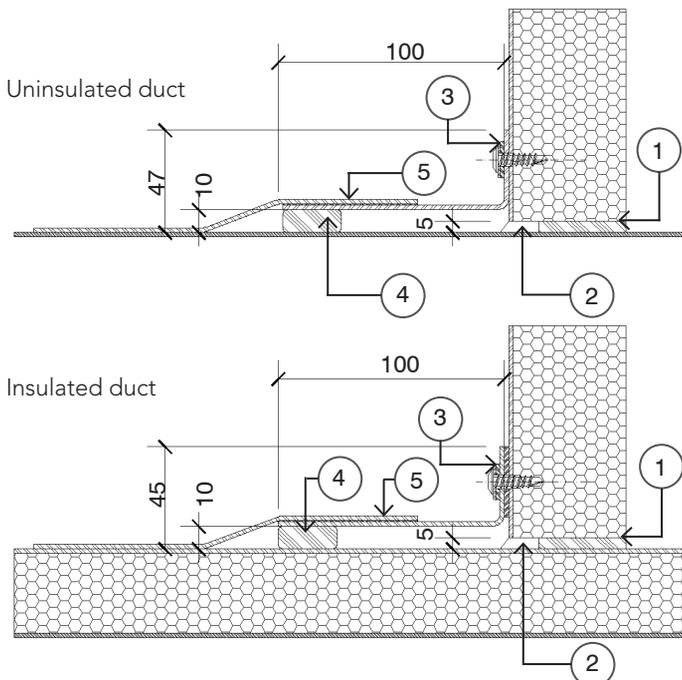
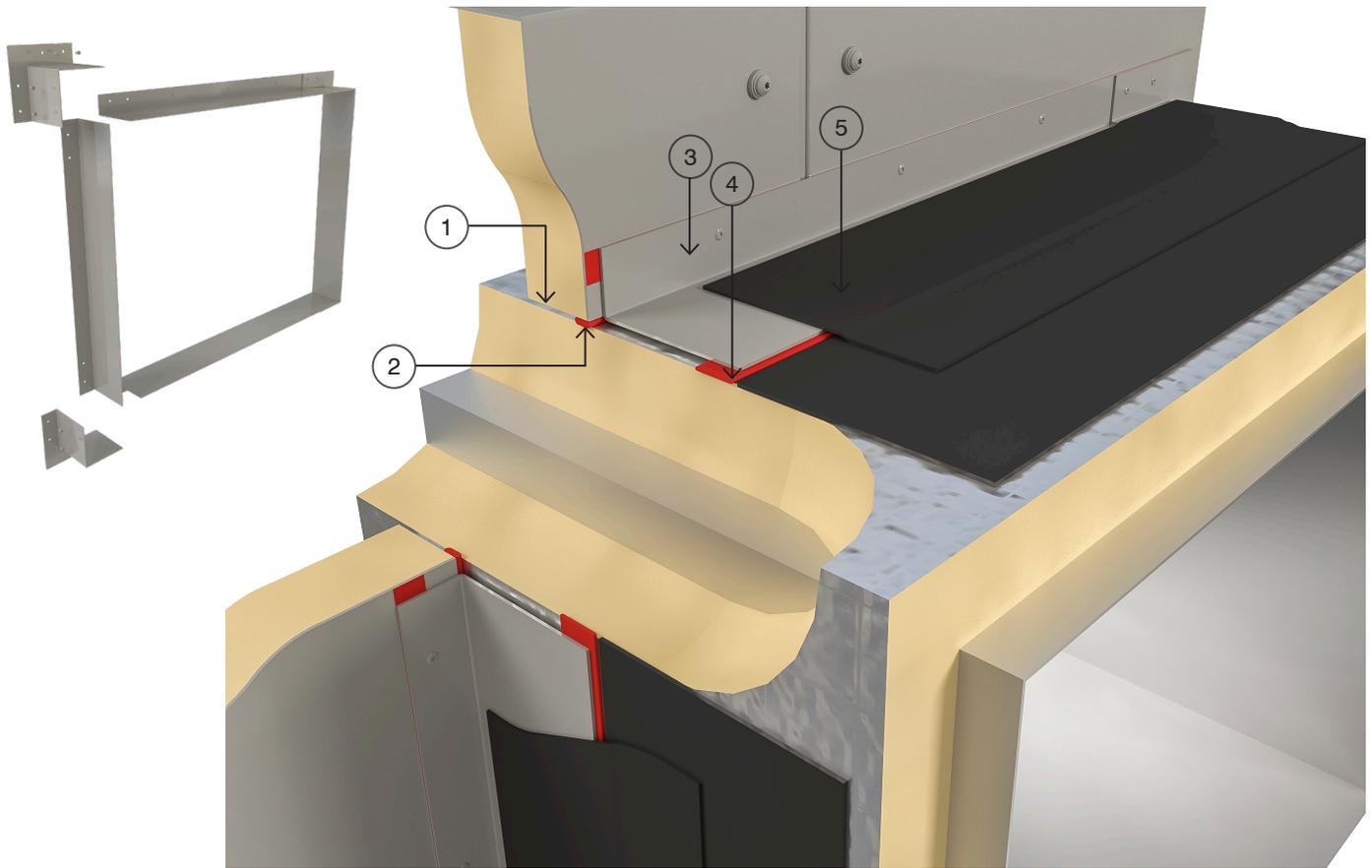


