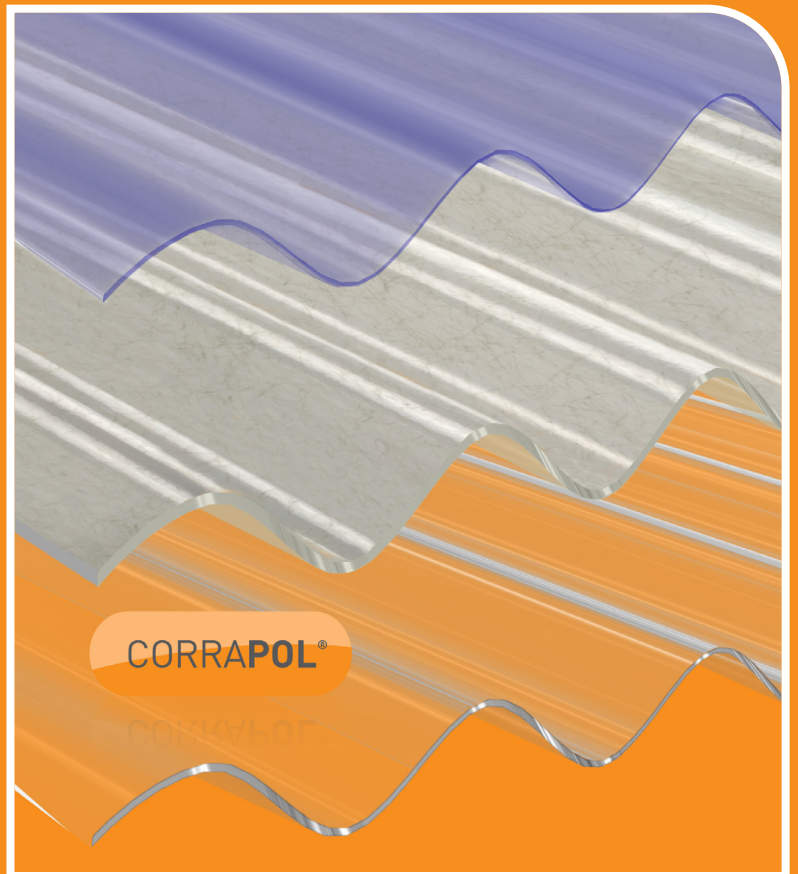


**CORRAPOL®**

## Clear **Corrugated Sheet Ranges** Technical Guide



## Clear Corrugated Sheet Ranges

The CORRAPOL® Clear Corrugated sheet range is manufactured for a wide variety of applications and offers different extrusions for varying longevity and budget requirements. The CORRAPOL® Stormroof® provides a long lasting superior corrugated roof glazing solution, whereas the CORRAPOL® DIY grade provides a more cost effective option. This brochure provides a guide as to the range and specific benefits of each extrusion type which we manufacture, along with some technical data, and installation guidelines.



### Common uses:

- ✓ Carports
- ✓ Greenhouses
- ✓ Canopies
- ✓ Shelters
- ✓ Verandahs
- ✓ Covered Walkways
- ✓ Swimming Pools
- ✓ Factory Partitions
- ✓ Cold Frames



## CORRAPOL® : Full Roof Structure

Below is a typical apex roof scenario showing how the CORRAPOL® system components are installed together for perfect results. The same methods and components can be used in most applications from Carports, Decking covers, BBQ shelters and other constructions.



### Fitting stages:

1. Fit the foam Eaves Fillers.
2. Next fit the CORRAPOL® Rock n' Lock edge to the first sheet.
3. Fix the CORRAPOL® Rock n' Lock with specialist stainless steel screws and caps.
4. Then fix the Sheets.
5. Use the CORRAPOL® Superior Flexible Fixings to fix the sheets down.
6. Fit the Aluminium Ridge System with Gaskets and Fixings.

