

Product Catalogue 2025





Everything you need to know about Freefoam

Freefoam's range includes fascia, soffit, rainwater, cladding, internal panelling and skirting products designed for and supplied to the building industry in Ireland, the UK & Mainland Europe and backed by an industry leading Lifetime Guarantee. Whether you are:

- An Architect looking for a contemporary palette
- A Specifier or Developer requiring sustainable products
- A PVC Stockist looking to grow your business
- An Installer seeking high quality, easy-to-fit roofline products
- A Homeowner who wants peace of mind and a low maintenance home improvement solution







Contents

Guarantee	4 - !
Fascia	6 - 9
Colormax Colour Range	10
Soffit	11 - 12
Roofline Accessories	13 - 14
Colour Visualiser	15
Window Boards and Trims	16 - 17
Skirting and Door Surround	18
Plastops	19
Cladding	20 - 26
Rainwater Systems	27 - 32
Geopanel® Internal Panelling	33 - 35
How to become a Freefoam Registered Installer	36
Installation Guide	37 - 44
Roofline and Cladding Maintenance	45
Freefoam, the Colour Specialist	46
Notes	47



Industry leading guarantees

Freefoam has made a life-long company commitment to make and guarantee long life products through refining technical and manufacturing resources and the cumulative experience of product performance over many years.



50 Year Lifetime Extended Guarantee

Freefoam offers an extended 50 year Lifetime transferable guarantee on all white profiles in addition to the standard 20 year guarantee. The extended guarantee is available on roofline, cladding and rainwater installation projects, where only the Freefoam brand is used and fitted, and registered online by a Freefoam Registered Installer.

20 Year Standard Guarantee

All white Freefoam products are automatically covered by its standard 20 year guarantee. Products are guaranteed not to warp, crack, discolour or blister and provide resistance to air pollution. This level of protection can simply be extended to the industry leading Lifetime Guarantee.





10 Year Guarantee

Colour

The Freefoam colour range of fascia, soffit, cladding and rainwater products is eligible for a 10 Year Guarantee unique in the roofline industry. Backed by Freefoam's own innovative Colormax®.

Woodgrain

The Freefoam woodgrain range of fascia, soffit and cladding is eligible for a 10 Year Guarantee. Manufactured with market leading Renolit EXOFOL MX foil with Solar Shield technology (SST) which offers built-in sun reflection that reduces heat absorption, thus minimising profile temperature and expansion.

Fully transferable

The Freefoam guarantee doesn't end when a property changes hands. It can be transferred to the new owners and subsequent owners so they can continue to enjoy the same peace of mind. Some guarantees only cover domestic properties, but the Freefoam guarantee can also be used by landlords and specifiers from Local Authorities, Housing Associations and commercial projects.



See our full colour range

Unfold our handy colour swatch page at the back of this catalogue



Fascia

A comprehensive range of fascia manufactured to last.

- Available in four styles: Square Leg, Bullnose, Ogee and Flat in a wide range of widths
- Fascia available 10mm Reveal Liner or 16mm, 18mm Full Replacement
- A wide range of colours featuring Freefoam patented Colormax® technology
- Woodgrain finishes produced using marketing leading Renolit Exofol with built in Solar Shield Technology



Square L	cia		n													odgrain		
•				VV	/hit	е		•	Colc	our		VVC	_	grair			Matt	
						핌	ГВ	PG	SAB	00 0	WGO	WGB	WGI	WGAG	WGCR	WGATE	WGSMAG	WGSMBL
	Code	Description	Unit	Units per pack	White	Black	Leather Brown	Pale Gold	Sable Storm Grev	Dark Grey	Light Oak	Black Ash Bosewood	Irish Oak	Anthracite Grey Chartwell Green	Cream	Agate Grey	Matt Anthracite Grey	Matt Black
		I			1-						1				Ė		12	_
		Leg Fascia / Reveal Liner 10mm																
	FW100	100mm Square Leg Fascia	5m	4	•													
	FW125	125mm Square Leg Fascia	5m	2	•													
	FW150	150mm Square Leg Fascia	5m	2	•						•	• •	•	• •	•	• •	•	•
	FW175	175mm Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•	• •	•	• •	•	• •	•	•
	FW200	200mm Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•	• •	•	• •	•	• •	1	
	FW225	225mm Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•	• •	•	• •	•	• •	•	•
	FW250	250mm Square Leg Fascia	5m	2	•						•	• •	•	• •	•	• •	•	•
	FW300	300mm Square Leg Fascia	5m	2	•						•	• •	•	• •	•	• •	,	
	FW400	400mm Square Leg Fascia	5m	2	•						•	• •	•	• •	•	• •	•	•
	F410P	410mm Double Ended Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•							
	FW450	450mm Square Leg Fascia	5m	2	•													
	F605P	605mm Double Ended Square Leg Fascia	5m	1	•	•	•	•	• •	•	,							
		Square Leg Fascia 18mm																
	FMS150	150mm Magnum Square Leg Fascia	5m	2	•	•	•	•	• •	•	•	• •	•	•		•	•	•
	FMS175	175mm Magnum Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•	• •	•	• •	•	• •	•	•
	FMS200	200mm Magnum Square Leg Fascia	5m	2	•	•	•	•	• •	•	•	• •	•	• •	•	• •	•	•
	FMS225	225mm Magnum Square Leg Fascia	5m	2	•	•	•	•	• •	• •	•	• •	•	• •	•	• •	•	•
	FMS250	250mm Magnum Square Leg Fascia	5m	2	•	•	•	•	• •	•	•	• •	•	• •	•	• •	•	•
	FMS300	300mm Magnum Square Leg Fascia	5m	2	•	•				• •	•	• •	•	• •	•	• •	•	•
	FMS400	400mm Magnum Square Leg Fascia	5m	1							•	• •	•	• •	•	• •	•	•
	FMS410	410mm Double Ended Magnum Square Leg Fascia	5m	1	•	•	•	•	• •	• •	•							
	FMS410.125	410mm Double Ended Magnum Square Leg Fascia	1.25m	2	•	•			•	• •	•							
	FW/FM	S / FMXS - Accessories																
	FWJ		Diego	10					•									
		300mm Square Joint	Piece		•	•	•	•	• •			• •	•	•	•			_
	FWX	300mm 90° Square External Corner	Piece	10	•	•	•	•	•	•	•	••	•	•	•	. •	•	•
	FWJJ	600mm Square Double Joint	Piece	10	•	•	•	•	• •	•	•	• •	•	• •	•	• •	•	•
Caa maga 13	FWXX	600mm Square Double Corner	Piece	10	•	•	•	•	• •	•	•	• •	•	• •	•	• •	•	•
See page 13	FWXI	300mm 90° Square Internal Corner	Piece	10	•	•	•	•	• •	•	•	• •	•	• •	•	• •	•	•
for diagrams	FWFX	135° Square External Corner	Piece	10	•	•	•			•	•	• •	•	• •	•			
	FWFXI	135° Square Internal Corner	Piece	10	•	•	•				•	• •	•	• •	•			
	FWEC	100mm End Cap	Piece (L&R)	10	•		•											
	FWDC	300mm Large End Cap	Piece	10	•	•	•	•	• •	•	•	• •	•	• •	•	•	•	•

[•] Some colour products are subject to a lead time. Ask your stockist for details