Image and section annotations

- 1 The Roofbox panel is cut neatly around the duct penetration including any insulation
- 2 A mastic seal is applied to the joint between the duct and the Roofbox panel
- 3 The Universal flashings are fixed to the cabinet with colour matched, self tapping screws and a mastic seal to the panel
- 4 A further mastic seal is provided between the flashing and the ductwork
- 5 A flexible flashing is used to seal the ductwork to the duct spigot flashing.

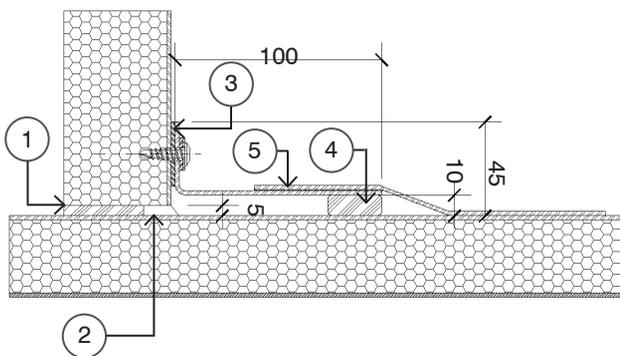
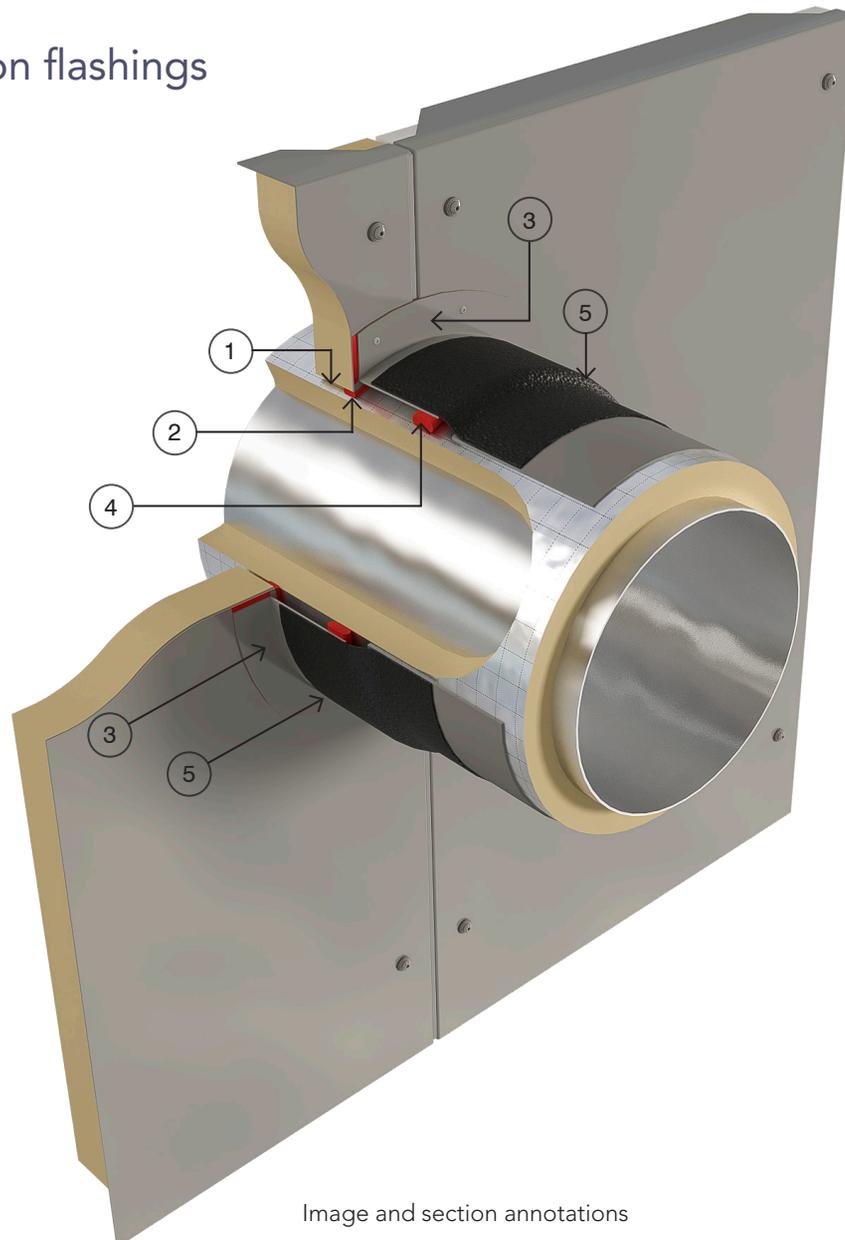
The Roofbox Universal Flashing System can be used to weather square and rectangular ducts. It comprises of corner pieces and straight lengths which can be cut or added to, to create the right sized flashing. The five step process shown above, will ensure that duct penetrations will remain weatherproof for years to come.