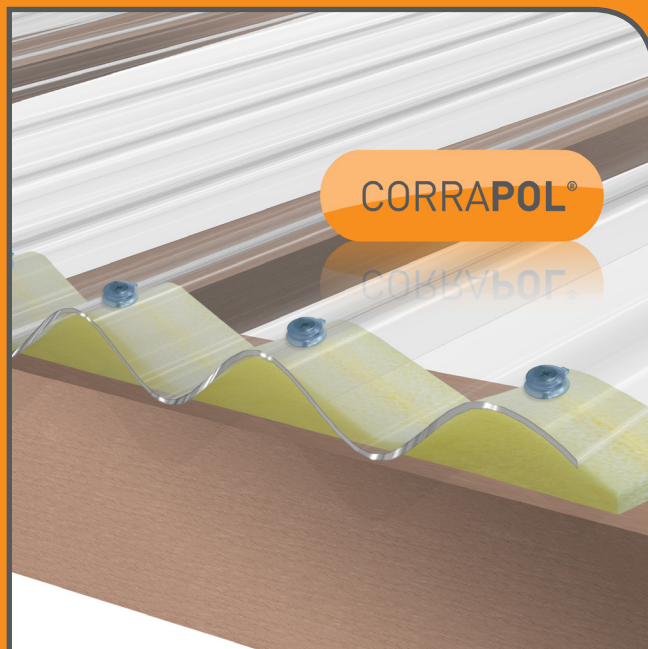
Fully constructed  
CORRAPOL® roof

## CORRAPOL® Stormroof® : Low and High Profiles

CORRAPOL® Stormroof® sheets are the strongest and longest lasting sheet within the CORRAPOL® range is the CORRAPOL® Stormroof® range. CORRAPOL® Stormroof® clear sheets are extruded from virtually unbreakable plastic resin which offers superior strength, excellent clarity and above all unrivaled weathering characteristics resulting in a very long life span. This superior strength and longevity mean that CORRAPOL® Stormroof® clear sheets will not go yellow or brittle with age, and won't crack during installation like lower cost PVC options tend to. CORRAPOL® Stormroof® clear sheets are made from resin which makes them 200 times stronger than glass of the same thickness which is generally considered to be virtually unbreakable and what we call 'Stormroof®'. The UV protection layer incorporated in to the manufacturing process of CORRAPOL® Stormroof® sheets mean they will provide superior light transmission for many years.

### Key Benefits:

- ✓ Maintains Great Light Transmission
- ✓ UV Protected
- ✓ High Impact Strength
- ✓ Virtually Unbreakable
- ✓ Estimated 25 year Lifespan
- ✓ Doesn't discolours like cheaper alternatives
- ✓ Doesn't Crack when Fixing like PVC

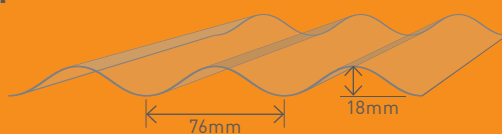


High profile in-situ view

## CORRAPOL® Stormroof® : Low Profile Sheets

### Common Uses:

- ✓ Carports
- ✓ Canopies
- ✓ Cold Frames
- ✓ Porches
- ✓ Greenhouses

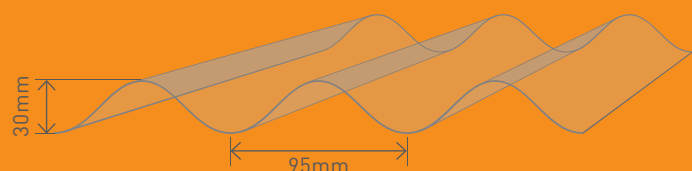


CORRAPOL®: Low Profile Stormroof®	Code
CORRAPOL® Stormroof® Low Profile Sheet 840 X 1830mm	AC19
CORRAPOL® Stormroof® Low Profile Sheet 840 X 2440mm	AC20
CORRAPOL® Stormroof® Low Profile Sheet 840 X 3050mm	AC21
CORRAPOL® Stormroof® Low Profile Sheet 840 X 3660mm	AC22

## CORRAPOL® Stormroof® : High Profile Sheets

### Common Uses:

- ✓ Agricultural Buildings/Barns
- ✓ Garages
- ✓ Covered Equestrian Areas



CORRAPOL®: High Profile Stormroof®	Code
CORRAPOL® Stormroof® High Profile Sheet 950 x 2000mm	AC802
CORRAPOL® Stormroof® High Profile Sheet 950 x 2500mm	AC804
CORRAPOL® Stormroof® High Profile Sheet 950 x 3000mm	AC806
CORRAPOL® Stormroof® High Profile Sheet 950 x 4000mm	AC808