Ogee an	d Bu	ıllnose Fascia		w	/hi	te
	Code	Description	Unit	Units per pack	White	
	Ogee Fa	scia - 10mm				
	FO100	100mm Ogee Cover Fascia	5m	4	•	
	FO150	150mm Ogee Cover Fascia	5m	2	•	
	FO175	175mm Ogee Cover Fascia	5m	2	•	
	FO200	200mm Ogee Cover Fascia	5m	2	•	
	FO225 FO250	225mm Ogee Cover Fascia 250mm Ogee Cover Fascia	5m 5m	2	•	
	FO300	300mm Ogee Cover Fascia	5m	2	•	
	FO390	390mm Ogee Cover Fascia	5m	2	•	
	1 0000	osonim ogce oover i asola	OIII	-	-	
	Magnum	n Ogee Fascia - 18mm				
	FMO150	150mm Magnum Ogee	5m	2	•	
	FMO175	175mm Magnum Ogee	5m	2	•	
	FMO200	200mm Magnum Ogee	5m	2	•	
	FMO225	225mm Magnum Ogee	5m	2	•	
	FMO250	250mm Magnum Ogee	5m	2	•	
	FMO405	405mm Double Ended Magnum Ogee	5m	1	•	
	EO / EM	O. A				
	FO / FIMI	O - Accessories				
	FO.1	0 111	D:	40	_	
	FOJ	Ogee Joint	Piece	10	•	
	FOX	Ogee Corner	Piece	10	•	
	FOX FOJJ	Ogee Corner 600mm Ogee Double Joint	Piece Piece	10 10	•	
See page 13	FOX FOJJ FOXX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner	Piece Piece Piece	10 10 10	•	
See page 13	FOX FOJJ	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner	Piece Piece	10 10	•	
See page 13 for diagrams	FOX FOJJ FOXX FOXI	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner	Piece Piece Piece Piece	10 10 10 10	•	
, .	FOX FOJJ FOXX FOXI FOB	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner	Piece Piece Piece Piece Piece	10 10 10 10 10	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner	Piece Piece Piece Piece Piece Piece	10 10 10 10 10 10	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner	Piece Piece Piece Piece Piece Piece Piece Piece Piece	10 10 10 10 10 10	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm)	Piece	10 10 10 10 10 10 10	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm	Piece	10 10 10 10 10 10 10 11 1	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 1 1	• • • • • • • •	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FOBOX FOBOX Magnun FMR150 FMR175	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia	Piece Piecs Piece	10 10 10 10 10 10 10 11 1 1	•	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX Magnun FMR150 FMR175 FMR200	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1	• • • • • • • • • • • • • • • • • • • •	
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX Magnun FMR150 FMR150 FMR200 FMR225	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1	• • • • • • • • • • • • • • • • • • • •	
, -	FOX FOJJ FOXX FOXI FOBOX FOFXI FOFXI FBOX FOBOX Magnun FMR150 FMR175 FMR200 FMR255	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) 1 Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1		
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX Magnun FMR150 FMR150 FMR200 FMR225	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1	• • • • • • • • • • • • • • • • • • • •	
, -	FOX FOJJ FOXX FOXI FOB FOPX FOFXI FBOX FOBOX Magnum FMR150 FMR250 FMR255 FMR250 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1		
, -	FOX FOJJ FOXX FOXI FOB FOPX FOFXI FBOX FOBOX Magnum FMR150 FMR250 FMR255 FMR250 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1		
, -	FOX FOJJ FOXX FOXI FOB FOFX FOFXI FBOX FOBOX Magnun FMR150 FMR175 FMR200 FMR225 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) 1 Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 260mm Magnum Bullnose Fascia	Piece	10 10 10 10 10 10 11 1 1 2 2 2 2 2 1		
, -	FOX FOJJ FOXX FOXI FOR FOFX FOFXI FOBOX FOBOX Magnun FMR150 FMR150 FMR250 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) 1 Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 405mm Double Ended Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1		
, -	FOX FOJJ FOXX FOXI FOR FOFX FOFX FOFXI FBOX FOBOX Magnum FMR150 FMR175 FMR200 FMR225 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° Internal Ogee Corner 0gee Moulded Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) 1 Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 2405mm Double Ended Bullnose Fascia	Piece	10 10 10 10 10 10 11 1 1 2 2 2 2 2 1	• • • • • • • • • • • • • • • • • • • •	
for diagrams	FOX FOJJ FOXX FOXI FOFX FOFX FOFXI FBOX FOBOX Magnum FMR150 FMR250 FMR250 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 2250mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 600mm Double Ended Bullnose Fascia	Piece	10 10 10 10 10 10 10 11 1 1 2 2 2 2 2 1	• • • • • • • • • • • • • • • • • • • •	
for diagrams See page 13	FOX FOJJ FOXX FOXI FOB FOPX FOFXI FBOX FOBOX Magnum FMR150 FMR250 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 200mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 600mm Bullnose Double Joint 600mm Bullnose Double Joint 600mm Bullnose Double Corner Bullnose Internal Corner 135° Bullnose External Corner	Piece	10 10 10 10 10 10 10 11 1 1 2 2 2 2 2 2	• • • • • • • • • • • • • • • • • • • •	
for diagrams See page 13	FOX FOJJ FOXX FOXI FOFX FOFX FOFXI FBOX FOBOX Magnum FMR150 FMR250 FMR250 FMR250 FMR405 FMR405	Ogee Corner 600mm Ogee Double Joint 600mm Ogee Double Joint 600mm Ogee Double Corner Ogee Internal Corner 125° External Ogee Corner 135° External Ogee Corner 135° Internal Ogee Corner Ogee Moulded Corner Ogee Gable End Box (600 x 390mm) Bullnose Fascia - 18mm 150mm Magnum Bullnose Fascia 175mm Magnum Bullnose Fascia 225mm Magnum Bullnose Fascia 2250mm Magnum Bullnose Fascia 250mm Magnum Bullnose Fascia 600mm Double Ended Bullnose Fascia	Piece	10 10 10 10 10 10 11 1 1 2 2 2 2 2 2 1		

Flat Fase	cia					
i ide i do	0.0			Whi	ite Colour	Woodgrain
					BL LB SAB SG DG	WGO WGB WGR
	Code	Description	Unit	Units per pack	Paritics Leather Brown Pale Gold Sable Storm Grey Dark Grey	Light Oak Black Ash Rosewood Anthracite Grey
	Magnun	n Flat Fascia - 16mm				
	FMF100	100mm Magnum Flat Fascia	5m	2 •)	
	FMF125	125mm Magnum Flat Fascia	5m	2 •		
	FMF150	150mm Magnum Flat Fascia	5m	2 •)	
	FMF175	175mm Magnum Flat Fascia	5m	2 •		
	FMF200	200mm Magnum Flat Fascia	5m	2 •)	
	FMF250	250mm Magnum Flat Fascia	5m	2 •)	
	FMF300	300mm Magnum Flat Fascia	5m	2 •)	
	FFMJJ	600mm Double Ended Flat Fascia Joiner	Piece	10 •)	
	FFMXX	600mm Double Ended Flat Fascia Corner	Piece	10 •		
	Tudor B	oard - 25mm				
	FMXT145	Tudor Board	5m	2		• • • •

Decorative Roofline

	Decorati	ve Roofline Accessories & Boards					
h	FM01	Ogee Décor Mould	Piece	1	•	• •	
	FM02	Plain Mould (Open)	Piece	1	•		
	FM03	Plain Mould (Closed)	Piece	1	•		
	FM04	Scalloped Fascia Convex 18mm thick	5m	2	•		
	FM05	Scalloped Fascia Concave 18mm thick	5m	2	•		
	LINIOS	Scalloped Fascia Coricave Torritt trick	3111	2	•		

Spires /	Finials					
FIN_1	Finial	Piece	10	•		
FIN_1	Finial	Piece	1		• • • • • •	• • • •

[•] Some colour products are subject to a lead time. Ask your stockist for details



Colormax Colour range



Fascia, Soffit, Window Boards and Trims



Woodgrain range

Fascia, Soffit, Window Boards, Trims and Cladding*



Notes:

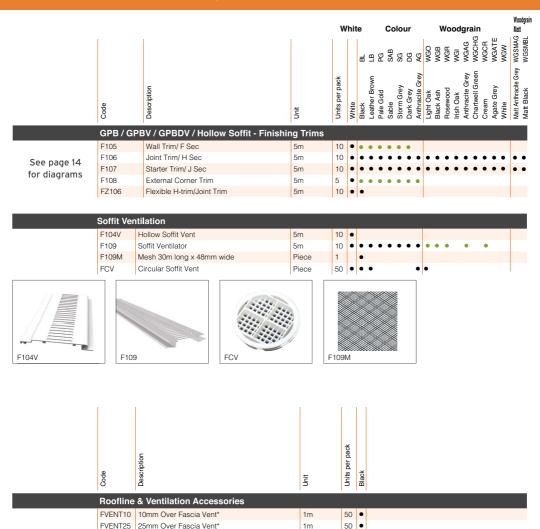
- 1. Colours shown are for availability identification only. Please see colour swatch or product samples for exact colour representations.
- 2. Please note that the nearest Ral numbers above are provided for reference purposes only and do not guarantee a precise match. It is recommended that actual Freefoam product samples be used for comparison purposes.
- 3. Please contact Freefoam or see our Technical & Specification Manual for nearest Pantone and NCS reference numbers.