**To specify**

Roofbox Universal Flashing System Corner piece	Code UFC
Roofbox Universal Flashing straight length 700mm	Code UFS700
Roofbox Universal Flashing straight length 1200mm	Code UFS1200

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH.  
Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox round penetration flashings



### Image and section annotations

- 1 The Roofbox panel is cut neatly around the duct penetration including any insulation
- 2 A mastic seal is applied to the joint between the duct and the Roofbox panel
- 3 The circular flashings are fixed to the cabinet with colour matched self tapping screws and a mastic seal to the panel
- 4 A further mastic seal is provided between the flashing and the ductwork
- 5 A flexible flashing is used to seal the ductwork to the duct spigot flashing.

The Roofbox flashings for round ducts are manufactured to the required diameter and can be supplied as complete flashings for inserting the ductwork through or as split flashings for fitting to the ductwork once in position. The five step process shown above, will ensure that duct penetrations will remain weatherproof for years to come

### To specify

Roofbox circular flashing to suit \_\_\_\_\_ mm OD insulated/uninsulated duct including 10mm all round tolerance.

Order code  
RF\_mm

Roofbox split circular flashing to suit \_\_\_\_\_ mm OD insulated/uninsulated duct including 10mm all round tolerance.

Order code  
RFS\_mm

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH.  
Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox Ventilation Louvre



Ventilation louvres can be ordered in various sizes for standard or bespoke Roofbox cabinets, to provide ventilation or as intake and extract terminations. The louvre grilles are manufactured from aluminium and can be supplied with either bird or insect screens. They are supplied in a durable powder coated finish, available in any standard RAL colour.