## CORRAPOL®-PVC : DIY Grade Sheets

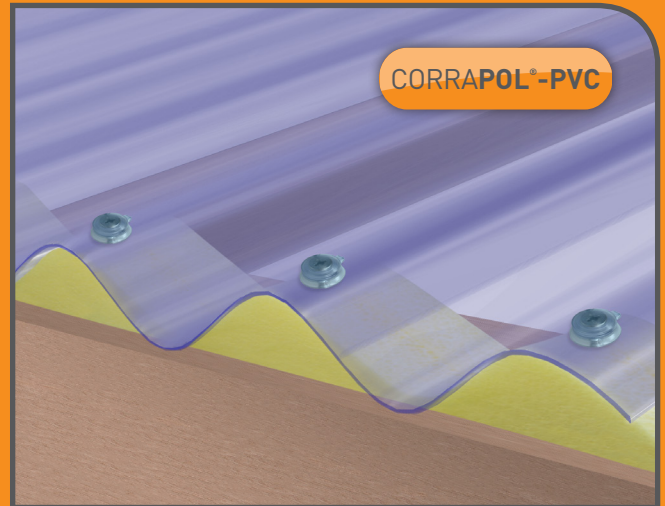
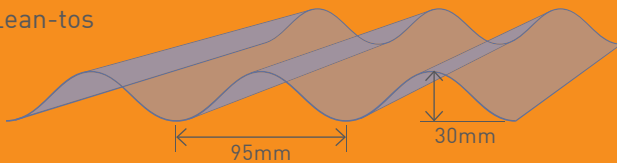
Whilst not as strong or as long lasting as the CORRAPOL® Stormroof® range, CORRAPOL®-PVC DIY Grade Sheets offer a lower cost and are ideal for areas where impact resistance is not important and also where direct sunlight is limited. In areas like this, the CORRAPOL®-PVC DIY Grade range provides an excellent solution and will provide an excellent waterproof solution with good light transmission.

### Key Benefits:

- ✓ Low Cost
- ✓ Maintains Great Light Transmission
- ✓ Allows a Degree of Visibility Whilst Retaining Privacy
- ✓ Lightweight
- ✓ Ideal for DIY

### Common Uses:

- ✓ DIY Projects
- ✓ Lean-tos



### CORRAPOL®-PVC: DIY Grade Sheet

	Code
CORRAPOL®-PVC DIY Grade Sheet 950 X 2000mm	AC702
CORRAPOL®-PVC DIY Grade Sheet 950 X 2500mm	AC704
CORRAPOL®-PVC DIY Grade Sheet 950 X 3000mm	AC706

## CORRAPOL®-GRP : Polyester Translucent Sheets

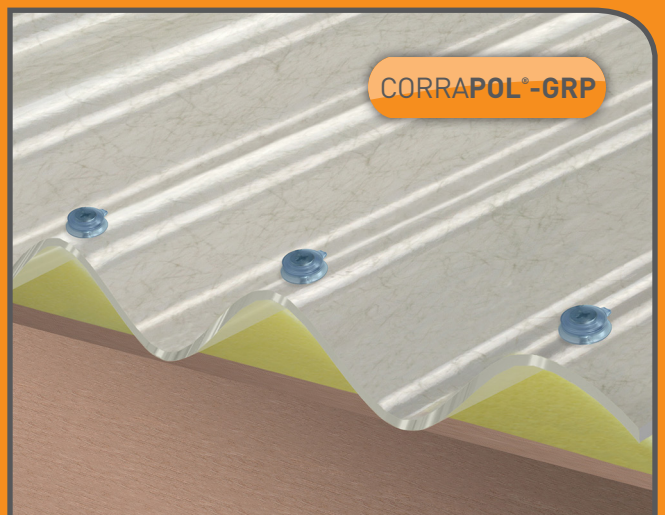
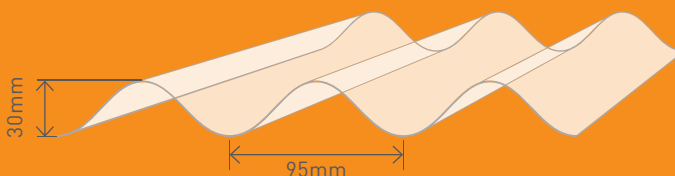
This type of CORRAPOL® provides excellent strength, similar to that of the CORRAPOL® STORMROOF® range, however the light transmission is lower due to the fibres in the resin mix. Where areas where direct sunlight is relatively low, the CORRAPOL®-GRP Translucent Sheets are an excellent solution with high impact strength and excellent rigidity.