Soffit and Hollow Soffit

	Woodgrain
White Colour Wood	
B B L L I B S S G S S G S S G W W G O	WGI WGAG WGCHG WGCR WGCR WGATE WGW
Code Code Unit per pack White per pack Back Leather Brown Pace Gold Stom Grey Dark Grey Anthractie Grey Light Oak Black Asah Flosswood	rrish Oak Anthracite Grey Chartwell Green Cream Agate Grey White Matt Anthracite Grey Matt Black
General Purpose Board - 10mm	
GPB100 100mm General Purpose Board 5m 4	
GPB100	•
GPB150	
GPB200 200mm General Purpose Board 5m 2 • • • • • • • •	
GPB225 225mm General Purpose Board 5m 2 • • • • • • •	
GPB250 250mm General Purpose Board 5m 2 • • • • • • •	
GPB300 300mm General Purpose Board 5m 2 • • • • • • •	
GPB350 350mm General Purpose Board 5m 2	
GPB405 405mm General Purpose Board 5m 2 • • • • • • • • • •	
GPB450 450mm General Purpose Board 5m 2	
GPB500 500mm General Purpose Board 5m 2	
GPB605 600mm General Purpose Board 5m 1 • • • • • • • • • •	
Gr Boos Coomin General Pulpose Board Sin 1 0 0 0 0 0 0 0 0 0	•
Vented General Purpose Board - 10mm	
GPBV100 100mm Vented 5m 4 ◆	
GPBV150 150mm Vented 5m 2 • • • •	•
GPBV175 175mm Vented 5m 2 • • • •	•
GPBV200 200mm Vented 5m 2 ●	
GPBV225 225mm Vented 5m 2 • • • •	•
GPBV250 250mm Vented 5m 2 ●	
GPBV300 300mm Vented 5m 2 • • • • • • • • • • • • • • • • • •	•
GPBV350 350mm Vented 5m 2 ●	
GPBV405 405mm Vented 5m 2 • • • •	•
GPBV450 450mm Vented 5m 2 ●	
GPBV500 500mm Vented 5m 2 ●	
GPBV605 600mm Vented 5m 1 •	•
Double Vented General Purpose Board - 10mm	
GPBDV225 225mm Double Vented 5m 2 •	
GPBDV300 300mm Double Vented 5m 2 •	
GPBDV350 350mm Double Vented 5m 2 ●	
GPBDV450 450mm Double Vented 5m 2 •	
GPBDV605 605mm Double Vented 5m 2 ●	
Hollow Soffit - 10mm	
F104 100mm Hollow Soffit 5m 10 ● ● ●	
F312 300mm Hollow Soffit 5m 4 ●	
F112 300mm Hollow Soffit 5m 4 • • • • • • •	

[•] Some colour products are subject to a lead time. Ask your stockist for details

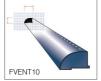
Soffit Trims, Ventilation & Eaves Protection





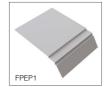
FPEP1

FPBC1



Eaves Protector*

Bird Comb*





10 •

50 •

1m

1m

Some colour products are subject to a lead time. Ask your stockist for details
 Hollow Soffit, F112 or F312, should not be used as an external wall cladding.

Roofline & Window Accessories

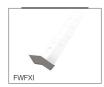
Square Leg Fascia Accessories (FW, FMS, FMXS) - from page 7















Ogee Fascia Accessories (FO, FMO) - from page 8

















Magnum Fascia Accessories (FMR & FMF) - from pages 8 & 9















Roofline & Window Accessories

Soffit Accessories (GPB, GPBV, GPBDV) - from page 12











Window Trims - from page 17















Rigid & Flexi Angles - from page 17















Skirting and Door Surround - from page 18











Windowboards, Architraves, Angles and Trims

High quality window boards, trims and accessories including end caps, architraves and angles available in a wide range of designs, sizes, colours and woodgrain finishes to match any window installation.

Window Boards and Trims

																			Woodgrain
				W	/hit	е	Co	lour		W	ood	graiı						- 1	Matt
					П		_			0 m	o ec	WGI	WGCHG	WGCH	WGW WGMDG	WGSLG	WGSA	WGPEG	WGSMAG
						H H	SAE	SG	AG	WGO	WGB	WG.	N S	S & &	WGW	N S	§ §	W.G	Š Š
				~		_			éÀ			8	e e		≥			,	Grey
		ro		Units per pack		Black Leather Brown	Б	e,	Anthracite Grey	2 2	_ D	Irish Oak Anthracite Grev	Chartwell Green	,ey	White Moondust Grev	<u>~</u>	Φ	irey	Matt Anthracite Grey Matt Black
	Φ	Description		s per	e	y er	Pale Gold Sable	Storm Grey	racit	Light Oak	Black Asri Rosewood	Irish Oak Anthracite	rtwe	Cream Agate Grey	te ndus	Slate Grey	sage Claystone	Pebble Grey	Matt Anthrac Matt Black
	Code	Des	it C	L	White	Black	Pale G Sable	Stor	Ant	Ligh	Ros	Irish Ant	Cha	Cream Agate (White Moond	Slat	sage Clayst	Peb	Matt
	Window	Boards - 10mm																	
	FB150	150mm Bullnose Window Board	5m	2	•														
	FB175	175mm Bullnose Window Board	5m	2	•														
	FB200	200mm Bullnose Window Board	5m	2	•														
	FB225	225mm Bullnose Window Board	5m	2	•														
	FB250	250mm Bullnose Window Board	5m	2	•														
	FB455	455mm Bullnose Window Board (Double Ended)	5m	2	•														
	FBDC	Large End Cap	Piece	50	•														
	FBEC	End Cap for FB Board	Pair (L&R)	50	•														
	ILPEC	Lifu Cap for 1 B Board	raii (Lan)	30	1-1														
	Architra	ves - 6mm																	
	FA45	40mm Architrave	5m	20	•				•										
	FA45	40mm Architrave	5m	10						• •	•		•	• •	• •	•	• •	•	• •
	FA65	60mm Architrave	5m	10	•				•	• •	•		•	• •	• •	•	• •	•	• •
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	FA90	90mm Architrave	5m	10	•				•	• •	•	• •	•	• •	• •	•	• •	•	• •
	1	I			' '														
							_			_									
	Window	Trims																	
	FQ12	12mm Quadrant	5m	25	•				•										
	FQ12 FQ12		5m 5m	10	•				•	•	•	• •	•		• •	•		•	• •
See page 14	FQ12	12mm Quadrant	5m 5m		•				•	• •	•	• •	•		• •	•	•	•	• •
See page 14 for diagrams	FQ12 FQ12	12mm Quadrant 12mm Quadrant	5m	10						• •	•	• •	• •	• •	• •	•	• •	•	• •
, .	FQ12 FQ12 FQ19	12mm Quadrant 12mm Quadrant 19mm Quadrant	5m 5m	10 25						• •	•	• •	• •	• •	• •	•	• •	•	• •
, .	FQ12 FQ12 FQ19 FQ19	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant	5m 5m 5m 5m 5m	10 25 10 25 10	•					• •	• •	• •	• •	• •	• •	•	• •	•	• •
, .	FQ12 FQ12 FQ19 FQ19 FR15	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square	5m 5m 5m 5m	10 25 10 25	•				•	• •	•	• •	• •	• •	• •	•	• •	•	• •
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square	5m 5m 5m 5m 5m	10 25 10 25 10	•				•	• •	•	• •	• •	• •	• •	• •	• •	•	• •
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28 FD28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section	5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10	•				•	• •		• •		• •	• •				
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section	5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25	•				•	• •		• •	• •	• •	• •	• •	• •	• •	• •
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28 FD28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section	5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10	•				•			• •			• •	• •			• •
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28 FD28 FF20	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 20mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25	•				•			• •	• •	• • •	• •	• •	• •		
, .	FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28 FD28 FF20 FF20	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 25mm D Section 28mm D Section 20mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10	•				•			• •			• •				
, .	FQ12 FQ12 FQ19 FQ19 FR15 FR25 FR25 FD28 FD28 FF20 FF20 FF20	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 25mm D Section 28mm D Section 20mm Fillet 20mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25	•				•			• •			• •	• •			
, .	F012 F019 F019 F019 FR15 FR25 FD28 FD28 FF20 FF20 FF20 FF20 FF28 FF28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 25mm D Section 28mm D Section 20mm Fillet 20mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25	•				•			• • •			• •				•••
, .	F012 F019 F019 F019 FR15 FR25 FD28 FD28 FF20 FF20 FF20 FF20 FF28 FF28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section 20mm Fillet 28mm Fillet 28mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25	•				•			•••			• •				•••
, .	F012 F019 F019 F019 FR15 FR25 FD28 FD28 FF20 FF20 FF20 FF20 FF20 FF28 FF38	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section 20mm Fillet 28mm Fillet 28mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25 10	•				•			• • •			• • •				•••
, .	F012 F019 F019 F019 FR15 FR25 FR25 FD28 FD28 FF20 FF20 FF20 FF28 FF28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section 20mm Fillet 20mm Fillet 28mm Fillet 28mm Fillet	5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m 5m	10 25 10 25 10 5 25 10 25 10 25 10 25 10	•				•			• •			•••				
for diagrams	F012 F019 F019 F019 FR15 FR25 FR25 FD28 FD28 FF20 FF20 FF20 FF20 FF28 FF28 FF28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section 20mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet	5m 5	10 25 10 25 10 5 25 10 25 10 25 10 25 10	•				•			• •			•••				
for diagrams See page 14	F012 F019 F019 F019 F019 FR15 FR25 FR25 FD28 FD28 FF20 FF20 FF28 FF28 FF28 FF28 FF28	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 28mm D Section 28mm D Section 20mm Fillet 20mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet	5m 5	10 25 10 25 10 5 25 10 25 10 25 10 25 10	•				•			• •			•••				•••
for diagrams See page 14	F012 F019 F019 F019 FR15 FR25 FD28 FD28 FF20 FF20 FF20 FF28 Rigid & I	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 25mm D Section 28mm D Section 20mm Fillet 20mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 0 S x 50mm Flexi Angle 50 x 50mm Flexi Angle 100 x 80mm Hollow Angle 30 x 30mm Rigid Angle	5m 5	10 25 10 25 10 5 25 10 25 10 25 10 25 10 25 10	•	•			•			•••			•••				•••
for diagrams See page 14	F012 F019 F019 F019 FR15 FR25 FD28 FD28 FF20 FF20 FF20 FF28 FF28 FZ8 FZ8 FZ8 FZ8 FZ5 FZ50 FZ100 FZR30 FZR30	12mm Quadrant 12mm Quadrant 19mm Quadrant 19mm Quadrant 15mm Square 25mm Square 25mm Square 25mm D Section 20mm Fillet 20mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 28mm Fillet 00 x 80mm Flexi Angle 100 x 80mm Hollow Angle 30 x 30mm Rigid Angle	5m 5	10 25 10 5 25 10 25 10 25 10 25 10 25 10 25 10	•				•						•••				•••

