

TWINFIX

TRADE CATALOGUE

Roof Glazing and more...

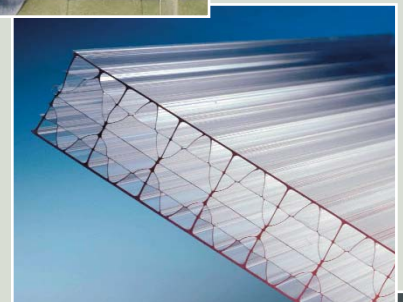
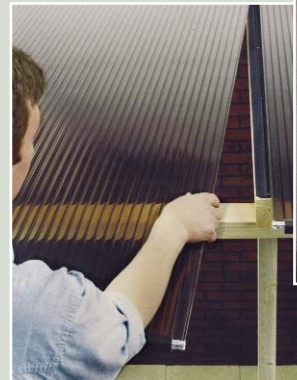
for Conservatories, Sun Lounges, Porches, Car Ports,
Smoking Shelters, Patio Covers, Canopies,
Northlights, Walkways, Roof Domes and Pyramids

Safety Glazing and more...

for Windows, Doors and Screens

Rain Screen Cladding and more...

for Soffits, Facias and Facades



Why You Should Use Twinfix Glazing Systems...

Twinfix are one of the UK's leading suppliers of glazing bar systems. All of our systems can accommodate multiwall polycarbonate as the glazing substrate, whilst most are also suitable for use with glass or solid polycarbonate. There is a Twinfix system for virtually every pitched roof glazing application. As well as self-supporting glazing bar systems, we offer rafter gasket systems, which you can use for glazing on to a variety of different structures – such as rafters or purlins. Also featured are our Glaze-Guard and Door-Guard safety glazing systems and solid polycarbonate. Every system is designed for use in a range of applications including conservatories, sun lounges, porches, car ports and canopies as well as more industrial roofing such as roof lights and commercial greenhouses.

Glazing material...

Lexan Thermoclear multiwall polycarbonate sheet offers remarkable impact resistance, high levels of light transmission and long-term weather durability. In addition, it has excellent heat insulation characteristics which offer further cost savings by conserving energy. As well as clear, Lexan Thermoclear can also be supplied in opal and bronze tints and a speciality grade, Venetian, is also available for use where levels of light transmission and/or solar heat gain need to be restricted.



Glazing bars...

There is a Twinfix glazing bar for nearly all pitched roof glazing applications. If you want to utilise existing or new wooden rafters we recommend our rafter gasket systems. Alternatively, choose a structural bar system if you want the glazing bars to support the roof.

Fixing accessories...

In addition to the glazing bars, Twinfix also supplies a wide range of easy to use fixing and finishing accessories. These are designed for installing multiwall polycarbonate and glass in pitched roofs.

Design...

Designing a roof is simplicity itself when you follow our guidelines. Just answer a few easy questions and our instructions will point you in the right direction, ensuring you end up with the roof you want. Fixing instructions are available for all of the Twinfix systems.

Cut to size...

Cutting multiwall polycarbonate on site is not difficult but it can be messy. Dirt and dust can sometimes become trapped in the flutes of the sheet. This must never be removed by forcing water down the flutes, as it can lead to moisture and eventually to fungal growths within the sheet itself.

At Twinfix we will cut your sheet to your exact requirements under factory controlled conditions. The multiwall sheets are then blown out to remove any dust or swarf and the edges are immediately taped and sealed against the future ingress of dirt and dust.

Price...

We believe our multiwall polycarbonate sheet, aluminium glazing bars and fixings to be most competitively priced in today's market. We do not surrender quality in favour of price and we guarantee you a quality roof at a value for money price.

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What Type of Roof..?

Once you have decided to use Lexan Thermoclear multiwall polycarbonate sheet on the roof, your next question is 'What type of glazing system should I use?' You have the choice of either a Twinfix rafter gasket system or a Twinfix structural bar system.

Supply...

All products featured in this catalogue should be handled with care. We always try to deliver your goods on our own specially designed vehicles. Collection from our premises at Warrington can also be arranged although we do ask that you order your goods prior to collection so that we can have everything ready. Our sales office will advise you as to what notice needs to be given to prepare your order ready for collection.

Advice...

We believe in giving you relevant advice before you place your order to make sure you choose the correct system. We will provide useful and sound information on how to build your roof. Fixing instructions are available for all of the Twinfix systems.



Samples...

We know how important it is to see and feel samples of both the glazing bar and the sheet before you buy. Contact our sales office with your requirements and we will send your free samples to you immediately.

Quotations...

We are only too pleased to send you a quotation for any combination of items from this brochure. We will write the quotation in such a way that you know exactly what you are buying from us and how each component is used on a roof.

Rafter Gasket Systems...

You may have timber rafters already in place or intend to install new rafters. Either way, a Twinfix rafter gasket system is for you. There are a number of systems which can be fitted onto 50mm or 60mm wide rafters. You should always refer to the recommended distances of glazing bar centres and will need to be aware of sheet expansion allowances. Our rafter gasket systems include the 226/261

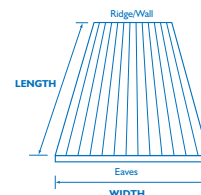
system, the 320/261 system and the 500/501 system and are described on pages 10-11.

Structural Bar Systems...

If you want to use few or no rafters or would prefer a system that can be fixed onto a purlin supported structure then you should select a Twinfix structural bar system. There are a number of systems, some of which have spanning capabilities up to 4 metres. You should always refer to the recommended distances of glazing bar centres and will need to be aware of sheet expansion allowances. Our structural systems include the 226/227 system, the 280/283/284 system, the 320/286 system, the 280/282 system and the 600 system and are described on pages 12-15.

Your guide to measuring

Note: Flute should always run the length of the sheet



TWINFIX BAR SYSTEMS TECHNICAL DATA

System Ref.	Rafter Gasket System	Structural Bar System	To suit Rafter Width	Aluminium Cap	PVCu Cap	TPR Rafter Gasket	Aluminium Base	PVCu Underclad
226/261	yes	no	60mm	yes	no	yes	no	no
320/261	yes	no	60mm	yes	no	yes	no	no
500/501	yes	no	50mm	yes	no	yes	no	no
226/227	no	yes	n/a	yes	no	no	yes	no
320/286/284	no	yes	n/a	yes	no	no	yes	yes
280/283	no	yes	n/a	yes	no	no	yes	no
280/283/284	no	yes	n/a	yes	no	no	yes	yes
280/288	no	yes	n/a	yes	no	no	yes	no
280/288/284	no	yes	n/a	yes	no	no	yes	yes
600	no	yes	n/a	no	yes	no	yes	yes

RAFTER ASSEMBLY



STRUCTURAL BAR ASSEMBLY



How Much Will It Cost To Glaze Your Roof ...

GLAZING ON TO RAFTERS

The prices below give you an idea of just how much the products will cost for your roof. These prices are based on glazing onto timber rafters with the Twifix rafter gasket system. Just measure your roof and read from the next size up on the chart. The price includes multiwall polycarbonate sheet, glazing bars, F profile side trims, U profile end closures, eaves filler and screws.

Prices do not include delivery charge and are exclusive of VAT.

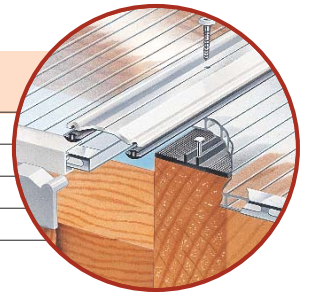
Using the 261 Rafter System

Incorporating 16mm polycarbonate/P261 rafter gasket system/223 F profile/253 U profile/P226F eaves filler and screws. For glazing onto rafters of minimum 60mm wide.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	213.70	266.05	266.05	336.25	336.25	415.60	415.60	498.60	498.60
2.5m	248.00	322.70	322.70	404.50	404.50	506.25	506.25	600.85	600.85
3.0m	271.20	357.55	357.55	450.90	450.90	564.30	564.30	670.50	670.50
3.5m	303.20	413.45	413.45	523.60	523.60	653.70	653.70	776.65	776.65

* Projection means length of sheet and bar down the slope.



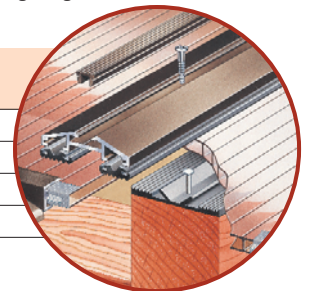
Using the 320 Rafter System

Incorporating 16mm polycarbonate/P320 rafter gasket system/273 side trim/253 U profile/P226F eaves filler and screws. For glazing onto rafters of minimum 60mm wide.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	216.00	271.40	271.40	348.85	348.85	431.30	431.30	521.60	521.60
2.5m	250.25	332.25	332.25	421.30	421.30	533.30	533.30	632.20	632.20
3.0m	273.50	367.10	367.10	467.70	467.70	588.35	588.35	701.80	701.80
3.5m	314.90	427.55	427.55	547.20	547.20	686.90	686.90	819.40	819.40

* Projection means length of sheet and bar down the slope.



