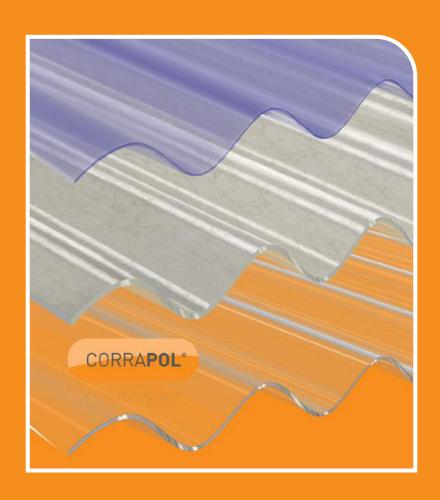


Clear Corrugated Sheet Ranges Technical Guide





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





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.



- √ 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:







✓ Porches

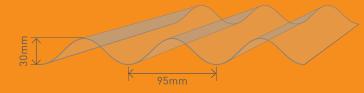
√ Greenhouses

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

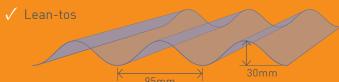
Whilst not as strong or as long lasting as the CORRAPOL® Stormroof® range, CORRAPOL®-PVC DIY Grade Sheets offer a lower cost and are ideal for areas where impact resistance is not important and also where direct sunlight is limited. In areas like this, the CORRAPOL®-PVC DIY Grade range provides an excellent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

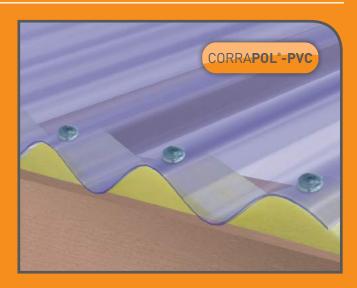
Key Benefits:

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

Common Uses:

✓ DIY Projects





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

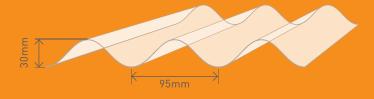
This type of CORRAPOL® provides excellent strength, similar to that of the CORRAPOL® STORMROOF® range, however the light transmission is lower due to the fibres in the resin mix. Where areas where direct sunlight is relatively low, the CORRAPOL®-GRP Translucent Sheets are an excellent solution with high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





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





Mill



White

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



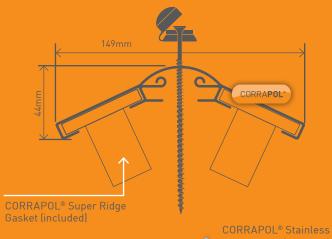


CORRAPOL®: Aluminium Super Ridge

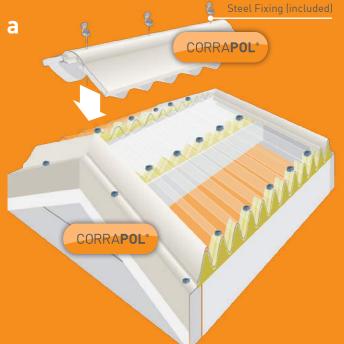
Manufactured in White and Mill finish this CORRAPOL® robust aluminium Super Ridge is another world first, including integrated pre-formed foam gaskets to fit the corrugations of the CORRAPOL® sheets. The patented design allows for a good variety of roof pitches with the gaskets being flexible enough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

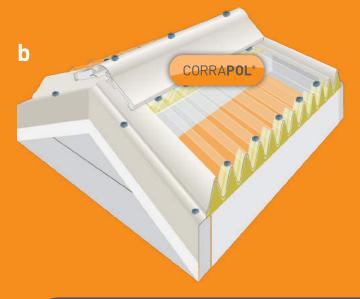
CORRAPOL®: Aluminium Ridge Bar	Code
CORRAPOL® Aluminium Ridge Bar Set 2m Mill	AC330M
CORRAPOL® Aluminium Ridge Bar Set 3m Mill	AC332M
CORRAPOL® Aluminium Ridge Bar Set 6m Mill	AC338M
CORRAPOL® Aluminium Ridge Bar Set 2m White	AC330WH
CORRAPOL® Aluminium Ridge Bar Set 3m White	AC332WH
CORRAPOL® Aluminium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