^{*} Products available in the following colours to complement Woodgrain Range, Black and Leather Brown



Skirting and Door Surround

PVC-U Skirting and Door Surround

A high quality ogee shape PVC skirting and door surround product.

The ideal low maintenance, quick fix solution to any home improvement project.

Save time with no more sanding or painting with this simple, streamlined solution.

A neat professional finish every time.

- Save time by up to 50%
- Low maintenance
- Long lasting performance

Long lasting periorina	lice			J	
	Code	Description	Unit	Units per pack	White
Skirting a	and Door	Surround			
	FOS70	70mm Door Surround	5.3m	5	•
	FOS125	125mm Skirting	5m	5	•







Plastops

Freefoam's own range of colour matched plastic-headed pins produced from A4 marine grade stainless steel to eliminate the risk of rust and discolouration. Available in a variety of sizes and colours to match our fascia, soffit and cladding systems.

				١	White Colour				Woodgrain									
						BL	e 6	SAB	SG	AG AG	WGM	WGO	WGB	WGR	WGI	WGAG	WGCHG	WGCR
	Code	Description	Unit	Units per pack	White	Black	Leather Brown	Sable	Storm Grey	Dark Grey Anthracite Grey	Mahogany	Light Oak	Black Ash	Rosewood	Irish Oak	Anthracite Grey	Chartwell Green	Cream Agate Grey
ŀ	PlasTops																	
I	P30	30mm Pins	30mm	200	•	•	• •	•	•	• •	•	•			•		•	•
I	P40	40mm Pins	40mm	200	•	•	• •	•	•	• •	•	•			•		•	• •
I	N40	40mm Nails	40mm	100	•													
I	N50	50mm Nails	50mm	100	•	•	• •	•	•	• •	•	•			•		•	• •
I	N65	65mm Nails	65mm	100	•	•	• •	•	•	• •	•	•			•		•	• •
ı	ACSS250	Cladding Screws	30mm	250														
(CP30	Cladding Pins	30mm	250	•													

Please order Woodgrain Mahogany Pins & Nails to match Woodgrain Rosewood products Please order Anthracite Grey Pins & Nails to match Woodgrain Anthracite Grey products Please order Black Pins & Nails to match Woodgrain Black Ash



Cladding

A range of exterior cladding products to provide not only a decorative but also a protective facing to any new build or renovation project.

- Standard Open V and Shiplap styles in white and woodgrain finishes
- Fortex® embossed cladding in Double Shiplap, Weatherboard and Shadow Gap Styles.
- X-Wood 16mm woodgrain heavy duty cladding.

Durable

- Standard white cladding products are eligible for a standard 20 year guarantee that can be extended to an impressive 50 year guarantee* when registered online.
- Woodgrain, Fortex embossed and X-Wood cladding come with a guarantee of up to 10 years.
- · Light and easy to install
- * subject to T & Cs

Cladding Ventilation

Continuous ventilation from the bottom to the top of all cladding installations is critical to the performance.

A minimum of 25mm ventilation space should be allowed between cladding and the breather membrane.

The Freefoam Solution

A choice of trims to incorporate ventilation to any cladding installation. Suitable for all Freefoam cladding styles.

PRODUCT NAME: 25mm Multi-Vent Starter Trim

PRODUCT CODE: FC3123

PVC starter trim with built in ventilation. Vented spaces in the trim allow air to pass behind cladding boards. Fitted at the base of any cladding installation.

PRODUCT NAME: 25mm Multi-Vent Starter/ Closer Trim

PRODUCT CODE: FC311E3

PVC starter trim with built in ventilation. Vented spaces in the back part allow air to pass behind the cladding boards. Colour coordinated front part gives a neat and professional finish. Should be fitted at the base and/or the top of any cladding installation.

Standard Cladding

Code Description Units per pack Aluminium Grey White Grey Light Oak Black Ash Rosewood Anthracite Grey Agate Grey							β	WGO	WGB	WGR	WGAG	WGATE
	Code	Description	Unit	Units per pack	Aluminium Grey	White	Grey	Light Oak	Black Ash	Rosewood	Anthracite Grey	Agate Grey



Snipiap Ci	adding									
FC151	151mm Shiplap	5m	5	•	•	•	•	•	•	•
FC210	Butt Joint	Piece	10	•	•	•	•	•	•	•



Open V Cladding											
FV100	100mm Open V	5m	5		•						
FV100	100mm Open V	5m	4			•	•	•	•	•	
FV209	Butt Joint	Piece	10		•	•	•	•	•	•	

Cladding 1	Trims and Accessories										
FC3013*	2 Part Edge Trim	3m	5		•		•	•	•	•	•
FC3023*	Universal Edge Trim	3m	5		•		•	•	•	•	•
FC3043*	2 Part External Corner Trim	3m	5		•		•	•	•	•	•
FC3153*	2 part H trim	3m	5		•		•	•	•	•	•
FC3123**	25mm Multi Vent Starter Trim	3m	5		•	•					
FC311E3*	25mm 2 Part Multi Vent Starter/Cover Trim	3m	1		•						
FC3113	25mm 2 Part Multi Vent Starter/Cover Trim						•	•	•	•	•
FC206	Drip Trim	5m	10		•						
FCA3063*	Drip Trim Aluminium	3m	6	•							
FCF2123*	Starter Trim	3m	5		•						
FC318E3	'H' Edge/ Extension Trim	3m	1		•						
FC319E3	2 Part Reveal Liner	3m	1		•						
ACSS250	Cladding Screws	30mm	250								

See page 23 for diagrams



^{*} VERY IMPORTANT: It is essential to use the Vent Starter Trim for EVERY cladding installation.