## Roofbox Access hatch



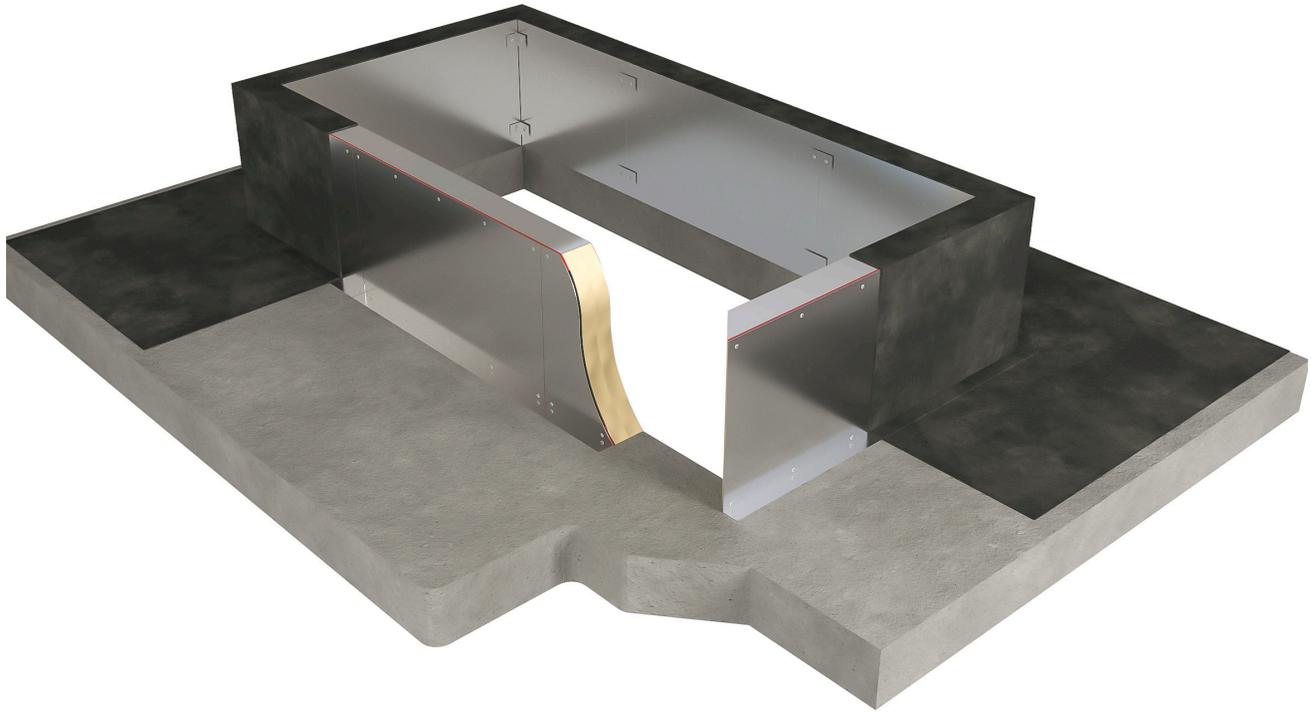
Access panels in various sizes can be supplied for fitting into the side of the Roofbox. These panels allow simple access into the Roofbox cabinet for future maintenance and inspection purposes. They are supplied in a durable powder coated finish, available in any standard RAL colour.



# ROOFBOX K kerb upstands

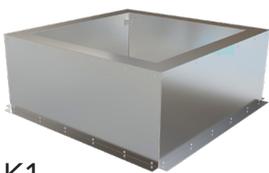
**Project:** : Southend University Hospital  
**Client:** NHS  
**Architect:** LSI Architects  
**Main Contractor:** Forest gate Construction  
**Product:** Roofbox M on Roofbox K kerb

Roofbox K



The Roofbox K modular kerb system has been developed to provide a simple and fast solution to achieving a kerb upstand around a roof opening or riser. The modular parts are manufactured off-site to standard or bespoke sizes and can be fitted as soon as the roof opening is formed. The modular 'bolt-together' solution removes the requirement for on-site formwork and other labour involved in producing kerb upstands.

Available in any height up to 600mm, the aluminium sandwich construction includes 100mm PIR insulation and has a thermal break element for increased efficiency. The standard K kerbs are designed to be compatible with the Roofbox M1-M6 cabinets.



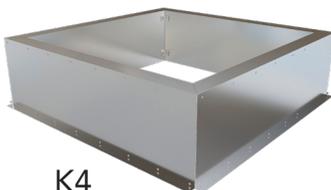
K1



K2



K3



K4



K5



K6

The Roofbox K modular kerb system is designed to be compatible with the Roofbox M cabinets. It is supplied as components which bolt together on-site. It is available in four different heights each with 100mm insulation and thermal breaks for improved efficiency.