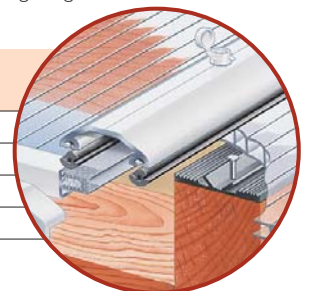
Using the 500 Rafter System

Incorporating 10mm polycarbonate/P501 rafter gasket system/222 F profile/252 U profile/P226F eaves filler and screws. For glazing onto rafters of minimum 50mm wide.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	186.15	212.65	237.45	255.30	285.95	344.45	361.85	380.05	408.65
2.5m	221.05	250.70	288.75	309.25	350.10	397.75	435.80	478.15	525.50
3.0m	236.80	269.35	312.05	335.50	381.60	430.40	473.15	520.15	572.70
3.5m	273.20	313.65	336.00	392.35	448.70	503.65	556.00	607.70	650.95

* Projection means length of sheet and bar down the slope.



GLAZING WITH STRUCTURAL BARS

The prices below give you an idea of just how much the products will cost for your roof. These prices are based on fixing a Twinfix structural system onto an existing structure. Just measure your roof and read from the next size up on the chart. The price includes multiwall polycarbonate sheet, glazing bars, side trims, U profile end closures, eaves filler and screws to secure cap to base, if required.

The wall plate and eaves beam are not included but can be supplied.

Prices do not include delivery charge and are exclusive of VAT.

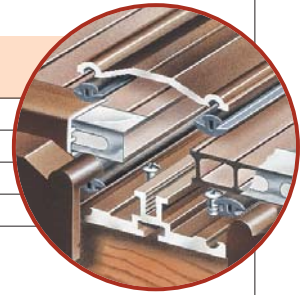
Using the 227 Structural System

Incorporating 16mm polycarbonate/P227 structural system/273 side trim profile/253 U profile/P226F eaves filler and screws.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	253.60	310.35	310.35	394.25	394.25	478.05	478.05	574.80	574.80
2.5m	305.80	394.25	394.25	489.75	498.75	605.25	605.25	713.60	713.60
3.0m	329.00	429.10	429.10	536.20	536.20	663.30	663.30	783.25	783.25
3.5m	389.45	510.65	510.65	638.90	638.90	787.15	787.15	908.35	908.35

* Projection means length of sheet and bar down the slope.



Using the 280 and 284 Structural Systems

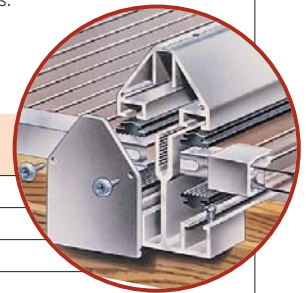
Incorporating 16mm polycarbonate/P280 structural system/273 side trim profile/253 U profile/P285F eaves filler and screws.

The P284 system is the same price as the P280, the difference in the system being the P284 has a PVCu thermal underclad supplied and the 283 base bar is a mill finish as it is cloaked by the underclad.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	328.35	397.35	397.35	510.70	510.70	609.65	609.65	755.25	755.25
2.5m	398.40	516.65	516.65	641.95	641.95	767.20	767.20	928.55	928.55
3.0m	421.60	551.45	551.45	688.35	688.35	825.25	825.25	998.20	998.20
3.5m	510.80	671.40	671.40	839.05	839.05	1006.70	1006.70	1187.15	1187.15

* Projection means length of sheet and bar down the slope.



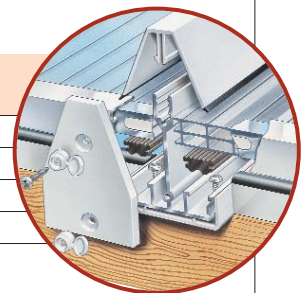
Using the 600 Structural System

Incorporating 16mm polycarbonate/P600 structural system/601 side trim profile/253 U profile and P285F eaves filler.

Selling List Price - £ Per Roof

Length	2.0m	2.5m	3.0m	3.5m	4.0m	4.5m	5.0m	5.5m	6.0m
Projection*									
2.0m	225.00	293.85	293.85	378.25	378.25	477.40	477.40	593.70	593.70
2.5m	233.00	310.40	310.40	394.80	394.80	502.45	502.45	618.80	618.80
3.0m	296.30	404.75	404.75	520.25	520.25	635.75	635.75	764.05	764.05
3.5m	334.50	459.05	459.05	590.65	590.65	738.40	738.40	882.80	882.80

* Projection means length of sheet and bar down the slope.



About Lexan Thermoclear Multiwall Polycarbonate Sheet...

Lexan Thermoclear multiwall polycarbonate sheet is a damage resistant, insulating glazing material manufactured in twinwall, triplewall and sixwall structures. Its unique multiwall construction creates an airspace in the internal channels giving superior insulating values which can be up to 50% better than single layer glass. The hollow lightweight structure offers an ideal stiffness to weight and cost ratio, dispensing with the need for heavy and expensive supporting structures often associated with other glazing materials.



Impact resistance

Despite its light weight, Lexan Thermoclear is 200 times stronger than glass. It is virtually unbreakable and can withstand heavy storms, hailstones and snow.



Weathering capabilities

Lexan Thermoclear has a surface treatment on both sides that forms a barrier against the degrading effects of UV. This means that Lexan Thermoclear (unlike some other competitive brands) can be glazed 'either way up' and will give superior resistance against ageing without affecting its mechanical and impact properties.



Fire performance

Lexan Thermoclear is self extinguishing and complies with many European standards including BS476 Part 7 and Part 6.



Handling

As with other glazing materials, care must be taken when handling and installing multiwall polycarbonate sheet in order to prevent damage. Each sheet is protected on both sides with a masking film. The film should remain on until installation. You should never use a craft knife to remove the film as this may damage the sheet. Lexan Thermoclear sheet should be cleaned with warm, soapy water; never use abrasive detergents.



Lightweight

The hollow structure of Lexan Thermoclear means it is much lighter in

weight compared with glass. This means that glazing centres can be extended, leading to less glazing bars.

6mm twinwall sheet: 1.3Kg per sqm

10mm twinwall sheet: 1.7Kg per sqm

16mm triplewall sheet: 2.7Kg per sqm

25mm sixwall sheet: 3.5Kg per sqm



Colour choice

Lexan Thermoclear multiwall polycarbonate sheet can be supplied in clear, opal or bronze tints or in a patterned grade, Venetian. Based on 16mm triplewall sheet, the light transmissions read as below:

Clear: 76%

Opal: 48%

Bronze: 35%

Venetian: 33%



Thermal insulation

Because of its unique multiwall construction, Lexan Thermoclear provides excellent thermal insulation when compared with glass. This can result in massive energy savings.

6mm twinwall sheet: 3.5 W/m² K

10mm twinwall sheet: 3.0 W/m² K

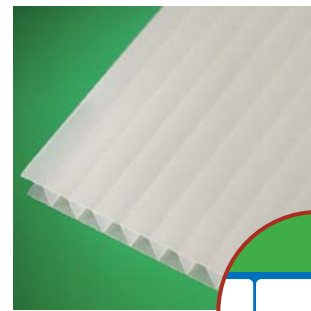
16mm triplewall sheet: 2.4 W/m² K

25mm sixwall sheet: 1.5 W/m² K

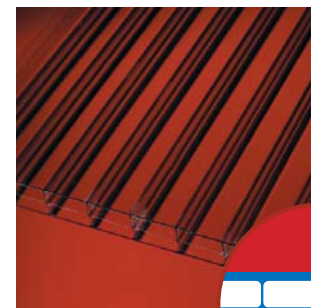


Cutting

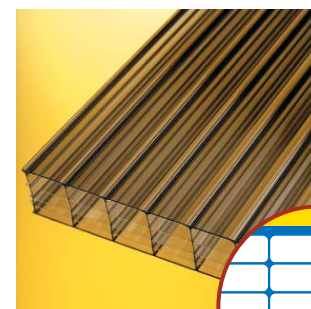
Cutting multiwall polycarbonate to length or to shape is not difficult and can be carried out using ordinary circular saws and handsaws. However, to save you time, we will cut your sheet to size. After removing all dirt and dust from the flutes we will tape the flutes at the ridge end with a blanking tape (colour white) and with an anti-dust breather tape (colour grey) at the eaves.