^{*} Can be bought in single pack quantities

Embossed Cladding FOITEX White Colour GY SAND SAND PB CAP AB MG SG SC CLB SLG CLB SAGN AG Aluminium Grey Units per pack Ë 333mm Double Plank Shiplap Embossed FCD333E 333mm Double Shiplap Cladding FCD210E Butt Joint 10 • 170mm Feather Edge Weatherboard Embossed FCF170E 170mm Embossed FCF209E Butt Joint Piece 10 •

	180mm	Shadow Gap Cladding Pine Embo	ssed	i													
	FCG182P	E 182mm Shadow Gap Embossed Claddir	ıg	5m	4	•	•	•	•		•		•	•		•	•
	FCG209	E Butt Joint		Piece	10) (•	•	•		•		•	•		•	•
					ı												
					ठ		irey										
					er pe		Ē										
			-		Units per pack	te	Aluminium Grey		9		0			(B	m	Z	
			Unit		Ē	White	A Pir	5 S	SAN	ЬВ	CAF	B Z	2 0	SE	5	SAGN	ΑĞ
	Cladding 1	rims and Accessories															
	FC301E3*	2 Part Edge Trim	3m		5	•		•	•	•	•	•	•	•	•	•	•
	FC302E3*	Universal Edge Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
	FC304E3*	2 Part External Corner Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
	FC307E3*	2 Part Internal Corner Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
	FC317E3*	2 Part 135° External Corner Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
See page 23	FC315E3*	2 Part 'H' Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
for diagrams	FCF2123*	Starter Trim	3m		5	•											
	FCA3063*	Drip Trim Aluminium	3m		6		•										
	FC319E3	2 Part Reveal Liner	3m		5	•		•	•	•	•	• •	•	•	•	•	•
	FC318E3	'H' Edge/Extension Trim	3m		5	•		•	•		•	• •	•	•	•	•	•
	FC3123**	25mm Multi Vent Starter Trim	3m		5	•	•)									
	FC311E3*	25mm 2 Part Multi Vent Starter/Cover Trim	3m		5	•		•	•	•	•	• •	•	•	•	•	•
	ACSS250	Cladding Screws	30mn	n	250												

^{*} VERY IMPORTANT: It is essential to use the Vent Starter Trim for EVERY cladding installation.

^{*} Can be bought in single pack quantities

Cladding Trims for Standard Range - from page 21























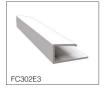






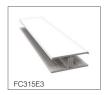
Cladding Trims for Fortex Embossed Range - from page 22

































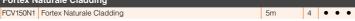
Fortex Naturale Cladding



qe		Dogovination
Code		

Ë

Fortex Na	aturale	Claddi	ng
-----------	---------	--------	----

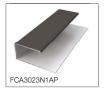




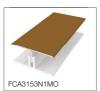
Fortex N	aturale Cladding Trims							
FCA3023N1	Aluminium J Trim	3m	2	•	• •	•	•	•
FCA3043N1	2 Part Aluminium External Corner Trim	3m	2	•	•	•	•	•
FCA3153N1	2 Part Aluminium H Trim	3m	2	•	• •	•	•	•
FCA3163N1	Aluminium Ventillator Cover Trim	3m	2	•	•	•	•	•
FC3123*	25mm Multi Vent Starter Trim	3m	5					•
FCA3063	Aluminium Drip Trim	3m	1					•
ACSS250	Cladding Screws	30mm	250					

* VERY IMPORTANT: It is essential to use the Vent Starter Trim for EVERY cladding installation.

Cladding Trims for Fortex Naturale Range















Fortex Naturale Trim Range Colours



X-Wood Cladding**

	tion
Code	Description

	•	
l		
		O
		ggc
		$_{\circ}$

Units per pack
White WGW
Cream WGCR

Woodgrain

Geryed Cedar WGGC Greyed Cedar WGGC Wine Red WGWR Anthracite Grey WGAG White





X-Wood	Cladding Trims							
FCA3013*	2 Part 'U' Trim	3m	5	• •	•	• •	•	
FCA3023*	'J' Trim	3m	5	• •	•	• •	•	
FCA3043*	2 Part External Corner Trim	3m	5		•	• •	•	
FCA3153*	2 Part 'H' Trim	3m	5	• •	•	• •	•	
FCA3163	Cover Trim for Vented Starter Trim	3m	1	• •	•	• •	•	
FC3123*	25mm Multi Vent Starter Trim	3m	1					•
FCA3123*	Aluminium Starter Trim	3m	5					
FCA3063*	Drip Trim Aluminium	3m	6					•
ACSS250	Cladding Screws	30mm	250					

^{*} VERY IMPORTANT: It is essential to use the Vent Starter Trim for EVERY cladding installation.

Cladding Trims for X-Wood Range



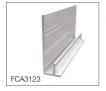


















^{**} Lead times apply to X-Wood Cladding



See our full colour range

Handy colour swatch page at the back of this catalogue

^{*} Can be bought in single pack quantities

Fortex Cladding Colour Range

























X-Wood Cladding Colour Range













Fortex Naturale Cladding Colour Range













Shiplap Cladding Range













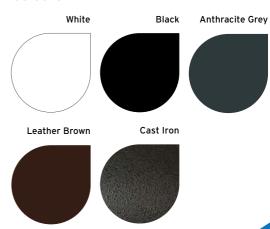
Freefoam offer the Freeflow® range of innovative, high quality PVC-U rainwater systems.

Each rainwater system is co-extruded with a white interior and a range of exterior colours – Freefoam's innovative solution to the problems associated with rapid heat absorption and expansion of gutters.

Systems

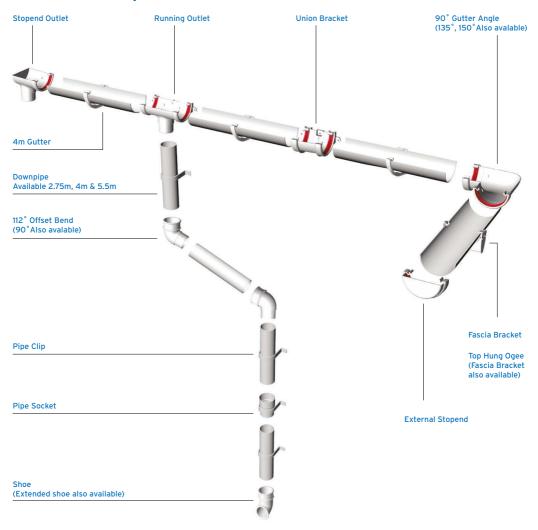
Square, Round, Deep, Ogee and Cast Iron effect

Colours





Rainwater Systems



Co-extruded Gutters

Each rainwater system is co-extruded with a white interior and a range of exterior colours - Freefoam's innovative solution to the problems associated with rapid heat absorbtion and expansion of gutters.