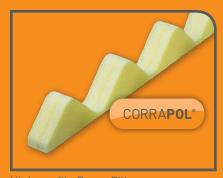
CORRAPOL®: Eaves Filler

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



Low-profile Eaves Filler



High-profile Eaves Filler

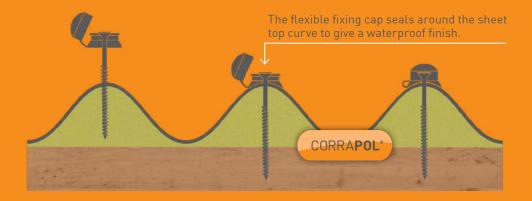
CORRAPOL®: Superior Flexible Fixings

The Superior CORRAPOL® flexible fixings provide enhanced sealing to the contours if 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	STORMR00F®	PVC	GRP	ВТ
various properties of the different CORRAPOL® and CORRAPOL®-BT ranges, allowing you to quickly assess the best product for your project.	CORRAPOL	CORRAPOL*-PVC	CORRAPOL*-GRP	CORRAPOL*-BT
LONG LIFE SPAN	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	√	√	√
MPACT RESISTANT	$\sqrt{\sqrt{}}$	√	√ √	√
W UV PROTECTED	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	√	√	√
& HIGH STRENGTH	$\sqrt{\sqrt{}}$	√	√	√
LIGHT TRANSMISSION	$\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$	√ √	√	
LIGHTWEIGHT / EASY-TO-CUT	$\sqrt{\sqrt{}}$	√	√	√√√
£ LOW COST	√	$\sqrt{\sqrt{}}$	√ √	$\sqrt{}$
RIGID	$\sqrt{}$	√	$\sqrt{}$	√ √
PROVIDES PRIVACY	√	√	//	$\sqrt{}$



CORRAPOL® Stormroof®: Technical Data

Method

Designation

3.0 cm/min

30(Burning

rate)

(Section 2603)

Passed

Complies

Passed

Passed

Passed

ASTM

D-635

Los Angeles

Building

Code

AS2376-

1980

AS 2424

AS2424, AS

1562-3 1999-CON-

LBC/B7139/ JNE 1999-CON-

LBC/B7157/

JNE

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

CORRAPOL

Country

USA

Los

Angeles

Dade

County

Florida, USA

Australia

Australia

Australia

Netherlands

Netherlands

Flammability

Hurricane Code

Wind Load

Cyclonic Wind Load

Sandbag

Impact testing

TNO Hail Test

Load Test

(Pressure)

Standard

		HIIICKIICSS		or Kathiy
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
			ASTM D-1929	Meeting the South- Florida Building Code 806°F
	Dade		D-1929	1004°F
Flammability	County FL-USA	0.8mm	D-635	45 Sec
	1 L 05A		D-635 1.77 in	1.77 in
			E-84	6
			E-84	78
			D-638	(weathering)
	lammability USA		UL: UL723	4.7 47.0
Flammability		0.8mm	ASTM D-1929	490°C @ 4:3min 530°C @ 2:15min

0.8mm

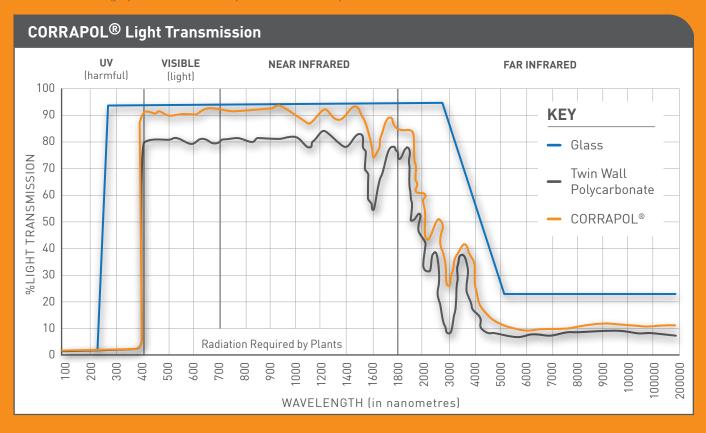
Typical Properties

w	Property	Conditions	ASTM	Units-SI	Value
			Method		
Physical	Density		D-1505	g/CM ³	1.2
	Water absorption	24hr.@23°C	D-570	%	0.15
	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 modus of elasticity	10mm/min	D-638	MPa	2,300
Mechanical	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- 663/1ª	J	50
	Rockwell hardness		D-785	R scale	118
	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
Thermal	Vicat softening temperature	Load: 1kg	D-1525	°C	150
	Co-efficiant of linear thermal expansion		D-696	10 ⁻⁵ cm/ cm°C	6.5
	Thermal conductivity		C-177	W/m K	0.21
	Specific heat capacity		C-351	kj/kg K	1.3
	Haze		D-1003	%	2,300 1,890 93 800 800 50 118 -50 to +100 -50 to +120 135 150 7 6.5
Optical	Light transmission		D-1003	%	90
Opticat	Refractive index		D-542		1.57
	Yellowness index		D-1925		<1
	Dieletric constant	1kHz	D-150		2.6
		1MHz	D-150		800 800 50 8118 -50 to +100 -50 to +120 135 150 / 6.5 3 0.21 3 <0.5 90 1.57 <1 2.6 2.4 0.005 0.02
	Dissipation factor	1kHz	D-150		0.005
Electrical		1MHz	D-150		0.02
	Dielectric strength short time	500 V/s	D-149	kV/mm	20
	Surface resistance	Ketley	D-257	0hm	4.1x10 ¹⁵
	Volume resistance	Ketley	D-257	0hm-cm	1.7x10 ¹⁷



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.



WARNING: REGISTERED DESIGNS & PATENTS

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