10mm
Twinwall



16mm
Triplewall



25mm
Sixwall

6mm TWINWALL

	Width (mm)
Length	2100
3.0m	71.80
6.0m	143.55

Only available in translucent clear

10mm TWINWALL

Cut to size: Multiwall polycarbonate can be cut to any size at no extra cost to you. Simply take your next size up on the price list. For example, if you need a 2.4m length with a width of 670mm, you will be charged for a sheet size of 2.5m x 695mm. The recommended sheet span, i.e. the maximum distance between bar centres, without using purlins is 700mm on 10mm Twinwall sheet. U value = 3.0

	Width (mm)				
Length	620mm	695mm	1045mm	1250mm	2100mm
Tint	Clear/Colour	Clear/Colour	Clear/Colour	Clear/Colour	Clear/Colour
1.0m	9.40	10.50	15.75	18.75	31.50
1.5m	14.10	15.75	23.65	28.15	47.25
2.0m	18.75	21.00	31.50	37.50	63.00
2.5m	23.45	26.25	39.40	46.90	78.75
3.0m	28.15	31.50	47.25	56.25	94.50
3.5m	32.85	36.75	55.15	65.65	110.25
4.0m	37.50	42.00	63.00	75.00	126.00
5.0m	46.90	52.50	78.75	93.75	157.50
6.0m	56.25	63.00	94.50	112.50	189.00
7.0m	65.65	73.50	110.25	N/A	220.50

Colour Availability: Bronze (35% light transmission) Opal (48% light transmission) Clear (81% light transmission)

16mm TRIPLEWALL

Cut to size: Multiwall polycarbonate can be cut to any size at no extra cost to you. Simply take your next size up on the price list. For example, if you need a 2.4m length with a width of 965mm, you will be charged for a sheet size of 2.5m x 980mm. The recommended sheet span, i.e. the maximum distance between bar centres, without using purlins is 1000mm on 16mm Triplewall sheet. U value = 2.4

	Width (mm)						
Length	620mm	695mm	980mm	980mm	980mm	1250mm	2100mm
Tint	Clear	Clear	Colour	Venetian	Clear/Colour	Clear/Colour	Clear/Colour
1.0m	14.85	16.60	23.25	40.50	24.90	29.65	49.80
1.5m	22.25	24.90	34.85	60.70	37.35	44.45	74.65
2.0m	29.65	33.20	46.45	80.95	49.80	59.25	99.55
2.5m	37.05	41.50	58.10	101.15	62.25	74.10	124.45
3.0m	44.45	49.80	69.70	121.40	74.65	88.90	149.30
3.5m	51.85	58.10	81.30	141.60	87.10	103.70	174.20
4.0m	59.25	66.40	92.90	161.85	99.55	118.50	199.10
5.0m	74.10	82.95	116.15	203.30	124.45	148.15	248.85
6.0m	88.90	99.55	139.35	242.75	149.30	177.75	298.60
7.0m	103.70	116.15	162.60	283.20	174.20	207.40	348.40

Colour Availability: Bronze (35% light transmission) Opal (48% light transmission) Venetian (33% light transmission) Clear (76% light transmission)

25mm SIXWALL

Cut to size: Multiwall polycarbonate can be cut to any size at no extra cost to you. Simply take your next size up on the price list. For example, if you need a 2.4m length with a width of 965mm, you will be charged for a sheet size of 2.5m x 1045mm. The recommended sheet span, i.e. the maximum distance between bar centres, without using purlins is 1250mm on 25mm Sixwall sheet. U value = 1.5

	Width (mm)						
Length	620mm	695mm	1045mm	1045mm	1250mm	2100mm	2100mm
Tint	Clear/Colour	Clear/Colour	Clear/Colour	Venetian	Clear/Colour	Clear/Colour	Venetian
1.0m	19.75	22.15	33.20	54.20	39.50	66.40	108.40
1.5m	29.65	33.20	49.80	81.30	59.25	99.55	162.55
2.0m	39.50	44.25	66.40	108.40	79.00	132.75	216.75
2.5m	49.40	55.30	82.95	135.40	98.75	165.90	270.90
3.0m	59.25	66.40	99.55	162.55	118.50	199.10	325.10
3.5m	69.15	77.45	116.15	189.65	138.25	232.25	379.75
4.0m	79.00	88.50	132.75	216.75	158.00	265.45	433.45
5.0m	98.75	110.60	165.90	N/A	197.50	331.80	N/A
6.0m	118.50	132.75	199.10	325.10	237.00	398.15	650.15
7.0m	138.25	154.85	232.25	N/A	276.50	464.50	N/A

Colour Availability: Bronze (23% light transmission) Opal (24% light transmission) Venetian (28% light transmission) Clear (44% light transmission)

About Glazing Systems...

There is a Twinfix glazing bar system for virtually all pitched roof glazing applications. When it comes to building virtually any type of roof, choose from our cross section of fixing accessories and complementary items to give a totally professional finish to your glazing. Whilst these systems are designed primarily for the easy installation of multiwall polycarbonate sheet glazing, many of them will also accommodate solid polycarbonate and glass.

When installing multiwall sheet we strongly advise that you follow our guidelines in relation to the ratio between sheet thickness and width, the distance for glazing centres and sheet expansion allowances. All our aluminium bars and extrusions are manufactured to BS1474: 1987 and BS6063. Each coloured bar is polyester powder

coated for a maintenance free long life. We recommend the use of stainless steel screws and bolts as other metals may fail through natural chemical reaction with aluminium. Such screws are available in the Twinfix range and they come complete with matching coloured snap on plastic caps. To avoid stress in the glazing sheet you should

not overtighten the screw-on bars and accessories.

Please contact the sales office if glass is being used instead of multiwall polycarbonate as mechanical end plates should always be used in these circumstances.

GLAZING BAR PACKS

System	226/261	320/261	500/501	226/227	280/283	280/3/4	280/288	280/288/284	320/286	600
Description	Rafter System	Rafter System	Rafter System	Structural System	Structural System	Structural System	Structural System	Structural System with Underclad	Structural System	Structural System with Underclad
Suitable for multiwall sheet thickness	Up to 25mm	Up to 25mm	Up to 10mm	Up to 25mm	Up to 25mm	Up to 25mm	25mm	25mm	Up to 25mm	16mm to 25mm
Pre-Pack Ref.	P261	P320	P501	P227	P280	P284	P288	P288U	P286	P600
Rafter Gasket	261	261	501	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Aluminium Base Bar	n/a	n/a	n/a	227	283	283	288	288	286	600
Aluminium Cap Bar	226	320	500	226	280	280	280	280	320	n/a
PVCu Snap Fit	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	600
Capping Bar										
Stop End Plate*	226EP	320EP	500EP	226EP	280EP	280EP	MEP	MEP	320EP	600EP
PVCu Underclad	n/a	n/a	n/a	n/a	n/a	284	n/a	284	n/a	284
Glazing Bar Gasket	226G	226G	226G	226G	280G	280G	280G	280G	280G	280G
Screw Cover Clip	n/a	400C	n/a	n/a	n/a	n/a	n/a	n/a	400C	n/a

COMPLEMENTARY ITEMS

System	226/261	320/261	500/501	226/227	280/283	280/3/4	280/288	280/288/284	320/286	600
Side Trim	272/3/4/5	272/3/4/5	272	272/3/4/5	272/3/4/5	272/3/4/5	275	275	272/3/4/5	601/602
F Profile	222/3/4/5	222/3/4/5	222	222/3/4/5	n/a	n/a	n/a	n/a	n/a	n/a
U Profile	252/3/4/5	252/3/4/5	252	252/3/4/5	252/3/4/5	252/3/4/5	255	255	252/3/4/5	253/4/5
Eaves Filler	P226F	P226F	P226F	P226F	P285F	P285F	P285F	P285F	P285F	P285F
Butyl Flashing	200/10	200/10	200/10	200/10	200/10	200/10	200/10	200/10	200/10	200/10
Fixing Button	244/5/7/8	244/5/7/8	244/7	244/5/7/8	244/5/7/8	244/5/7/8	n/a	n/a	244/5/7/8	245/8
Anti-Dust Tape	ADT10/ 16/25	ADT10/ 16/25	ADT10	ADT10/ 16/25	ADT10/ 16/25	ADT10/ 16/25	ADT25	ADT25	ADT10/ 16/25	ADT16/ 25
Blanking Tape	BT10/ 16/25	BT10/ 16/25	BT10	BT10/ 16/25	BT10/ 16/25	BT10/ 16/25	BT25	BT25	BT10/ 16/25	BT16/ 25

TECHNICAL DATA

System	226/261	320/261	500/501	226/227	280/283	280/3/4	280/288	280/288/284	320/286	600
Spans Unsupported	n/a	n/a	n/a	1.4m	3.2m	3.2m	4.0m	4.0m	1.5m	3.0m
Glazing centres**	1m	1m	0.7m	1m	1m	1m	1.25m	1.25m	1m	1m
Max. Distance for Nailing Rafter Gasket Down	300mm	300mm	300mm	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. Distance for Screwing Cap Down	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	300mm	n/a

* When glazing with glass we recommend using a Twinfix mechanically fixed end plate.

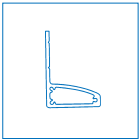
** This information is based on using 16mm multiwall sheet, except for the 500 system where 10mm multiwall sheet is used and the 288 system where 25mm multiwall sheet is used.

About Our Bar Support Systems...



The Twinfix range includes a wall plate and eaves beam designed for use with all Twinfix bar systems.

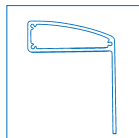
ALUMINIUM 290 WALL PLATE



The 290 wall plate is a support structure which can be used with all the Twinfix glazing bar systems. Its simple design allows you to position glazing bars at pitch angles ranging from 5° to 25°. The complementary eaves beam will also support glazing bar systems at similar pitch angles. End plates are supplied for both the wall plate and the eaves beam. These give a neat finish and fixing screws are included.