Square and Round Rainwater Systems

					BL	FB	, AG
	Code	Description	Box/Pack Quantities	White	Black	Leather Brown	Anthracite Grey
	Freeflow S	Square Gutter & Fittings					
•	FSG400	4 Mtr Square Gutter	6	•	•	•	•
	FSG500	5 Mtr Square Gutter	6	•	•	•	•
	FRS601	150° Gutter Angle	24/1	•	•	•	
	FRS602	Union Bracket	24/6	•	•	•	•
	FRS603	90° Gutter Angle	20/1	•	•	•	•
	FRS604	135° Gutter Angle	26/1	•	•	•	•
D	FRS605	Running Outlet	16/1	•	•	•	•
	FRS606	Stopend Outlet	30/1	•	•	•	•
	FRS607	Stopend External	135/15	•	•	•	•
	FRS608	Stopend Internel	200/10	•	•	•	•
	FRS609	Fascia Bracket	150/25	•	•	•	•
	FRS611	Square to Round Gutter Adaptor	55/11	•	•	•	

Square and Round Rainwater Systems

					님	щ	AG
						_	
						Leather Brown	Anthracite Grey
		Description	ie k			r Bro	ojte (
	Code	sorip	Box/Pack Quantities	White	Black	athe	thrac
	ဝိ	Po	8 g	₹	Ba	Ĕ	An
	Freeflow	Square Downpipe & Fittings					
	FSP275	2.75 Mtr Square Downpipe	6	•	•	•	•
	FSP400	4 Mtr Square Downpipe	6	•	•	•	•
	FSP550	5.5 Mtr Square Downpipe	4	•	•	•	•
	FRS524	90° Offset Bend	40/10	•	•	•	•
	FRS525	Pipe Socket	100/10	•	•	•	•
	FRS526	Pipe Clip	200/10	•	•	•	•
	FRS536	Flush Pipe Clip	240/30	•	•	•	•
	FRS527	112° Offset Bend	30/5	•	•	•	•
	FRS528	Shoe	56/14	•	•	•	•
	FRS529	112° Branch	20/10	•	•	•	•
	FRS531	Square to Round Pipe Adaptor	100/10	•	•	•	•
	FRS532	Mini Offset	20/1	•	•	•	•
	FRS533	Access Pipe	20/4	•	•	•	
							_
		Round Gutter & Fittings					
St.	FRG400	4 Mtr Gutter	6	•	•	•	•
	FRG500	5 Mtr Gutter	6	•	•	•	
1 '	FRR601	150° Gutter Angle	34/1	•	•	•	
	FRR602	Union Bracket	30/6	•	•	•	•
	FRR603	90° Gutter Angle	22/1	•	•	•	•
	FRR604	135° Gutter Angle	30/1	•	•	•	•
	FRR605	Running Outlet	18/1	•	•	•	•
	FRR606	Stopend Outlet	30/1	•	•	•	
	FRR607	External Stopend	120/15	•	•	•	•
	FRR608	Internal Stopend	270/30	•	•	•	
	FRR609	Fascia Bracket	180/30	•	•	•	•
	FRR611	Square to Round Gutter Adaptor	40/10	•	•	•	
	Freeflow F	Round Downpipe & Fittings					
	FRP275	2.75 Mtr Round Downpipe	6	•	•		•
	FRP400	4 Mtr Round Downpipe	6	•	•	•	•
	FRP550	5.5 Mtr Round Downpipe	4	•	•	•	•
	FRR524	90° Offset Bend	40/10	•	•	•	•
	FRR525	Pipe Socket	100/10	•	•	•	•
	FRR526	Pipe Clip	180/30	•	•	•	•
	FRR536	Flush Pipe Clip	200/10	•	•	•	•
	FRR527	112° Offset Bend	48/9	•	•	•	•
	FRR528	Shoe	40/10	•	•	•	•
	FRR529	112° Branch	20/10	•	•	•	•
	FRR530	Hopper (FITS SQ OR RD)	10/1	•	•	•	•
	FRR532	Mini Offset	20/1	•	•	•	
	FRR533	Access Pipe	20/1	•	•	•	

[•] Some colour products are subject to a lead time. Ask your stockist for details

40/1

40/1

150/25

Ogee and Deep Rainwater Systems

FRO611

FRR611

FRO613

					Ы	РВ	AG
	Code	Description	Box/Pack Quantities	White	Black	Leather Brown	Anthracite Grey
	Freeflow C	Ogee Gutter & Fittings					
-	FOG400	4 Mtr Ogee Gutter	4	•	•	•	•
	FRO601	150° Gutter Angle	10/1	•	•	•	
2	FRO602	Union Bracket	22/1	•	•	•	•
	FRO603	90° Gutter Angle	10/1	•	•	•	•
	FRO604	135° Gutter Angle	12/1	•	•	•	•
	FRO605	Running Outlet	12/1	•	•	•	•
	FRO606	Stopend Outlet	24/1	•	•	•	•
The state of the s	FRO607	External Stopend	80/10	•	•	•	•
	FRO608	Internal Stopend	100/10	•	•	•	•
	FRO609	Fascia Bracket	100/20	•	•	•	•



Freeflow Deep Gutter & Fittings									
FDG400	4 Mtr Deep Round Gutter	4	•	•	•	•			
FDF602	Union Bracket	26(2x10,1x6)	•	•	•	•			
FDF603	90° Gutter Angle	15/1	•	•	•	•			
FDF604	135° Gutter Angle	24/1	•	•	•	•			
FDF605	Running Outlet	14/1	•	•	•	•			
FDF607	External Stopend	96/12	•	•	•	•			
FDF608	Internal Stopend	300/30	•	•	•	•			
FDF609	Fascia Bracket	150/25	•	•	•	•			
FDF611	Deep to Round Adaptor	40/10	•	•					



	Steel Gutte	er brackets"		
I	FRR614	Galvanized Steel Adjustable Side Rafter Bracket	1	
	FRR615	Galvanized Steel Rise and Fall Bracket	1	
	FRR616	Galvanized Steel Drive for rise and Fall Bracket	1	
ı	FRR617	Galvanized Steel Side Rafter Bracket	1	

^{*} Only suitable for round gutter system, see page 29

Ogee 2 Sq Adaptor

Ogee 2 Rnd Adaptor

Top Hung Fascia Bracket



Cast Rainwater Systems

	_ 		1 1	
				CBL
				J
		tion and the state of the state	es es	5
	Code	Description	Box/Pack Quantities	Cast Iron
	ဝိ	O O	8 3	Ö
	Freeflow F	Round Gutter & Fittings - Cast Iron		
	FRG400CBL	4 Mtr Round Gutter	1	•
	FRR602CBL	Union Bracket	1	•
	FRR603CBL	90° Gutter Angle	1	•
	FRR604CBL	135° Gutter Angle	1	•
	FRR605CBL	Running Outlet	1	•
	FRR606CBL	Stopend Outlet	1	•
	FRR607CBL	External Stopend	1	•
	FRR609CBL	Fascia Bracket	1	•
		Deep Gutter & Fittings - Cast Iron		
A		4 Mtr Deep Gutter	1	•
		Union Bracket	1	•
		90° Gutter Angle	1	•
		135° Gutter Angle	1	•
		Running Outlet	1	•
	FDF607CBL	External Stopend	1	•
	FDF609CBL	Fascia Bracket	1	•
		Round Downpipe & Fittings - Cast Iron		
		2.75 Mtr Round Downpipe	1	•
		5.5 Mtr Round Downpipe	1	•
		90° Offset Bend	1	•
	FRR526CBL		1	•
		112° Offset Bend	1	•
	FRR528CBL		1	•
		112° Branch	1	•
		Hopper (FITS SQ OR RD)	1	•
	FRR532CBL		1	•
	FRR534CBL		1	•
	FRR535CBL	Pipe Clip Collar	1	•
			~ δ	
			Pacl	_
			Box/Pack Quantities	Black
	Gutter Bru	-	180 1	<u> </u>
			40	
	AGBRBL10	Freefoam Gutter Brush Black - 10 x (4m x 100mm)	10	•



PVC Internal Panelling

A clean and modern design option, the Geo-panel® panelling system can be fitted to any interior wall to quickly and easily refurbish and restyle bathrooms, kitchens, utility rooms - and even home offices!

The Geo-panel® range includes a wide variety of colours and textures, from classic marble and traditional white gloss tiles through to contemporary quartz and matt concretes. For a perfect finish, choose from our ceiling panels and our collection of high-quality PVC and aluminium trims.