### Key Benefits:

- ✓ Provides Privacy
- ✓ Maintains Great Light Transmission
- ✓ Allows a Degree of Visibility Whilst Retaining Privacy
- ✓ High Strength
- ✓ High Rigidity

### Common Uses:

- ✓ Agricultural Buildings/Barns
- ✓ Garages



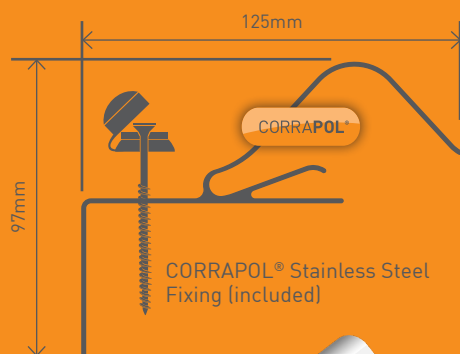
### CORRAPOL®-GRP : Polyester Sheet

	Code
CORRAPOL®-GRP Polyester Sheet 950 X 2000mm	AC602

## CORRAPOL® : Rock n' Lock Side Flashing

The newly manufactured CORRAPOL® Rock n' Lock Side Flashing is another world first that we have manufactured to help our Distributors' Customers easily finish a challenging area of any roof project. The Patent Pending and Registered Design allows users to quickly and easily create a robust, long-lasting side flashing to the gable end of any CORRAPOL® roof, with a simple Rock n' Lock system.

CORRAPOL®: Rock n' Lock Side Flashing	Code
CORRAPOL® Rigid Rock n' Lock Side Flashing 2m Mill	AC220M
CORRAPOL® Rigid Rock n' Lock Side Flashing 3m Mill	AC222M
CORRAPOL® Rigid Rock n' Lock Side Flashing 6m Mill	AC228M
CORRAPOL® Rigid Rock n' Lock Side Flashing 2m White	AC220WH
CORRAPOL® Rigid Rock n' Lock Side Flashing 3m White	AC222WH
CORRAPOL® Rigid Rock n' Lock Side Flashing 6m White	AC228WH



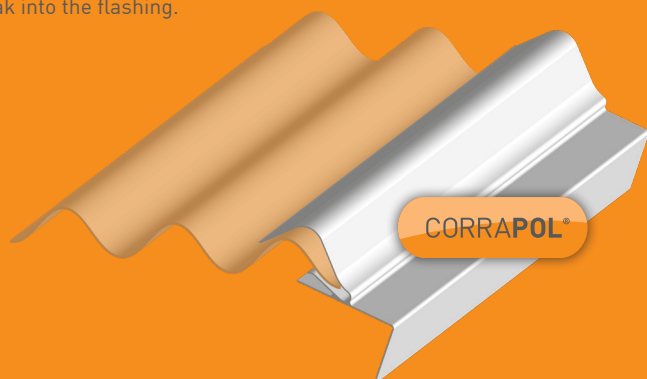
**a**

**CORRAPOL® Rock n' Lock Side Flashing**



**b**

Tilt the **CORRAPOL® Rock n' Lock Flashing** to the side and fit the first corrugated sheet peak into the flashing.



Mill



White

**c**

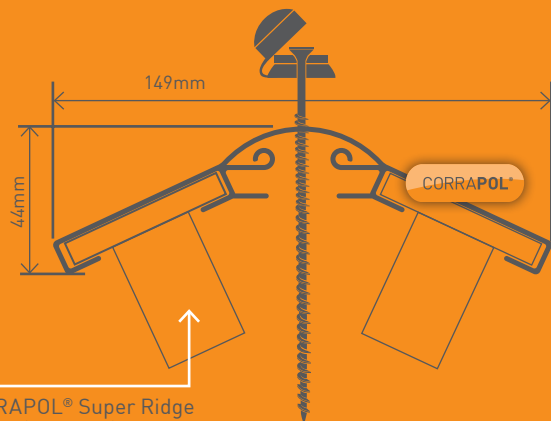
Lock the **CORRAPOL® Rock n' Lock Flashing** into place giving a waterproof and visually pleasing finish to the edge of your roof structure.