Reference	Colour	4.0m	6.0m
290	Mill	40.25	61.90
	White	48.50	74.60
	Brown	50.45	77.50

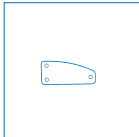
ALUMINIUM 291 EAVES BEAM



This general purpose eaves beam will support all Twinfix bar systems at angles ranging from 5° to 25°. Can be used in conjunction with the 290 wall plate.

Reference	Colour	4.0m	6.0m
291	Mill	61.55	94.45
	White	72.15	111.00
	Brown	77.50	114.85

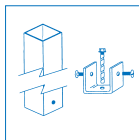
WALL PLATE/EAVES BEAM END PLATES



Provide a neat finish to the wall plate and eaves beam.

Reference	To Suit	Colour	Per Pair
290EP	Wall Plate	Mill	5.65
		White	8.95
		Brown	9.45
291EP	Eaves Beam	Mill	7.45
		White	10.30
		Brown	10.65

ALUMINIUM POSTS AND FIXING ASSEMBLY



Aluminium posts are drilled with 4 holes at the top end and come supplied with fixing bracket, bolt and screws.

Reference	Colour	3.0m
Post	Mill	83.25
	White	106.90
	Brown	119.00

POST PROTECTORS



Placed round the posts of a canopy in school playgrounds, these protectors prevent children from harming themselves when bumping into aluminium posts. PVC wipe down outer, available in a range of colours – filled with high density foam.

Prices available on request



All prices are £/sheet/pack/item and are exclusive of VAT

About Our Rafter Gasket Systems...



If you want to fix multiwall polycarbonate or glass onto a framework of timber rafters, then you need to use one of our rafter gasket glazing systems.

Glazing with polycarbonate, which width of rafter?...

When planning your roof, you need to make the correct decision as to the width of your rafter. If you intend to use 16mm or thicker polycarbonate on your roof then you really ought to be installing a 60mm wide rafter. This means you would use our P261 or P320 glazing systems. However a 10mm twinwall polycarbonate can be fitted on to 50mm wide rafters using our P501 glazing system. This is based on the distance between the flutes on a sheet of polycarbonate and also on the fact that polycarbonate expands and contracts as the temperature changes. Our glazing systems are all designed to ensure that the polycarbonate is clamped securely in place.

Sometimes it is less expensive to glaze with 16mm triplewall polycarbonate than with 10mm twinwall, as 16mm can be glazed in wider panels, and therefore needs less glazing bays and fewer glazing bars.

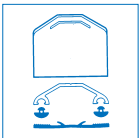


Glazing with glass, which width of rafter?...

Because glass does not expand and contract like multiwall polycarbonate you can glaze on 50mm wide rafters with our P501 glazing system. **Always remember, glass is much heavier than multiwall polycarbonate and should always be held in place by fitting a mechanical end plate at the end of each rafter.**

If glazing onto 50mm rafters...

P501 RAFTER GASKET SYSTEM

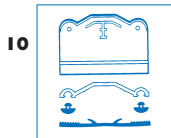


The P501 rafter gasket glazing system is used to install 10mm thick multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm onto 50mm wide rafters. The convenient pre-packed bar set comprises a TPR rafter gasket, an aluminium cap with gasket fitted and a push fit end plate. If glass is the preferred glazing material then remember to fit a mechanical end plate at the end of each rafter.

Reference	Applications	Colour	3.0m	4.0m
P501	Lean-to Roofs	White	14.55	19.55
P501		Brown	15.00	19.95

If you have 60mm rafters...

P261 RAFTER GASKET SYSTEM

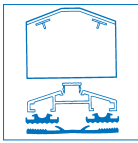


The P261 rafter gasket glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm onto rafters at least 60mm in width. The convenient pre-packed bar set comprises a TPR rafter gasket, an aluminium cap with gasket fitted and a push fit end plate. The bar cap can also be supplied in a hip version to suit shaped conservatories.

Reference	Applications	Colour	2.5m	3.0m	3.5m	4.0m
P261	Lean-to Roofs	Mill	n/a	14.70	n/a	19.65
P261		White	13.80	16.65	19.45	21.80
P261		Brown	n/a	17.20	n/a	22.45
P261H	Shaped Roofs	Mill	n/a	17.40	n/a	23.20
P261H		White	n/a	20.45	n/a	26.65
P261H		Brown	n/a	21.80	n/a	28.30

Also available in a 6 metre length but supplied as loose items rather than as a pre-pack

P320 RAFTER GASKET SYSTEM



The P320 rafter gasket glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm onto rafters at least 60mm in width. The convenient pre-packed bar set comprises a TPR rafter gasket, an aluminium cap with gasket fitted and a screw fit end plate. The system differs from the P261 in that the screws needed to secure the cap to the rafter are fixed through a central channel in the cap which is covered and protected by a push fit screw cover clip. The gasket can also be supplied in a half round version to suit shaped conservatories.

Reference	Applications	Colour	3.0m	4.0m
P320	Lean-to Roofs	White	23.95	31.30
P320		Brown	24.65	32.40
P320H	Shaped Roofs	White	28.40	37.25
P320H		Brown	29.25	38.40

Also available in a 6 metre length but supplied as loose items rather than as a pre-pack



What happens at the sides of my roof?...

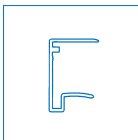


When glazing with multiwall polycarbonate, start and finish your roof with an F profile side trim. The polycarbonate fits in to the two arms of the F whilst fixing is made through the longer leg of the F into the side of the roof. If glazing against a wall simply turn the F upside down, fix into the wall and flash over. If you are glazing with glass rather than polycarbonate in 10mm, 16mm or 25mm then again an F profile can be used. If your glass is a different thickness altogether then start and finish with a glazing bar and fit a fillet of the same thickness as your glass in the other side and flash over.

Reference	To Suit	Colour	3.0m	4.0m
222	10mm	Mill	12.20	15.20
		White	16.00	21.35
		Brown	16.80	22.35
223	16mm	Mill	12.25	16.50
		White	16.45	21.90
		Brown	17.10	22.75
225	25mm	Mill	n/a	19.25
		White	n/a	25.15
		Brown	n/a	26.30



What happens at the ends of my roof?...



When we supply you with multiwall polycarbonate, we always cut the panel to the size you ask for and blow the flutes free of dust. We then tape the flutes with a blanking tape at the top end and with an anti-dust tape at the eaves end. To protect the flutes you should fit an aluminium U profile over the flutes between the glazing bars. We recommend U profiles at the top and bottom end of the sheet. You don't need U profiles if glazing with glass, however they do give a nice decorative finish to your panels so why not use them?

Reference	To Suit	Colour	2.5m	3.0m
252	10mm	Mill	n/a	4.60
		White	n/a	6.45
		Brown	n/a	7.30
253	16mm	Mill	n/a	5.20
		White	n/a	7.00
		Brown	n/a	7.85
254	20mm	Mill	3.90	n/a
		White	5.45	n/a
		Brown	6.10	n/a
255	25mm	Mill	6.35	n/a
		White	9.40	n/a
		Brown	9.95	n/a

MECHANICAL END PLATES



Used at the end of a rafter, only needed when glazing with glass.

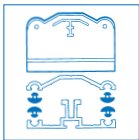
Reference	For Glazing	Colour	Each
RG-MEP	Onto Rafters	Mill	4.25
		White	4.25
		Brown	4.25

About Our Screw Down Structural Bar Systems...



If you want to fix multiwall polycarbonate or glass without using rafters or perhaps even without purlins, then you need to use one of our structural glazing bar systems.

P227 STRUCTURAL GLAZING BAR SYSTEM – SHORT SPAN



The P227 structural glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm. When glazed with multiwall polycarbonate the P227 system will span up to 1400mm so is ideal either for short span requirements or for applications where purlins are installed. The convenient pre-packed bar set comprises an aluminium cap and base with gasket fitted and a push fit end plate. The bar cap can also be supplied in a hip version to suit shaped conservatories.

Reference	Applications	Colour	2.5m	3.0m	3.5m	4.0m
P227	Lean-to Roofs	Mill	n/a	26.95	n/a	36.00
P227		White	25.30	30.30	35.40	39.90
P227		Brown	n/a	31.40	n/a	41.45
P227H	Shaped Roofs	Mill	n/a	29.05	n/a	38.75
P227H		White	n/a	34.20	n/a	44.80
P227H		Brown	n/a	36.00	n/a	47.20

Also available in a 6 metre length but supplied as loose items rather than as a pre-pack

P286 STRUCTURAL GLAZING BAR SYSTEM – SHORT SPAN



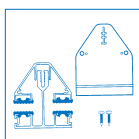
The P286 structural glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm. The P286 system will span up to 1500mm when glazed with multiwall polycarbonate. The convenient pre-packed bar set comprises an aluminium cap and base with gasket fitted, a screw cover clip and a screw fit end plate. The gasket in the cap and base can also be supplied in a half round version to suit shaped conservatories. Screws are fixed through a central channel in the cap which is subsequently covered and protected with the screw cover clip.