Easy to fit

- · Panels fit together with a waterproof tongue-and-groove joint
- No drying time and grouting
- Fix over existing surfaces, including tiles
- · No specialist training required
- Range of PVC and Aluminium trims

Internal Panelling

Geo-Panel® Wall, Ceiling and Trim Range

						()		()				O	()	O	()	C	ပ	Ö
				WHC	PMC	LGMC	WDC	SGDC	ASC	WMC	SMC	CGMC	CBMC	GOMC	AZMC	WHGTC	LGGTC	AZGTC
				>	ш.	_			Q.	>	0)	U	U	O	Q	>	_	⋖.
								Ston										
							one	Storm Grey Diamond Stone				Ş	ge				Light Grey Gloss - Tile	
			~		Pergamon Marble	Light Grey Marble	White Diamond Stone	iamo				Matt Concrete Grey	Matt Concrete Beige	/att	att	Tile	- SSC	Ĭ
	па		pac	SS	Σ	y Ma	mor	ξ	arkle	rble	tallic	crete	crete	IT N	Γe	- SS	ğ	- SSC
	rip tic		per	8	amo	Gre	Dia	Gre	Sp	≅	Me	OO.	OO.	Que	Azu	9	Gre	ğ
Code	Description	Unit	Units per pack	White Gloss	erga	ight	Vhite	torn	Arctic Sparkle	White Marble	Silver Metallic	/att	/att	Grey Quartz Matt	Grey Azure Matt	White Gloss - Tile	ight	Azure Gloss - Tile
		ا ا	ر ا	>	п.	_	>	0)	Q.	>	0)	_	_	0	U	>	_	< -
	Wide Panel 2.4m x 1m x 10.5mm											_	_		_			
GE7	Geopanel 1000mm Wide Panel	2.4m	1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
1		I		¥	S													
			충	>														
	tion		ed Je		ilver													
<u>o</u>	Description		Units per pack	e e	Bright Silver													
Code	Des	L	Unit	White	Brig													
Premium \	Wide Panel Aluminium Trims		·															
GET7AUT	Aluminium End U White	2.4m	1	•	•													
GET7AIC	Aluminium Internal Corner White	2.4m	1	•	•													
GET7AEC	Aluminium External Corner White	2.4m	1	•	•													
GET7AHT	Aluminium H-Join White	2.4m	1	•	•													
1		ı	ı	LO		2	()											
				WHC	PMC	LGMC	WDC	ASC										
					ple	ple	£											
	_		ack	υ	Mar	Mar	Ouc	훋										
	ig io		Jer p	Glos	non	arey	Dian	Spa										
Code	Description	Chit	Units per pack	White Gloss	Pergamon Marble	Light Grey Marble	White Diamond Stone	Arctic Sparkle										
Ŏ	۵	⊃	⊃	>	ď		3	∢										
Classic SI	im Panels 2.7m x 250mm x 5mm																	
GE8	Geopanel 250mm Wide PVC Panel	2.7m	4	•	•	•	•	•										
Classic SI	im Panels 4m x 200mm x 5mm																	
GE8	Geopanel 200mm Wide PVC Panel	4m	4	•														
Cailing Da																		
GE8TSWHC	nels 200mm x 6mm PVC Ceiling Panel - 2 Strip White/Silver	2.7m	E	•														
GE8TSWHC4		4m	5	•														
Coiling Bo																		
GE8WHCSI	nels 250mm x 5mm 5mm PVC Ceiling Panel Silver Edge	2.7m	E	•														
GLOWI ICOI	STITTI VO Celling Faller Sliver Eage	2.7m	5															
			쓠															
	cription		per pack	¥	S													
9	Scrip	_		<u>e</u>	ē													
Code	Deso	ĬĬ.	Units	White	Silver													
Classic SI	im & Ceiling Panel Trims																	
GET8UT	Geopanel PVC 6.2mm End U White	2.7m	10	•	•													
GET8EC	Geopanel PVC 6.2mm External Corner White	2.7m	10	•	•													
GET8IC	Geopanel PVC 6.2mm Internal Corner Silver	2.7m	10	•	•													
GET8HT	Geopanel PVC 6.2mm H-Join White Geopanel PVC 6.2mm Scotia Moulding White	2.7m	10	•	•													
GET8SM	Geopanier F VC 0.211111 Scotia Woulding Writte	2.7m	10															

Geo-panel® Internal Panelling Finishes

Slim Wide



Pergamon Marble(PMC)



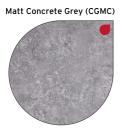


Storm Grey Diamond Stone (SGDC)





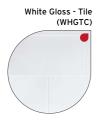






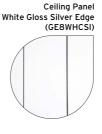














Note:

Colours/designs shown in this brochure are for availability identification only. Please see in store display or samples for exact colour/design representations.



Become a Freefoam Registered Installer TODAY!

There's never been a better time to get your business aligned to one of the major roofline brands.

FREE TO JOIN FREEFOAM!

my freefoom

Reasons to become a freefoam registered installer

- $\bullet \ \ \text{Offer your customers a market leading product guarantee straight from the manufacturer} \\$
- Stand out from the crowd. Only Freefoam Registered Installers can offer the Extended 50 year Guarantee
- Marketing and Sales support to build your business.

Free leads! Generated from our consumer websites, myfascia.co.uk and mycladding.com

APPLY TODAY ONLINE AT www.myfreefoam.com



Installation Guide

Preparation

Plan all roofline installation procedures, system components and installation sequence before onsite fitting begins.

Ensure all work is carried out in accordance with good construction practice and complies with relevant Building Regulations.

Access

Never attempt to access the work area with an unsupported ladder or without a stable deck.

Always use a full scaffold platform or a purpose built cantilevered deck system with quard rails.

Storage and Handling

Load and unload by hand and support both ends of a 5m length when handling. Stack no higher than 1m, in pack sleeve on a flat base. Avoid contact with solvents, paint, creosote, bitumen etc. Coloured products should not be stored in direct sunlight, as heat distortion may occur.

Cutting

Use conventional carpentry tools. Run power tools at speeds appropriate for timber. Nail and screw holes do not require pre-drilling.

Asbestos

By law all asbestos materials must be removed by trained operatives under strictly controlled conditions. If you suspect asbestos is present consult your Local Authority before proceeding.

Working Temperatures

Avoid installation in temperatures greater than 30°c or less than 0°C.

Fixing Guidelines

Fixing	Board	Max Centres	
N50	Capping Over: FW & FO	White 600mm Black 300mm Woodgrain and	
N65	Full Replacement: FMS, FMXS, FMO, FMD, FMR, FMF, FMXD		
P40	Soffit		
P30	Soffit	other colours 400mm	
CP30	Hollow Soffit		

Spacing of Fixings: Horizontal				
White Fascia	600mm			
Coloured/Woodgrain Fascia	400mm			

Black Fascia

Spacing	of	Fixings:	Vertical
---------	----	----------	----------

Fascia Up to 250mm wide
Fascia Wider than 250mm
Distance between fixings when there are 2

when there are 2
Distance between fixings
when there are 3

2 fixings at required horizontal centres

3 fixings at required horizontal centres

not less than half width of board

not less than quarter width of board

New Build/Full Replacement

400mm

Freefoam manufacture a range of Magnum boards for use in full replacement or new build work which require no backing board. The boards are self-supporting and should be fixed with Plastops colour co- ordinated nails.

Freefoam Rainwater system can be fitted directly to Magnum boards without the need for timber support.

If fascia used is less than 15mm then 12mm WBP plywood backing boards should be used.

Please note:

Distance from edge of board = not less than thickness of board, or 15mm, whichever is greater*

*pre-drill fascia in low temperatures & predrill accessories in all temperatures

Capping Over

Freefoam manufacture 10mm Square Leg and Ogee Fascia designed for capping over existing fascia and bargeboard that are in sound condition, or for use with a backing board in refurbishment work.

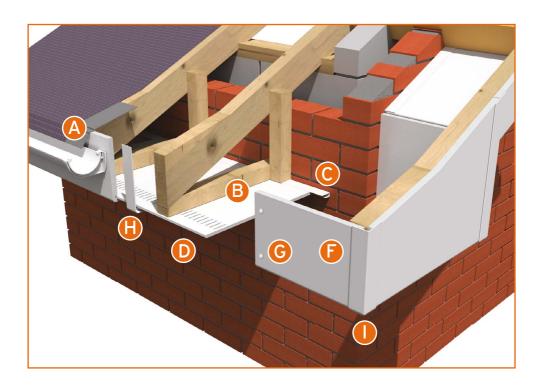
Available in a wide choice of colours with complete range of matching trims and accessories for a neat finish.

FO Ogee Fascia (10mm) FW Plain Fascia (10mm)



Standard over fascia installation

Roofline Installation



Ventilation

Freefoam supply a range of roofline ventilation products. Ask your stockist for details. Adequate ventilation of the roof space through eaves, in terms of minimum statutory air path dimensions for various roof configurations in new build constructions, is a specified requirement.