## CORRAPOL® : Aluminium Super Ridge

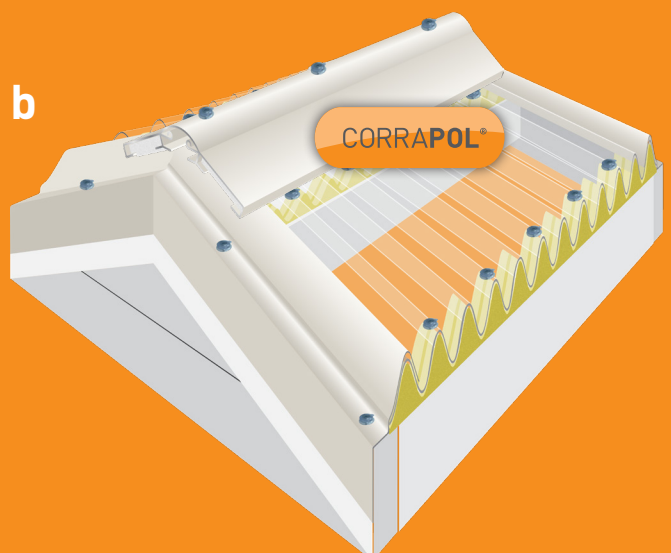
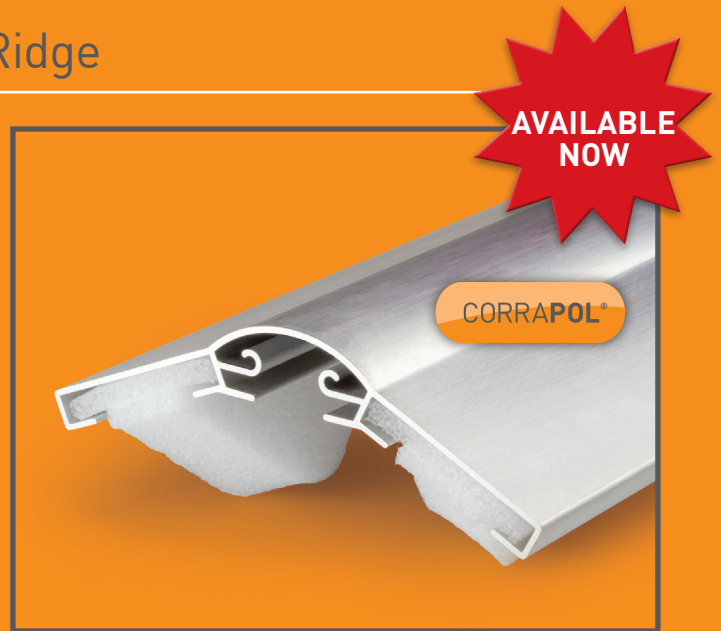
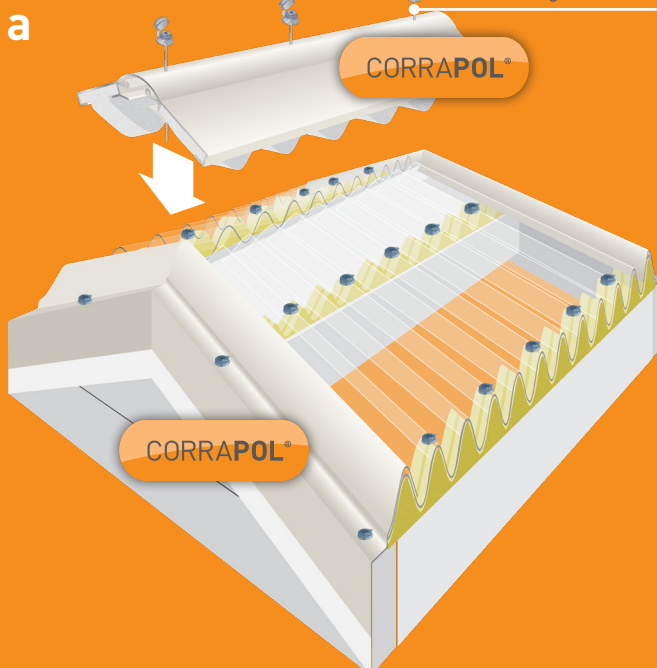
Manufactured in White and Mill finish this CORRAPOL® robust aluminium Super Ridge is another world first, including integrated pre-formed foam gaskets to fit the corrugations of the CORRAPOL® sheets. The patented design allows for a good variety of roof pitches with the gaskets being flexible enough to seal against the CORRAPOL® sheets, and create a longer lasting superior ridge solution.