Reference	Applications	Colour	3.0m	4.0m
P286	Lean-to Roofs	White	46.55	61.55
P286		Brown	48.20	63.50
P286H	Shaped Roofs	White	55.45	73.45
P286H		Brown	57.15	75.50



Also available in a 6 metre length but supplied as loose items rather than as a pre-pack

P280 STRUCTURAL GLAZING BAR SYSTEM – MEDIUM SPAN



The P280 structural glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm. When glazed with multiwall polycarbonate the P280 system will span up to 3200mm. The convenient pre-packed bar set comprises an aluminium cap and base with gasket fitted and a screw fit end plate. The gasket in the cap and base can also be supplied in a half round version to suit shaped conservatories. This system is supplied without a PVCu thermal underclad so should be used on canopies, if the application is one with enclosed sides then the P284 system should be used.

Reference	Applications	Colour	3.0m	4.0m
P280	Lean-to Roofs	Mill	49.90	66.45
P280		White	60.15	79.30
P280		Brown	61.90	81.65
P280H	Shaped Roofs	Mill	58.75	78.30
P280H		White	69.15	91.25
P280H		Brown	70.75	93.55

Also available in a 6 metre length but supplied as loose items rather than as a pre-pack

P284 STRUCTURAL GLAZING BAR SYSTEM – MEDIUM SPAN



The P284 structural glazing system is used to install multiwall polycarbonate or glass in thicknesses ranging from 4mm to 25mm. When glazed with multiwall polycarbonate the P284 system will span up to 3200mm. The convenient pre-packed bar set comprises an aluminium cap and base with gasket fitted, a PVCu thermal underclad and a screw fit end plate. The gasket in the cap and base can also be supplied in a half round version to suit shaped conservatories. As the system is supplied with a PVCu thermal underclad, it is suitable for an application with closed sides such as a conservatory. If the application is one without closed sides, such as a canopy, then the P280 system should be used.

Reference	Applications	Colour	3.0m	4.0m
P284	Lean-to Roofs	White	60.15	79.30
P284		Brown	61.90	81.65
P284H	Shaped Roofs	White	69.15	91.25
P284H		Brown	70.75	93.55

Also available in a 6 metre length but supplied as loose items rather than as a pre-pack

P288 STRUCTURAL GLAZING BAR SYSTEM – LONG SPAN



The P288 system is designed to be used with 25mm polycarbonate or 24mm glass units. When glazed with multiwall polycarbonate the P288 system will span up to 4000mm (1250mm centres). A 2600mm span can be expected when glazing with 24mm glass units at 600mm centres. This system is supplied without a PVCu thermal underclad so should be used on canopies. If the application is one with enclosed sides then the P288U system should be used.

Reference	Applications	Colour	3.0m	4.0m
P288	Lean-to Roofs	Mill	62.50	83.25
		White	76.25	101.30
		Brown	78.65	104.90

P288U STRUCTURAL GLAZING BAR SYSTEM – LONG SPAN



As above, except the base bar is supplied in mill finish as it is cloaked by a PVCu thermal underclad of the same colour as the cap. The P288U system is used on applications with enclosed sides.

Reference	Applications	Colour	3.0m	4.0m
P288U	Lean-to Roofs	White	76.25	101.30
		Brown	78.65	104.90

P289 STRUCTURAL GLAZING BAR SYSTEM – LONG SPAN



The P289 system is designed to be used with 16mm polycarbonate or glass units of similar thickness. The only difference between the P288 and the P289 systems is the gasket. A half round hipped gasket is supplied in the P289 in order to accommodate the thinner glazing. When glazed with multiwall polycarbonate the P288 system will span up to 4000mm (1250mm centres). A 2600mm span can be expected when glazing with 16mm glass units at 600mm centres. This system is supplied without a PVCu thermal underclad so should be used on canopies. If the application is one with enclosed sides then the P288U system should be used.

Reference	Applications	Colour	3.0m	4.0m
P289	Lean-to Roofs	Mill	70.15	93.50
		White	83.95	111.90
		Brown	86.30	115.05

P289U STRUCTURAL GLAZING BAR SYSTEM – LONG SPAN



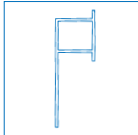
As above, except the base bar is supplied in mill finish as it is cloaked by a thermal underclad of the same colour as the cap. The P289U system is used on applications with enclosed sides.

Reference	Applications	Colour	3.0m	4.0m
P289U	Lean-to Roofs	White	83.95	111.90
		Brown	86.30	115.05

About Side and Ends...



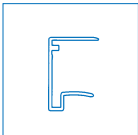
What happens at the sides of my roof?...



When glazing with multiwall polycarbonate, start and finish your roof with a glazing bar. The polycarbonate fits in to one side of the bar whilst a side trim of the same thickness as the sheet fits in to the other side. Fixing is made through the longer leg of the side trim in to the side of the roof. If glazing against a wall, turn the side trim upside down, fix into the wall and flash over. If you are glazing with glass rather than polycarbonate in thicknesses other than 10mm, 16mm, or 25mm then again a side trim can be used. If your glass is a different thickness altogether then start and finish with a glazing bar and fit a fillet of the same thickness as your glass in the other side and flash over.

Reference	To Suit	Colour	3.0m	4.0m
272	10mm	Mill	n/a	13.45
		White	n/a	17.20
		Brown	n/a	18.20
273	16mm	Mill	10.50	13.95
		White	13.25	17.50
		Brown	13.80	18.40
275	25mm	Mill	n/a	17.45
		White	n/a	24.50
		Brown	n/a	25.50

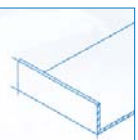
What happens at the ends of my roof?...



When we supply you with multiwall polycarbonate, we always cut the panel to the size you ask for and blow the flutes free of dust. We then tape the flutes with a blanking tape at the top end and with an anti-dust tape at the eaves end. To protect the flutes you should fit an aluminium U profile over the flutes between the glazing bars. We recommend U profiles at the top and bottom end of the sheet. You don't need U profiles if glazing with glass, however they do give a nice decorative finish to your glazing.

Reference	To Suit	Colour	2.5m	3.0m
252	10mm	Mill	n/a	4.60
		White	n/a	6.45
		Brown	n/a	7.30
253	16mm	Mill	n/a	5.20
		White	n/a	7.00
		Brown	n/a	7.85
254	20mm	Mill	3.90	n/a
		White	5.45	n/a
		Brown	6.10	n/a
255	25mm	Mill	4.95	n/a
		White	7.40	n/a
		Brown	8.00	n/a

Used at the end of the base bar, only needed when glazing with glass.

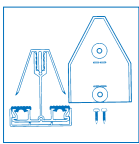


Reference	For Glazing	Colour	Each
SG-MEP	With Structural Systems	Mill	4.25
		White	4.25
		Brown	4.25

About Our Snap-Fit Structural Bar System...



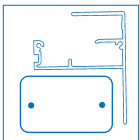
P600 STRUCTURAL GLAZING BAR SYSTEM – MEDIUM SPAN



The P600 structural glazing system is used to install multiwall polycarbonate in 16mm, 20mm and 25mm thicknesses. The P600 system will span up to 3000mm. The convenient pre-packed bar set comprises a snap fit PVCu cap, an aluminium base with gasket fitted, a PVCu thermal underclad and a screw fit end plate. As the system is supplied with a PVCu thermal underclad, it is suitable for an application with closed sides such as a conservatory. P600 is available in white only and should be used only on lean-to applications. The 600 system cannot be used with glass.

Reference	Applications	Colour	2.5m	3.0m	3.5m	4.0m
P600	Lean-to Roofs	White	30.90	38.75	43.25	51.70

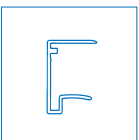
What happens at the sides of my roof?...



When glazing with multiwall polycarbonate and securing the sheet to the support structure using the 600 structural glazing system, you should start and finish your roof with a 600 system side trim. Sheet fits into the two arms of the side trim whilst fixing is made through the longer leg of the trim into the side of the roof. The 601/602 side trim is supplied with an end plate and end plate screws. If glazing against a wall then we suggest starting and finishing with a 600 system glazing bar, the sheet going in one side and a 273/275 side trim turned upside down in the other side. Fix through the long leg of the side trim into the wall and flash over.

Reference	To Suit	Colour	2.5m	3.0m	3.5m	4.0m
601	16mm	White	24.40	30.55	34.15	40.75
602	25mm	White	n/a	31.15	n/a	41.45

What happens at the ends of my roof?...

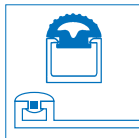


When we supply you with multiwall polycarbonate, we always cut the panel to the size you ask for, and blow the flutes free of dust. We then tape the flutes with a blanking tape at the top end and with an anti-dust tape at the eaves end. To protect the flutes you should fit an aluminium U profile over the flutes between the glazing bars. We recommend U profiles at the top and bottom end of the sheet.

Reference	To Suit	Colour	2.5m	3.0m
253	16mm	White	n/a	7.00
254	20mm	White	5.45	n/a
255	25mm	White	7.40	n/a

About Our Fixing Accessories...

EAVES FILLER

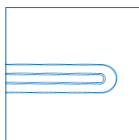


--Eaves fillers work in conjunction with the various Twifix bar systems and are designed to fill the gap between the underside of the sheet and the top of the support structure at the eaves end.