## Roofbox K1



### Roofbox K1 dimensions

Roof opening size	1000 x 1000
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1230 x 1230
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K1 insulated kerb with thermal break to suit Roofbox M1. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K1-200, K1-375, K1-450, K1-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox K2



### Roofbox K2 dimensions

Roof opening size	1000 x 1500
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1230 x 1730
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K2 insulated kerb with thermal break to suit Roofbox M2. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K2-200, K2-375, K2-450, K2-600

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## Roofbox K3



### Roofbox K3 dimensions

Roof opening size	1000 x 2000
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1230 x 2230
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K3 insulated kerb with thermal break to suit Roofbox M3. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K3-200, K3-375, K3-450, K3-600

Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH. Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

The Roofbox K modular kerb system is designed to be compatible with the Roofbox M cabinets. It is supplied as components which bolt together on-site. It is available in four different heights each with 100mm insulation and thermal breaks for improved efficiency.

## Roofbox K4



### Roofbox K4 dimensions

Roof opening size	1500 x 1500
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1730 X 1730
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K4 insulated kerb with thermal break to suit Roofbox M4. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K4-200, K4-375, K4-450, K4-600

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Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox K5



### Roofbox K5 dimensions

Roof opening size	1500 x 3000
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1730 x 3230
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K5 insulated kerb with thermal break to suit Roofbox M5. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K5-200, K5-375, K5-450, K5-600

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Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

## Roofbox K6



### Roofbox K6 dimensions

Roof opening size	1500 x 4500
Kerb thickness	115
Insulation thickness	100
Outer kerb dimensions	1230 x 2230
Available kerb heights	200, 375, 450, 600

**To specify:** Nicholson Roofbox K6 insulated kerb with thermal break to suit Roofbox M6. 200mm, 375mm, 450mm, 600mm high. Order codes Roofbox Kerb K6-200, K6-375, K6-450, K6-600

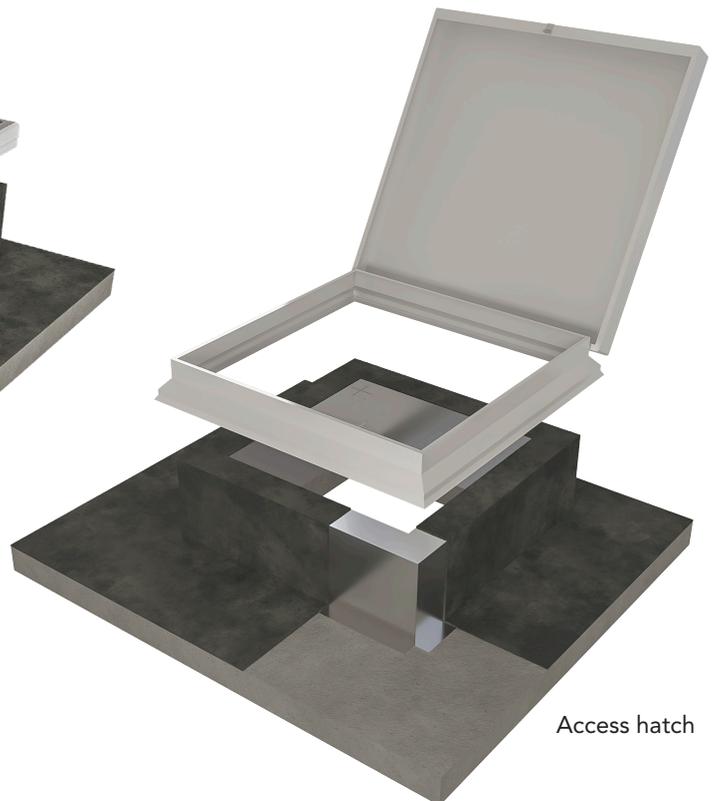
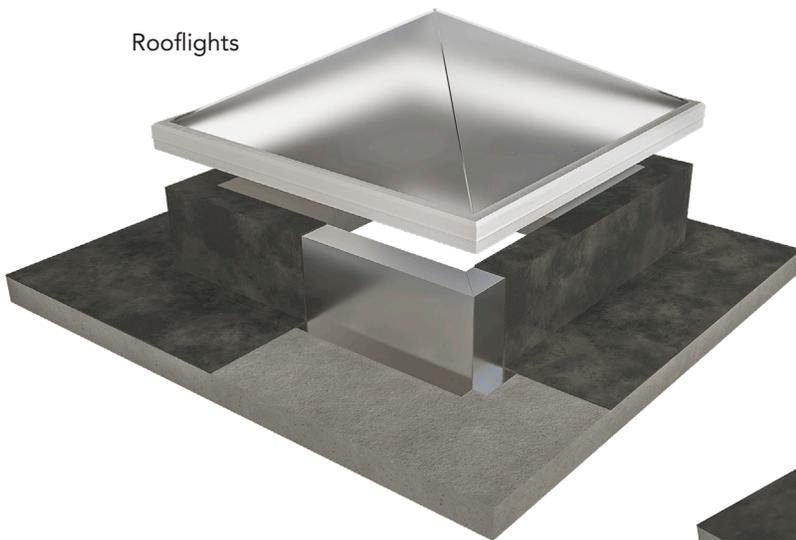
Supplied by Nicholson, Unit 13 Wireless Station Park, SG8 5JH.  
Tel: 01763 295828 [www.nicholsonsts.com](http://www.nicholsonsts.com)