CORRAPOL®: Aluminium Ridge Bar	Code
CORRAPOL® Aluminium Ridge Bar Set 2m Mill	AC330M
CORRAPOL® Aluminium Ridge Bar Set 3m Mill	AC332M
CORRAPOL® Aluminium Ridge Bar Set 6m Mill	AC338M
CORRAPOL® Aluminium Ridge Bar Set 2m White	AC330WH
CORRAPOL® Aluminium Ridge Bar Set 3m White	AC332WH
CORRAPOL® Aluminium Ridge Bar Set 6m White	AC338WH



CORRAPOL® Super Ridge Gasket (included)

CORRAPOL® Stainless Steel Fixing (included)



## CORRAPOL® : Eaves Filler

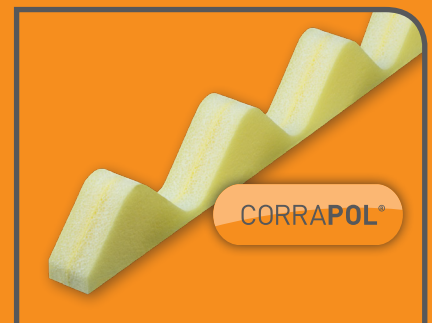
CORRAPOL® Foam Eaves Filler is manufactured from a flexible foam allowing successful sealing and draught proofing. The CORRAPOL® Foam Eaves Filler is made with closed-cell foam does not absorb moisture so can also be used to further improve waterproof sealing.

CORRAPOL®: Low Profile Eaves Filler	Code
Corrugated Low Profile Foam Eaves Filler	AC40

CORRAPOL®: High Profile Eaves Filler	Code
Corrugated High Profile Foam Eaves Filler	AC42



Low-profile Eaves Filler

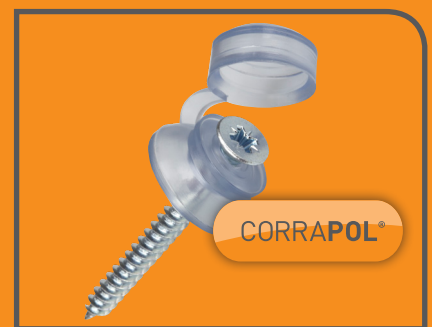


High-profile Eaves Filler

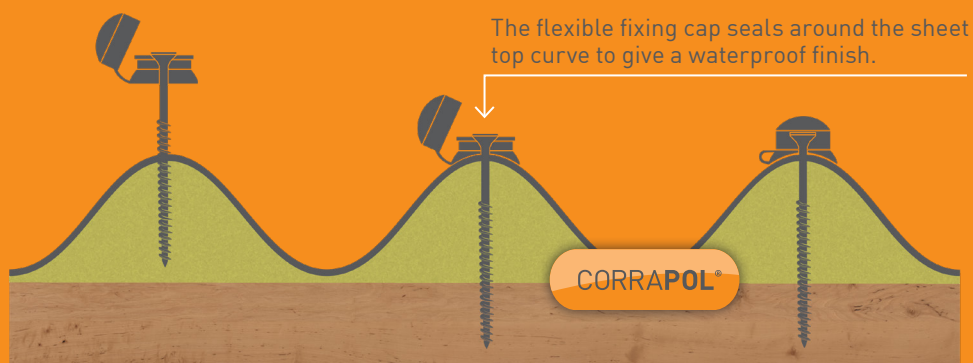
## CORRAPOL® : Superior Flexible Fixings

The Superior CORRAPOL® flexible fixings provide enhanced sealing to the contours of the curved peaks of the CORRAPOL® Stormroof® sheets. Being a screw fixing they also enable the installer to control the fixing pressure, and allow removal of the fixings if needed. The caps are clear to give an aesthetically pleasing finish to the roof and can be used with either the white or mill finished CORRAPOL® Rock n' Lock Side Flashing and CORRAPOL® New Aluminium Ridge.

CORRAPOL®: Superior Flexible Fixing	Code
CORRAPOL® Clear Flexible Fixings	AC32



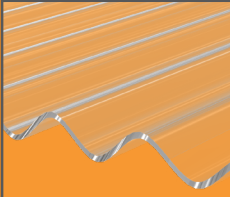
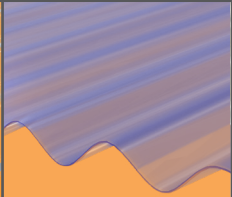
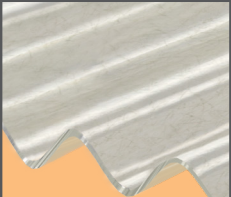










Clear CORRAPOL® Fixing Button





## CORRAPOL® : Range Selector Guide

This CORRAPOL® Range Selection Guide provides a quick guide on the various properties of the different CORRAPOL® and CORRAPOL®-BT ranges, allowing you to quickly assess the best product for your project.