Reference	To Suit System	Colour	4.0m
P226F	226/261, 226/227,	Mill	15.05
	320/261, 500/501	White	19.95
		Brown	20.85
P285F	280/283, 280/283/284,	Mill	19.50
	320/286, 280/288, 600	White	23.25
		Brown	26.95



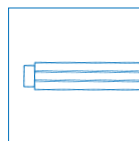
CCS032 GRP RIDGE CAPPING



After bars have been fitted to a ridge on a dual pitch roof and flashed over with butyl flashing or something similar, the GRP ridge is screw fixed to the ridge and acts as a decorative cover. It is supplied with a dished end on one end and is flanged on the other so that it can be made into a longer length.

Reference	To Suit System	Width	Colour	2.5m
CCSO32	226/261, 226/227,	170mm	White	65.50
	320/261, 500/501		Brown	68.80

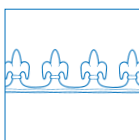
CCS030 GRP RIDGE CAPPING EXTENSION



Extends the CCS032 ridge capping, supplied in 2 metre lengths, just cut to suit.

Reference	To Suit System	Width	Colour	2.0m
CCS030	226/261, 226/227,	170mm	White	41.25
	320/261, 500/501		Brown	43.40

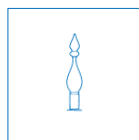
CI CRESTING



Screw fix through the ridge capping into the ridge beam. Supplied in a Fleur de Lys pattern.

Reference	Size	Colour	Each
CI	500mm long	White	17.70
	35mm wide	Brown	18.35
	105mm high		

FI FINIAL



Supplied with an attachment plate and is fitted at the end(s) of a ridge.

Reference	Height	Colour	Each
FI	206mm	White	21.25
		Brown	22.50

NYLON FIXING BUTTONS

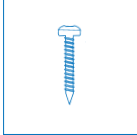


For spot fixing to rafters, purlins etc on roofs with a slope of 10° or more. Use a sharp bit to drill an 18mm hole in your multiwall sheet. The buttons are supplied in packs of ten complete with foam washers and 2" No. 12 pan headed slotted screws.

Reference	Sheet thickness	Colour	Per 10
244P	10mm	White	10.80
247P		Brown	10.80
245P	16mm	White	10.80
248P		Brown	10.80

and Tapes, Fixings and Flashings...

SCREWS, PLASTIC CAPS AND WASHERS



When aluminium glazing bars are fitted with ordinary mild steel screws the metallurgic reaction between the two metals causes rusting - this can lead to failure of the glazing system. In order to prevent this it is essential to use stainless steel screws or bolts when fitting Twinfix aluminium bar systems. Bearing this in mind, we supply three variants of screws available as follows:

- a) **Self-Tapping Screw - 10 Gauge - 19mm/22mm/25mm/32mm** Stainless steel - pan head - Supadriv/Posidriv recess "AB" type (pointed).
- b) **Self-Tapping Screw - 10 Gauge - 38mm/45mm/50mm** Stainless steel - pan head - Supadriv/Posidriv recess "B" type (non-pointed).
- c) **Wood Screw - 10 Gauge - 62mm** Stainless steel - conventional thread - countersunk Supadriv/Posidriv recess.

Recommended screwdriver: Supadriv/Posidriv No.2

The chart below indicates recommended screw size/type for each combination of Twinfix glazing bar/multiwall sheet thickness.

Screws (Price/box of 100 items)

System	Sheet Thickness	Screw Ref	Per 100
226/261*	All	62/10/WS	23.25
320/261*			
500/501*			
226/227*	10mm	25/10/ST	10.60
	16mm	32/10/ST	13.20
	25mm	38/10/ST	16.65
226H/227*	10mm	32/10/ST	13.20
Hipped	16mm	38/10/ST	16.65
	25mm	50/10/ST	19.10
226/286*	10mm	32/10/ST	13.20
	16mm	38/10/ST	16.65
	25mm	50/10/ST	19.10
226H/286H*	10mm	38/10/ST	16.65
Hipped	16mm	45/10/ST	18.25
	25mm	50/10/ST	19.10
280/283*	10mm	25/10/ST	10.60
	16mm	32/10/ST	13.20
	25mm	38/10/ST	16.65
280/283H*	10mm	32/10/ST	13.20
Hipped	16mm	38/10/ST	16.65
	25mm	45/10/ST	18.25
280/288*	25mm	19/10/ST	9.55
320/227	10mm	19/10/ST	9.55
	16mm	25/10/ST	10.60
	25mm	38/10/ST	16.65
320/286	10mm	32/10/ST	13.20
	16mm	38/10/ST	16.65
	25mm	45/10/ST	18.25

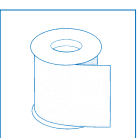
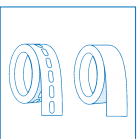
* Denotes designed for use with screw cover cap.

Plastic Caps and Washers (Price/bag of 100 items)

5.05

Screw cover caps should be used on all of the Twinfix bar systems with the exceptions of the 320 bar where a screw cover clip is supplied, and the 600 snap-fit system that does not need screws.

TAPES AND FLASHING



After blowing the flutes free of dust, anti-dust breather tape (grey) should be used at the gutter end of multiwall polycarbonate sheet to help prevent dust entry, whilst allowing condensation drainage. Once applied, it should then be covered using the Aluminium U profile (ref. 252 -255). Blanking tape (white) permanently closes the ridge end of multiwall sheet. Twinfix blow the flutes free of dust and tape both ends of multiwall when we supply you with sheet. Butyl flashing ensures a weatherproof seal at the ridge or against a wall.

Tape Type	Reference	To Suit Thickness	Size	Per Roll
Anti-Dust	ADT10	10mm	25mm x 20m	6.10
	ADT16	16mm	38mm x 20m	9.15
	ADT25	20mm/25mm	45mm x 20m	10.85
Blanking Tape	BT10	10mm	25mm x 50m	8.20
	BT16	16mm	38mm x 20m	7.55
	BT25	20mm/25mm	45mm x 50m	14.70
Butyl Flashing	200/10 White	All	200mm x 10m	39.75
	200/10 Lead	All	200mm x 10m	39.75

All prices are £/sheet/pack/item and are exclusive of VAT

About Our Roof Glazing For Industrial Buildings...

If you have areas of inadequate roof glazing that need upgrading to a higher standard, within a budget and without fuss, we can provide you with a choice of cost-effective and watertight roof glazing panel systems that will solve your problems. We also offer a non-fragile safe rooflight that allows you to fulfil your health and safety responsibilities.

Twifix roof glazing panels are routinely fitted in roofs over factories, warehouses, manufacturing units and office space, and are also found in covered walkways, vehicle shelters and entrance canopies.

MULTI-LINK-PANEL RAPID ROOF GLAZING

The system that outperforms in terms of cost, quality and appearance...



...and is simply the quickest way to install a quality glazed roof.

The Multi-Link-Panel is a pre-assembled glazing panel, manufactured to size for each individual project. Each panel comprises aluminium structural glazing bars fitted with multiwall polycarbonate glazing sheet. Available with 16mm or 25mm glazing, individual panels can span up to 4 metres.

Improving the working environment:

- **Virtually unbreakable glazing – no more leaking roofs**
- **Constant high levels of natural light transmission help cut electricity costs**
- **Reduce your heating costs and retain warmth**
- **Low maintenance – reduce your running costs**
- **Panels available to meet HSE requirements for non-fragile roofs**
- **Exceptionally quick and easy to install – reduces factory disruption**



MULTI-LINK-PANEL NF SAFE ROOFLIGHT SYSTEM

One of the primary requirements for many education establishments, leisure facilities, factories and railway stations is for roof glazing that conforms to the ACR(M)001:2000 Test for Fragility of Roofing Assemblies, as required in the HSE Document HSG33. The Twifix Multi-Link-Panel NF does just that.



About Our Canopies and Walkways...



Lean-to Canopy



Free-standing Mono-pitch Canopy



Free-standing Duo-pitch Canopy



Entrance Canopy



Free-standing Covered Walkway



Barrel Vault Walkway



Free-standing Valley Canopy



Barrel Vault Entrance Canopy

Please ring us with your requirements.

About Our Smoking Shelter Kits...

The smokefree law applies to virtually all 'enclosed' and 'substantially enclosed' public places and workplaces. This includes both permanent structures and temporary ones, such as tents and marquees. This also means that indoor smoking rooms will no longer be allowed. While there is no official requirement for outdoor smoking shelters to be provided, many companies, pubs, clubs and hotels will wish to have one fitted.

Twifix offers a choice of either a lean-to wall fixed or a free-standing smoking shelter.

- A choice of sizes
- Supplied in kit form with fixing instructions
- Low maintenance framework in polyester powder coated aluminium
- Optional vertical glazing in clear polycarbonate
- Pitched or curved roof design
- Virtually unbreakable multiwall polycarbonate roof glazing
- Available with white or black frame - with RAL or BS colours to special order
- Ideal for factories, shops, offices, colleges, pubs and clubs



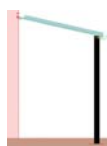
Where you need a complete design service, including structural calculations or design drawings for Planning purposes, we can provide this. You can select a tint of glazing and a framework colour that will best enhance the building.