Set out in British Building Regulations 2010: Approved Document F (England & Wales), as well as in its Scottish, Irish and Northern Ireland equivalents.

Order of work

Cut back and replace damaged or worn felt, eaves can be made watertight using an eaves protector.

Use string lines to ensure rafter feet are aligned, If necessary use packing to align rafter feet.

Install soffit bearers using timber battens spanned from rafter feet to the wall.

Ensure that they are aligned and level.

Installation of Soffit

- If using a F107 'J' Trim fix this at each soffit bearer before soffit is fixed.
- Fix soffit boards to bearers using appropriate fixing pins (as shown on page 43). Soffit should extend 5mm beyond rafter if magnum fascia is used.

If fixing hollow soffit with joints perpendicular to fascia boards then supporting bearers will need to occur at each joint.

If necessary boards can be joined at the ends using a F106 H/Joiner. Allow for 6mm extension gap at each end (12mm gap if joining two boards).

Installation of Fascia

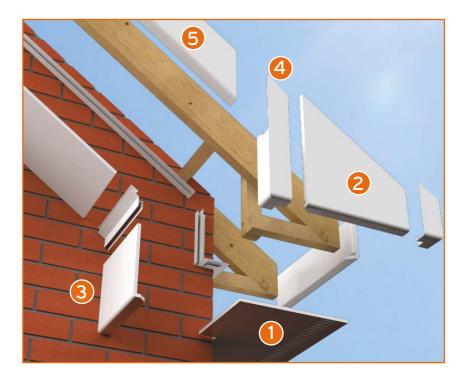
- When determining fascia size ensure height is sufficient to provide tile kick. Allow for over fascia vents if being used.
- Fix Magnum Fascia Board with two N65 Plastops at each rafter end and non Magnum boards (less than 15mm) using two N50 Plastops at each rafter end.
- Join lengths of fascia between rafter positions using appropriate matching joiners ensuring 6mm expansion gap is provided at the end of each board.
- Use matching corner for internal and external corners. Allow for 6mm extension gap at each end (12mm gap if joining two boards).







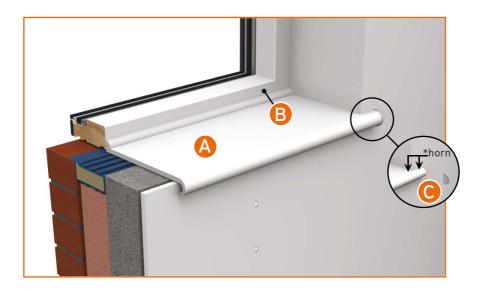
Box End



- Finish Fascia level with the face of the rafter gable. Soffit should over hang by 10mm and may be cut square or mitred.
- Measure and cut fascia to form the return to gable wall using appropriate Double Ended Fascia Board, measure and cut box end to suit.
- Measure and cut fascia to form the return to gable wall.
- 4 Remove section from corner joint to fit around rafter.
- Fix fascia as bargeboard directly to gable rafter.

Note: Timber hangers should be installed as required to locate box end structure.

Window Boards and Trims



Preparation

Ensure substrate is clean and dry and is suitably sound to retain the window boards. If rotting or loose timber is present this should be replaced.

Installation

Ensure substrate is level and at the required height to meet the window at the required location. If necessary use packing to level the substrate or to raise the level.

Cut window A board to required depth and length. Note: allow extra length if horns* are required and trim board accordingly.

Fix board to substrate using a suitable general-purpose adhesive.

Junction between the board edges and window/reveals should be sealed with low modulus silicone.

If mechanical fixing is necessary use stainless steel screws or nails with plastic heads.

Fix trim B at junction between the cill and the window using low modulus silicone.

Cut endcaps (e) to length and fix using a suitable general-purpose adhesive.

Cladding Installation



Fitting instructions are suitable for all cladding ranges. Please see pages 22-26 for details of cladding products.

All Freefoam cladding profiles can be fitted horizontally or vertically.

When installing Cladding boards vertically, additional cross battens fitted vertically must be installed to allow for ventilation.

It is essential that continuous ventilation is maintained between the vertical battens from the top to the bottom and adequate expansion is allowed at the ends of boards.

Typical Installation Sequence

- Fix a suitable breather membrane to substrate in accordance with manufacturer's recommendations.
- 2 Fix vertical 25mm x 50mm battens to substrate at 400mm c/c. start 200mm from the ground.
- Fix ventilated starter trim at bottom of area (FC3123) making sure it is level. Fix ventilated closer trim (FC311E3) to top of area.
- Fix Single Part Trims and/or first part of Two Part Edge, Corner and 'H' Trims as necessary. Do not cut second parts of trim to length yet.
- Fit first Cladding Plank to Vented Starter Trim and screw fix top to cladding batten using ACSS250 cladding screws. Where necessary join the end of boards using a compatible Butt Joint or 'H' Trim with the correct expansion joint.
- Interlock next Cladding Plank to the Plank below and screw fix top to cladding batten with ACSS250 cladding screws, repeating the process until the entire area to be clad is covered.
- Cut second parts of 2 part trims to length and clip in place.

Note: Download Dormer Cheek installation information from www.freefoam.com

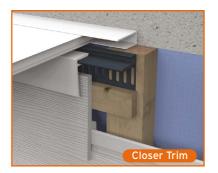
Cladding Trims



















Roofline and Cladding Maintenance

When compared to the more traditional timber PVC roofline and cladding is an extremely low maintenance product.

All of our external PVC products come with weather-resistant properties that ensure they are durable enough to withstand harsh weathering and minimise the risk of severe wear and tear.

However, there are a number of steps you can take to help keep them looking as good as new for as long as possible.

Fascia, Soffit and Gutter

You can use specially formulated PVC panel cleaner, a mild, non-abrasive cleaner designed for PVC. Or you can simply wash down fascia, soffit and gutter occasionally with mild detergent and water. Clean out gutters of leaves, debris and moss. This ensures they maintain optimum performance.

Cladding

We would highly recommend rinsing your cladding down with warm soapy water or a pressure washer (adjust to 80bar maximum with the nozzle 50cm minimum distance from cladding surface) every now and then to keep it clean and free from dirt or stains. Use caution around ventilation openings to prevent excessive water ingress.

How to clean PVC if you're not using PVC panel cleaner

Step 1: Create a solution of 1 tablespoon of washing up liquid, and 1 litre of warm water in a clean plastic pail or bucket. Thoroughly mix the solution.

Step 2: Wipe the PVC panels with the solution using a microfibre cloth or sponge. Remove as much loose dirt and grime as possible. Frequently rinse the cloth with fresh water to avoid reapplying dirt to the PVC panel.

Step 3: Rinse the PVC panels with fresh water to wash away any of the soapy residue and/or the loosened dirt and grime.

Step 4: Buff the panels with a clean dry microfibre cloth to add shine and prevent soap scum from being visible.

Coastal areas: In coastal areas more frequent cleaning may be required.



Freefoam. the colour specialist







Freefoam is the colour specialist manufacturing one of the most technologically advanced colour PVC-U and PVC-UE fascia and soffit ranges using the unique patented Colormax™ technology.

Here's the science!

Freefoam manufacture using the co-extrusion process. A strong PVC-UE foam 'core' is simultaneously co-extruded with a rigid PVC-U skin, creating a smooth strong and hard wearing surface.

Colour Guaranteed

Available in a wide range of eight standard colours backed by an industry leading guarantee - up to 50 years on white products* and 10 years on all other colours

Off the shelf

Critically for trade and commercial sectors Colormax™ technology allows Freefoam to supply the majority of colour products straight from stock. With no minimum order quantities Freefoam make choosing colour an easy option..

Woodgrain

Freefoam work with world leading foil provider Renolit using the Exofol PVC film for all woodgrain products to provide a durable fade resistant product.

Manufactured with two layers, the colour pigments in the base film use Solar Shield Technology to protect the fascia, soffit and cladding against excessive heat build up and the upper transparent layer prevents against fading caused by UV radiation or other weathering effects.

This technology allows Freefoam to offer a ten year guarantee on all woodgrain products.

- · Built in sun reflection
- Reduced heat absorption
- · Reduced profile temperature and expansion

Notes

