	STORMROOF®	PVC	GRP	BT
				
	CORRAPOL®	CORRAPOL®-PVC	CORRAPOL®-GRP	CORRAPOL®-BT
 LONG LIFE SPAN	✓✓✓✓	✓	✓	✓
 IMPACT RESISTANT	✓✓✓	✓	✓✓	✓
 UV PROTECTED	✓✓✓✓	✓	✓	✓
 HIGH STRENGTH	✓✓✓	✓	✓	✓
 LIGHT TRANSMISSION	✓✓✓✓	✓✓	✓	
 LIGHTWEIGHT / EASY-TO-CUT	✓✓✓	✓	✓	✓✓✓
 LOW COST	✓	✓✓✓	✓✓	✓✓✓
 RIGID	✓✓	✓	✓✓✓	✓✓
 PROVIDES PRIVACY	✓	✓	✓✓	✓✓✓

# CORRAPOL® Stormroof® : Technical Data

The value and quality of a construction material is indicated by the standards which it meets. The tables below list the stringent international standards CORRAPOL® Stormroof® is expected to meet, which also has excellent fire resistant qualities. The CORRAPOL® Stormroof® resin has a softening point in excess of 120°C. Most products extruded in polycarbonate and tested to BS476 Pt7 achieve a class 1(Y) rating. The international results depicted in the chart below show just how high a rating CORRAPOL® Stormroof® has achieved worldwide. CORRAPOL® Stormroof® is less flammable and has a higher melting point than fibreglass, acrylic or PVC sheets.

## Flammability and Construction Standards

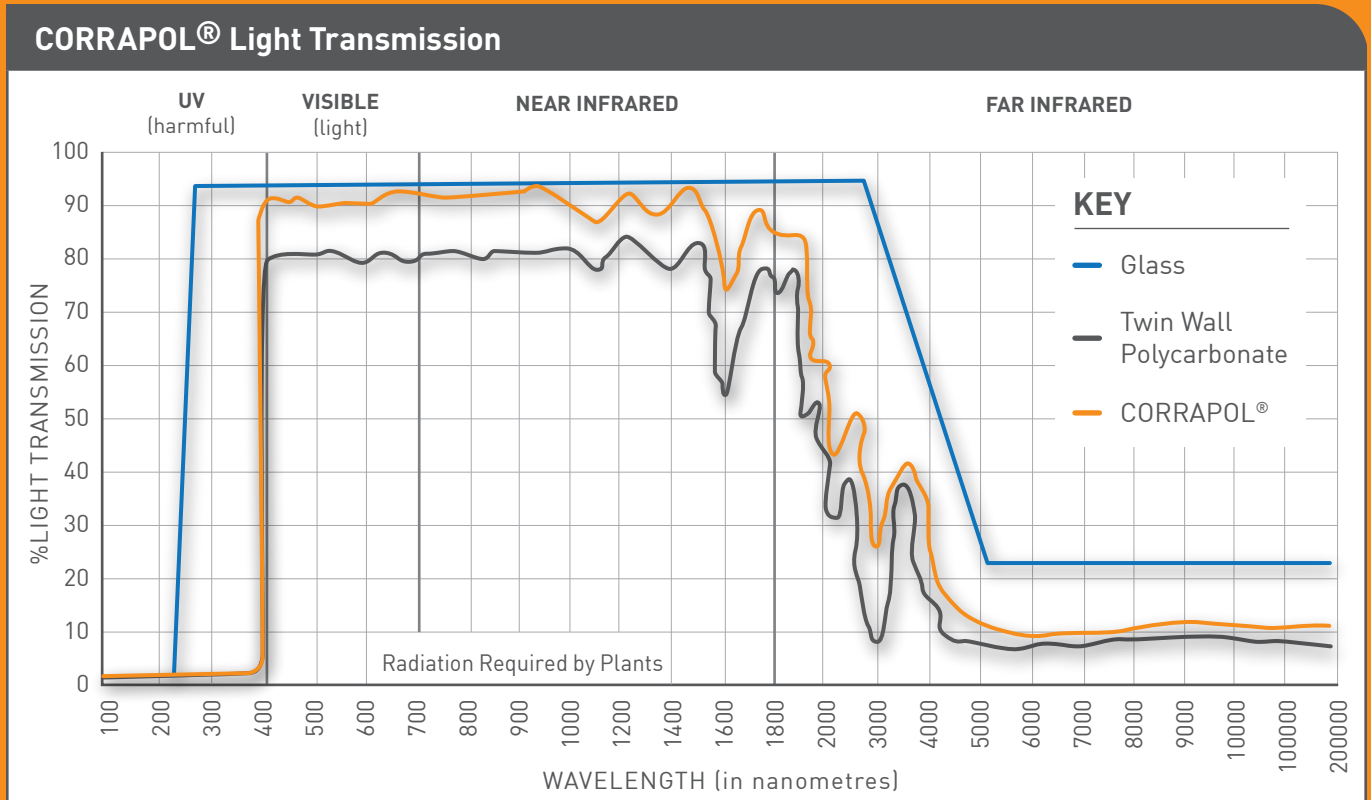
Standard	Country	CORRAPOL Thickness	Method	Designation or Rating
Flammability	France	0.8-1.0mm	NFP 92501 NFP 92504 NFP 92505	M-1
Flammability	Germany	0.8-1.0mm	DIN 4102	B-1
Flammability	Israel	0.8mm	I.S. 755	V 2 2
Flammability	Dade County FL-USA	0.8mm	ASTM D-1929	Meeting the South-Florida Building Code 806°F
			D-1929	1004°F
			D-635	45 Sec
			D-635	1.77 in
			E-84	6
			E-84	78
			D-638	[weathering]
Flammability	USA	0.8mm	UL: UL723	4.7 47.0
			ASTM D-1929	490°C @ 4:3min 530°C @ 2:15min
			ASTM D-635	3.0 cm/min 30[Burning rate]
Flammability	USA Los Angeles	0.8mm	Los Angeles Building Code	CC2 (Section 2603)
Hurricane Code	Dade County Florida, USA		AS2376-1980	Passed
Wind Load	Australia			Complies
Cyclonic Wind Load	Australia		AS 2424	Passed
Sandbag Impact testing	Australia		AS2424, AS 1562-3	Passed
TNO Hail Test	Netherlands		1999-CON-LBC/B7139/ JNE	Passed
TNO Load Test (Pressure)	Netherlands		1999-CON-LBC/B7157/ JNE	Passed