Pitched roofs on all models are glazed with tough 16mm multiwall polycarbonate in a choice of clear, opal or bronze tint. The curved roof on the free-standing shelter is glazed with 10mm multiwall polycarbonate, in the same range of tints.

Polycarbonate is self-extinguishing in a fire, so it is an ideal glazing medium for a smoking shelter.

Wall Fixed Shelters

Should you be interested in a wall fixed shelter please discuss your requirements with us so that we can establish the suitability of the fabric of your building. The top height of a mono-pitched roof shelter when fitted against a wall is 2,755mm for a shelter that is 1,000mm deep, and 2,930mm for a shelter that is 2,000mm deep.



Wall Fixed with Mono-Pitched Roof



Free Standing with Mono-Pitched Roof



Free Standing with Duo-Pitched Roof



Free Standing with Curved Roof



Please ring us with your requirements.

About Our Haven Car Port and Oasis Patio Cover...



Installed in just one day



Enjoy meals under cover



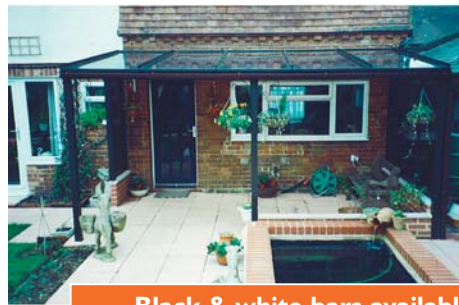
Covered from car to home



Space for the children to play



Protect cars from bad weather



Black & white bars available



Start off with a Patio Cover ...



... and end up with a Sun Room

Please ring us with your requirements.

About Our Solid Polycarbonate Sheet...

As a basic glazing material, polycarbonate sheet is over 200 times stronger than the equivalent thickness of standard float glass. This inherent strength makes polycarbonate virtually unbreakable. Polycarbonate sheet will withstand accidental impacts, providing the highest standards of safety to the public and security to the premises it protects. Importantly, it will survive determined acts of vandalism.

Properties	Applications
High impact strength	Anti-vandal glazing
Wide temperature service range	Rooflights
Dimensionally stable	Walkways
Excellent electrical properties	Security glazing
Glass-like transparency	Barrel vaults
Ease of fabrication	Balustrades
Excellent product range	Transportation
Excellent range of sizes and thicknesses	Street furniture



Lexan and Makrolon are the two best known brands of polycarbonate sheet. Both are available from Twifix.

LEXAN EXELL D UV PROTECTED POLYCARBONATE

A UV coating on both sides means this is the type of sheet to use in the majority of glazing applications. This price is for a clear sheet. Lexan Exell D can also be supplied in a bronze tint.

Sheet Size (mm)	Thickness			
	3mm	4mm	5mm	6mm
3050 x 2050	192.00	256.10	320.00	384.10
2050 x 1525	96.00	128.05	160.00	192.05
2440 x 1220	91.40	121.95	152.35	182.85

LEXAN ST5000-I12 OBSCURE POLYCARBONATE

The pebbled surface of obscure polycarbonate provides the ideal solution for privacy glazing. This price is for a clear sheet. Lexan ST5000 can also be supplied in a bronze tint.

Sheet Size (mm)	Thickness		
	3mm	4mm	6mm
3050 x 2050	192.10	256.00	375.65
2050 x 1525	96.05	128.00	187.85

LEXAN MARGARD ABRASION RESISTANT POLYCARBONATE

UV resistant polycarbonate with a surface coating that approaches glass. This means it is extremely hard wearing and resistant to many forms of graffiti. Ideal in low level glazing in shops and in bus shelters.

Sheet Size (mm)	Thickness		
	3mm	4mm	6mm
3000 x 2000	996.75	1163.50	1571.70

MAKROLON GP GENERAL PURPOSE POLYCARBONATE

The standard grade (non-UV) that is suitable for protective glazing, machine guards and internal glazing applications.

Sheet Size (mm)	Thickness			
	3mm	4mm	5mm	6mm
3050 x 2050	161.20	215.00	268.80	322.60
2050 x 1525	80.60	107.50	134.40	161.30
2440 x 1220	76.75	102.35	127.95	153.60

MAKROLON UV PROTECTED POLYCARBONATE

A UV coating on both sides means this is the type of sheet to use in the majority of glazing applications. This price is for a clear sheet. Makrolon UV can also be supplied in a bronze tint.

Sheet Size (mm)	Thickness			
	3mm	4mm	5mm	6mm
3050 x 2050	192.00	256.10	320.00	384.10
2050 x 1525	96.00	128.05	160.00	192.05
2440 x 1220	91.40	121.95	152.35	182.85

MAKROLON UV PATTERN POLYCARBONATE

The pebbled surface of obscure polycarbonate provides the ideal solution for privacy glazing. This price is for a clear sheet. Makrolon UV obscure sheet can also be supplied in a bronze tint.

Sheet Size (mm)	Thickness		
	3mm	4mm	6mm
3050 x 2050	192.10	256.00	375.65
2050 x 1525	96.05	128.00	187.85

MAKROLON AR ABRASION RESISTANT POLYCARBONATE

UV resistant polycarbonate with a surface coating that approaches glass. This means it is extremely hard wearing and resistant to many forms of graffiti. Ideal in low level glazing in shops and bus shelters.

Sheet Size (mm)	Thickness		
	3mm	4mm	6mm
3050 x 2050	996.75	1163.50	1571.70



Cut To Size

You do not have to buy a full sheet of any of the above products. Twinfix can quote you for one panel or 1000 panels, or any quantity you want, please just ask.

About Our Security Guard Systems...



With Twinfix Glaze-Guard, it really could not be simpler to fit polycarbonate safety and security glazing in vertical applications. Polycarbonate sheet, 200 times stronger than the equivalent thickness of annealed glass, will not crack, shatter, splinter or spall – even under the most violent impact or concerned assault.

Glaze-Guard enables the fast installation of impact resistant polycarbonate. It incorporates features which fulfil the special glazing requirements for installing polycarbonate. These include:

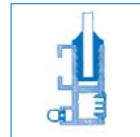
- **An adequate rebate depth to ensure the sheet is retained under load without ‘popping’ out of the frame**
- **Automatic provision of the required thermal expansion allowance to prevent distortion of the sheet**
- **The use of materials chemically compatible with polycarbonate**

TG1/2 GLAZING FRAME complete with screw cover section



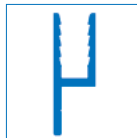
Supplied in 4 metre lengths and used with TG7 or TG9 for corners.

Colour	4.0m
Anodised	38.95
Mill	31.15
White	35.00
Brown	36.65



TG8 GLAZING FRAME complete with screw cover section

A simple aluminium profile suitable for a variety of vertical glazing applications when used in conjunction with impact resistant polycarbonate. Supplied in a 4 metre length.



Colour	4.0m
Anodised	23.40
Mill	18.70
White	20.70
Brown	22.15



RUBBER GLAZING GASKET

Glazing gasket for sheet thicknesses 3mm to 8mm.



Ref.	To Suit Thickness	£ Per 50 Metre Roll	£ Per Metre
GGG3	3mm	83.45	1.70
GGG4	4mm	83.15	1.70
GGG5	5mm	80.45	1.65
GGG6	6mm	78.80	1.60
GGG8	8mm	77.45	1.55
TG6	For use with TG1/2	21.15	0.45



TG7 CORNER FIXING BRACKET

Plated mild steel, right angled bracket with stainless steel grub screws for use with TG1/2 when constructing mitred corners.



Ref.	£ Per pack of 4
TG7	14.40

TG9 CORNER FIXING BRACKET

Polycarbonate joint for use when cutting sections at 90° angle, again used with TG1/2 profile.



Ref.	Colour	£ Per pack of 4
TG9	Grey	3.50
	White	3.50
	Brown	3.50

About Our Polycarbonate Roof Domes and Pyramids...

(Single, Double or Triple Glazed - Insulated Kerb)

ULTRA

- High specification
- Clean smooth appearance
- High level of security
- Dome locks to kerb
- Fast installation



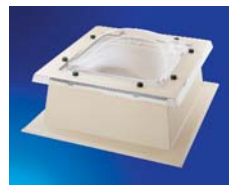
TRADE

- Quality with economy
- Visible security fixings
- Pre-drilled dome
- Fixings installed on site



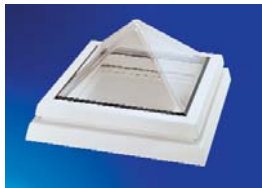
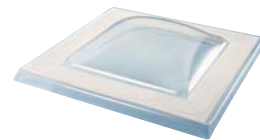
SUREFIT

- Cost effective quality
- Visible security fixings
- Dome locks to kerb
- Fast installation



REFLEX

- Dome only
- Install onto existing kerb
- Wide fixing flange
- Ideal for refurbishment



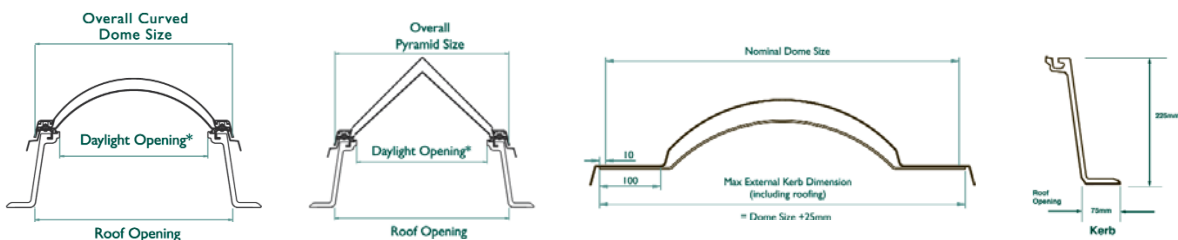
Circular domes and kerbs are also available.