Roofbox K  
typical uses



Orangeries lantern lights

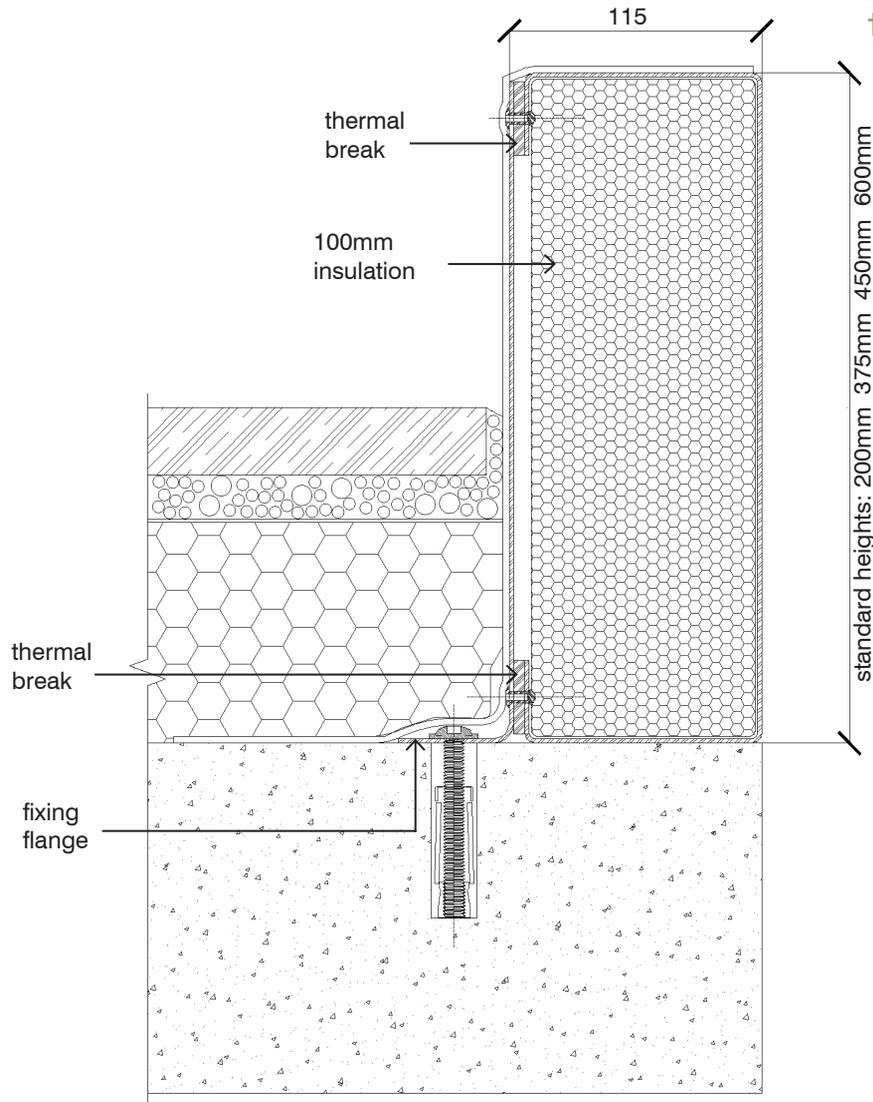
Rooflights



Access hatch

The Roofbox K modular kerb system can be used where an upstand is required around a roof opening. This includes rooflights, lantern lights and roof hatches as well as the Roofbox M range of roof cabinets. The pre-insulated kerbs are available in standard or bespoke configurations and offer savings in on-site time especially where they replace cast concrete kerbs.

Roofbox K  
typical section



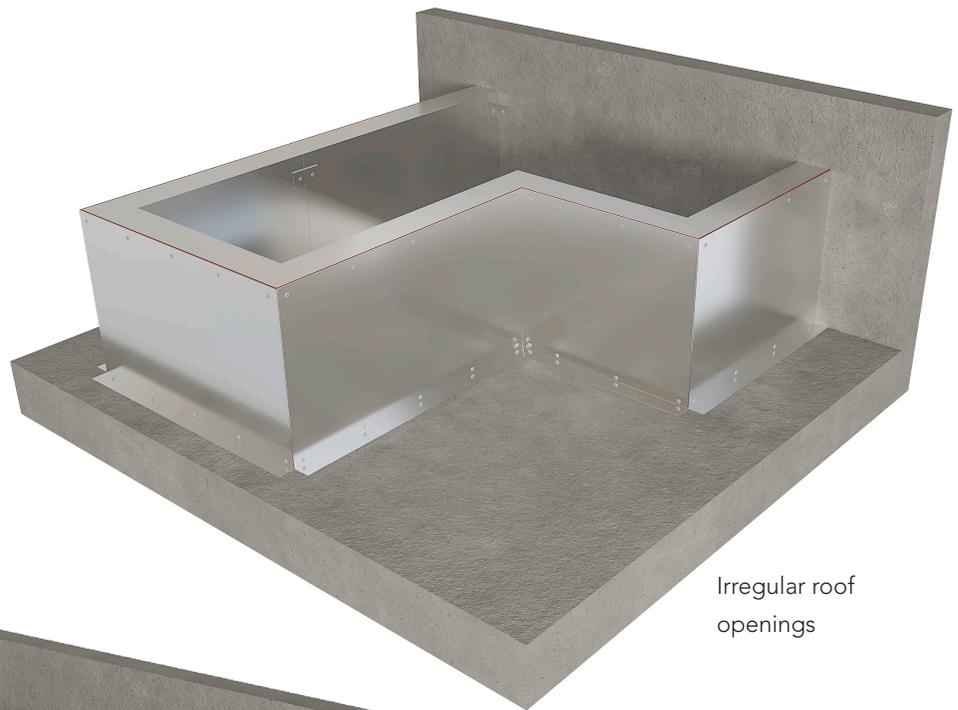
**Roofbox K material kerb specification**

Materials	2.0mm 5251 grade aluminium		Typical loading capacities	Max Load (kN/m)
Section bolting	A2 Stainless steel M10 bolts, nuts and washers		200mm High K-Series Kerb	5.0
Thermal break	5mm x 25mm HDPE Strip		375mm High K-Series Kerb	2.1
Insulation	100mm foil faced PIR insulation 0.022 W/mk. Fire performance: Class 1 (BS 476, Part 7), Euroclass F (BS EN 13501-1) Further insulation options are available to provide enhanced U values and fire ratings. Please contact our technical department for further information.		450mm High K-Series Kerb	1.7
			600mm High K-Series Kerb	1.1
			Dimensions	
	Upstand width	115mm		
	Stand height	200mm, 375mm, 450mm, 600mm		
	Fixing flange	50mm		