## Typical Properties

W	Property	Conditions	ASTM Method	Units-SI	Value
Physical	Density		D-1505	g/CM³	1.2
	Water absorption	24hr.@23°C	D-570	%	0.15
Mechanical	Tensile strength at yield	10mm/min	D-638	MPa	62
	Tensile strength at break	10mm/min	D-638	MPa	65
	Elongation at yield	10mm/min	D-638	%	7
	Elongation at break	10mm/min	D-638	%	>80
	Tensile modulus of elasticity	10mm/min	D-638	MPa	2,300
	Flexural modulus	1.3mm/min	D-790	MPa	1,890
	Flexural strength at yield	1.3mm/min	D-790	MPa	93
	Notch impact strength izod	23°C	D-256	J/m	800
	Notch impact strength	23°C	D-256	J/m	800
	Impact falling weight		ISO-663/1 <sup>a</sup>	J	50
	Rockwell hardness		D-785	R scale	118
Thermal	Long term service temperature			°C	-50 to +100
	Short term service temperature			°C	-50 to +120
	Heat deflection temperature	Load: 1.82 MPa	D-648	°C	135
	Vicat softening temperature	Load: 1kg	D-1525	°C	150
	Co-efficient of linear thermal expansion		D-696	10 <sup>-6</sup> cm/cm°C	6.5
	Thermal conductivity		C-177	W/m K	0.21
	Specific heat capacity		C-351	kJ/kg K	1.3
Optical	Haze		D-1003	%	<0.5
	Light transmission		D-1003	%	90
	Refractive index		D-542		1.57
	Yellowness index		D-1925		<1
Electrical	Dielectric constant	1kHz	D-150		2.6
		1MHz	D-150		2.4
	Dissipation factor	1kHz	D-150		0.005
		1MHz	D-150		0.02
	Dielectric strength short time	500 V/s	D-149	kV/mm	20
	Surface resistance	Ketley	D-257	Ohm	4.1x10 <sup>15</sup>
	Volume resistance	Ketley	D-257	Ohm-cm	1.7x10 <sup>17</sup>

## CORRAPOL® Stormroof® : Light Transmission

CORRAPOL® Stormroof® almost totally blocks harmful UV radiation whilst still allowing exceptional levels of visible light transmission. The graph below shows comparisons with other products.



# Other Ranges we Manufacture with Matching Corrugation

Please get in touch for more information about the many other products we manufacture.



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