Polycarbonate options:

- Clear
- Opal (white)
- Bronze
- Obscure (frosted)

Ventilation & Opening options:

- Hit & Miss ventilation
- Manual or electric opening
- Roof access
- Smoke vent



ROOF OPENING SIZES (nominal dome sizes for Reflex Domes)

Square	Size	Availability
	600 x 600	
	750 x 750	
	900 x 900	Available as Access Hatch & Smoke Vent
	1050 x 1050	Available as Access Hatch & Smoke Vent
	1200 x 1200	Available as Access Hatch & Smoke Vent
	1350 x 1350	Reflex Dome only
	1500 x 1500	Opening top not available
	1800 x 1800	Opening top not available Pyramid top not available

Rectangular	Size	Availability
	600 x 900	
	600 x 1200	
	600 x 1500	
	600 x 1800	
	750 x 900	
	900 x 1200	Available as Access Hatch & Smoke Vent
	900 x 1800	Available as Access Hatch & Smoke Vent Pyramid top not available
	1050 x 1500	Available as Access Hatch & Smoke Vent
	1200 x 1500	
	1200 x 1800	Pyramid top not available
	1200 x 2400	Opening top not available Pyramid top not available

Prices and further information about domes & pyramids can be obtained from our sales office

About Trespa Rainscreen Cladding...

Trespa Meteoron cladding panels are used extensively in both new-build and refurbishment projects. We also supply a comprehensive range of fixing systems for installing rainscreen cladding panels. The fixings range covers simple screw and rivet fix systems, through to more sophisticated hidden rail systems. External screws and rivets can be colour matched to the shades of the rainscreen cladding panels. For convenience and peace of mind, the fixing systems are available off-the-shelf, with Twifix supplying both technical and site support. Twifix also offer a cut-to-size service for rainscreen cladding panels.



Trespa Meteoron Panels

Trespa Meteoron is a flat panel based on thermosetting resins, homogeneously reinforced with wood fibres and manufactured under high pressure and at high temperatures. Its integrated decorative surface is based on pigmented resins, cured by electron beams.

DURABLE CONSTRUCTION:

Weather resistant

Trespa Meteoron is extremely weather resistant. Sun, rain (even acid rain) and moisture do not affect the surface or the core.

Colour fast

Trespa Meteoron panelling is also resistant to the UV radiation in sunlight. Tests at outside locations in heavily polluted industrial areas in coastal Florida, and the 3000-hour Xenon test in accordance with ISO 4892, have proven that Trespa Meteoron has a colour stability class of 4-5 on the international grey scale (ISO 105 A 02). This means that the colours will not change significantly for at least ten years, even under the most severe climatic conditions.

Impact resistant

The modulus of elasticity and high tensile and flexural strength guarantee Trespa Meteoron's high impact resistance. The homogeneity and density of the core ensure that the panelling has a high pull-out strength for fixings.

Easy to clean

The closed, non-porous surface ensures that practically no dirt accretes. An organic detergent can be used for removing graffiti, for instance, without the colour being affected in any way.

Colour choice

There are a vast number of colours and finishes to choose from in the Trespa Meteoron range. They have been developed in close co-operation with leading architects and colour consultants.

Application areas

Trespa Meteoron panels are used in the following application areas:

- **Façade cladding**
- **Fascias and soffits**
- **Shelters and booths**
- **Exterior canopies**
- **Balcony and gallery cladding**
- **Sandwich and single-skin panels as door and infill panels**



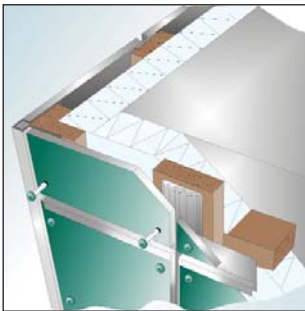
About Fixings for Rainscreen Cladding...

For façade applications, cladding panels can be screwed to timber battens or riveted to an aluminium subframe. Screws and rivets are colour co-ordinated to match the panels. For more complicated designs, an aluminium hidden fix system can be used. This enables the cladding panels to be adjusted when the plane is out of true.

The fixing method affects the final appearance of the clad building. Choose a hidden fix system in a shear, smooth façade unobstructed by any fixings at all, whilst screws or rivets can help provide different, visible features to a building. All systems employ an open edge on the panel joint to help give a geometric feel.

SCREW FIXED TO TIMBER BATTENS - System TWF 2013

Economical and durable
Bio-degradable



Consists of:-

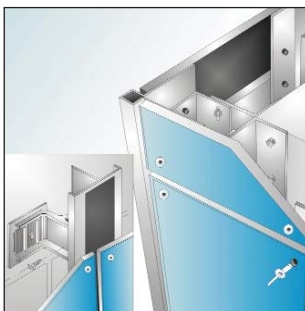
- Stainless steel Torx screws with colour matched heads
- 36mm neoprene gasket
- 60mm neoprene gasket
- Ventilation profile

Options:-

- Internal corner profiles
- External corner profiles
- Horizontal joint profiles

RIVET FIXED TO ALUMINIUM RAILS - System TWF 2014

Non-combustible system
Rot proof construction



Consists of:-

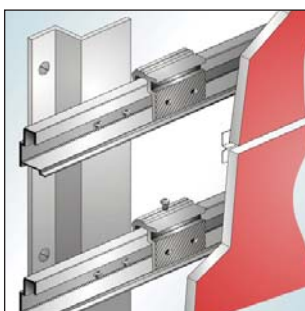
- PVC tape
- 18mm large head rivets with colour matched head
- Aluminium 'L' rails
- Aluminium 'T' rails
- 36mm neoprene gasket
- 60mm neoprene gasket
- Ventilation profile

Options:-

- Adjustable aluminium projection wall brackets
- Internal corner profiles
- External corner profiles
- Horizontal joint profiles

INVISIBLE FIX - System TWF 2802

Highly engineered
Invisible fixing
Flush and flat finish



Consists of:-

- Aluminium support rail
- Aluminium adjustable bracket
- Aluminium fixed bracket
- Aluminium standard bracket
- Aluminium angle bracket
- Thread cutting screws
- Ventilation profile

Options:-

- Adjustable aluminium projection wall brackets
- Aluminium Omega
- Aluminium Zed
- Aluminium 'L' rails
- Aluminium 'T' rails
- Internal corner profiles
- External corner profiles
- Horizontal joint profiles

Please ring us with your requirements.

Ordering Information

Enquiry and Order Line : **01925 811311** Fax : **01925 852955**

Opening times Monday to Friday: 8.30am – 5.00pm

ENQUIRIES

By Telephone

Contact us on 01925 811311 and explain your application, our trained staff will advise you of the parts needed to complete your job. They will also quote you our best price. Orders will be confirmed in writing if requested.

By Fax

Our fax line is always open. Fax through your enquiry with a drawing if possible on 01925 852955 and one of our sales staff will fax you or call you back at the earliest possible opportunity.

By Email

Contact us at:
enquires@twinfix.co.uk

Website

Visit our web site to find out more information regarding Twinfix and our products.
www.twinfix.co.uk

HOW TO ORDER

By Telephone

Simply contact us on 01925 811311, place your order with a Twinfix member of staff. See the instructions below on how to pay

By Fax

Fax your order on 01925 852955, include a telephone number so that we can call you back to discuss payment.

By Post

Send your order with payment to:
Twinfix
201 Cavendish Place
Birchwood Park
Birchwood
Warrington WA3 6WU

Samples

We believe that before you place your order you should be confident in the product you are buying. Contact the sales office on 01925 811311 for information and samples on the items in which you are interested.

SUPPLY

Delivery

All the products featured in our catalogue need to be handled with great care. We always try and deliver your goods on our own vehicles. Our lorries and vans are specially designed to take long lengths of multiwall polycarbonate and our drivers are fully trained in the attributes of the product.

Collect

Our trade counter and reception area shows the full range of Twinfix products. When you contact us for prices, our sales office will advise you of the time needed to prepare your order ready for collection. The trade counter is open until 4.30pm Monday to Friday for collection.

HOW TO PAY

Cash

Cash payments can only be taken at our Trade Counter. We regret we cannot facilitate cash on delivery payments.

Cheque

Make your cheque payable to **Twinfix**. Please write your home address and cheque card number on the reverse and enclose it with your order.

Credit / Debit / Switch Card

Payments can be made with Visa, Mastercard or Delta. Payment can also be made by Switch card. Please ask us for details

VAT

All prices quoted are exclusive of VAT.

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Twinfix is the trading name of Twinwall Fixings (UK) Ltd.