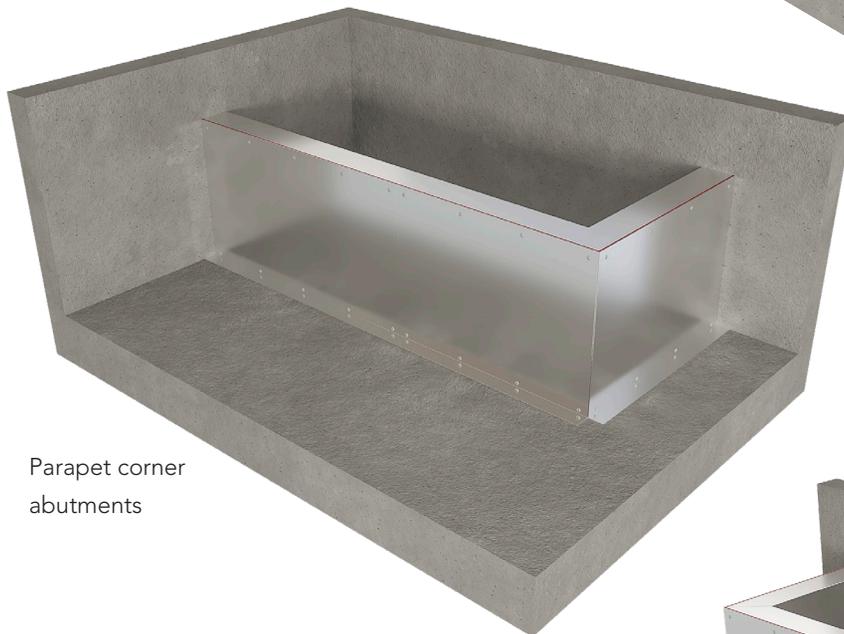
Note: Within these calculations is a maximum permissible lateral deflection of 0.5% of the kerb height (i.e. section height divided by 200). These calculated loadings relate to general situations within the UK. Increased load capacity may be possible by analysis of a particular situation

Note: Structural openings must be made safe once installation is complete to prevent danger of falls from height.

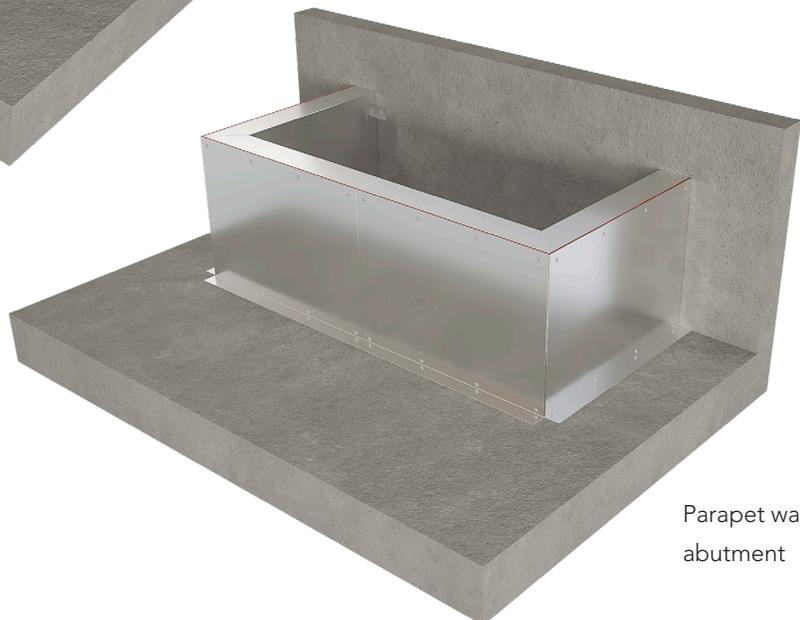
Roofbox K  
Bespoke



Irregular roof openings



Parapet corner abutments



Parapet wall abutment

The Roofbox K modular kerb system can be configured to match existing roof openings that are not covered by the standard range of kerbs. They can also be manufactured in any height up to 600mm. Working drawings will be prepared from dimensions provided or a site survey where appropriate.



**Project:** Royal Albert Dock London - Phase 1  
**Client:** ABP  
**Architect:** Farrells  
**Contractor:** Multiplex Construction Europe  
**Product:** Roofbox M Bespoke



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