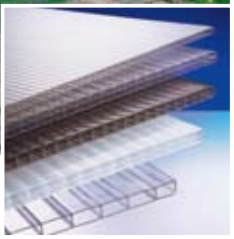
guttagliss®

Transparent twinwall sheets

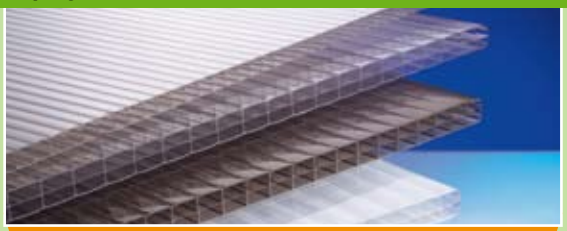


Product overview

www.gutta.com

Polycarbonate or acrylic? The chart below will help you to select the right material.

guttagliss dual twinwall sheets
of polycarbonate



- Highest impact/hail resistance
- Simplest processing and installation
- Very good UV and weather resistance
- Largest range of sheets
- Cold bendable
- Good plant growth
- Very good insulating properties
- 10 year warranty

Conclusion:
Mechanically, virtually indestructible material with very good durability. Through low weight and easy processing, the preferred choice for the DIY enthusiast.

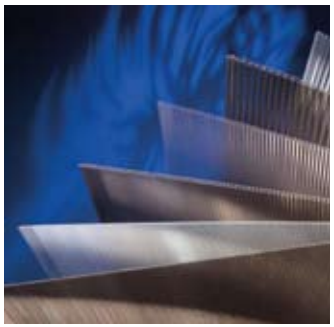
guttagliss acryl twinwall sheets
of impact-resistant acrylic

- Highest clarity and lustre
- Best static properties
- Best UV and weather resistance
- Various designs
- Not bendable
- Best plant growth
- Very good insulating properties
- 10 year warranty

Conclusion:
Visually brilliant material with outstanding weather resistance. The sheet for the highest demands where permanent, clear transparency is concerned.

guttagliss dual twinwall sheets

Insulating sheets of polycarbonate in long-life quality



Properties

- Highest impact and hail resistance
- Simplest processing and installation
- Very good UV resistance
- Very good weather resistance
- Largest range of sheets
- UV impervious
- Cold bendable
- Good plant growth
- Very good insulating properties

Applications

- Roof cladding
- Wall sheeting
- Terrace coverings
- Conservatories
- Pergolas
- Carports
- . . . and your ideas

10 YEAR GUARANTEE SUBJECT TO OUR WARRANTY CONDITIONS

The material

guttagliss dual twinwall sheets are made from polycarbonate and have an additional surface protection layer (co-extrusion) on one side, which provides them with excellent weather and UV stability. **guttagliss dual twinwall sheets** are impact resistant and easy to process.

Select **guttagliss dual twinwall sheets** when you require especially sturdy and durable sheets with excellent thermal insulation in various sheet thicknesses.

guttagliss dual twinwall sheets are also available in special designs with unique product characteristics.

guttagliss dual easy clean

The **guttagliss dual easy clean** has a self-cleaning coating on the top of the sheet that reduces the surface tension of water. Instead of numerous water droplets, a film of water is formed which maintains the appearance of the sheet and ensures an improved outflow of dirt and particles of dust. The bottom of the sheet also provides effective protection from falling droplets (condensate). This is especially important when designing greenhouses.

guttagliss dual thermostar

Due to a thickness of 25 mm, the **guttagliss dual thermostar** has a very high K - value of 1.5 W/m²/K. By means of the trellis design, the sheet also achieves far better static values than a comparable 16 mm sheet.

guttagliss dual sunstar

In addition to the excellent static and thermal properties of the dual thermostar, the **guttagliss dual sunstar** also has the “sun stop effect”. A special coating reflects the rays of the sun and thus ensures considerably reduced indoor heating in the summer. In winter, the excellent thermal insulation is retained.

Installation accessories

System compatible installation systems, as well as suitable accessories, such as screws, end brackets, etc. are listed on pages 14 – 23.

So as not to limit the service life of the sheets, please comply with our installation instructions on page 11. Before installation, please read these instructions and ensure that you only use original guttagliss accessories for installation purposes.

Warranty

On our **guttagliss dual twinwall sheets** we give a 10 year warranty from the date of sale against breakage due to the weather or hail*, as well as excessive loss of transparency (more than 10%).

* Hail diameter up to 20 mm with an impact velocity < 21 m/s.

Preconditions:

- Use of the components in Europe.
- The product must remain in its original state and may not be deformed nor modified, except where expressly permitted.
- Transportation, storage, cleaning, processing and installation to be in line with the state-of-the-art and the latest technical documents such as the installation and maintenance instructions from gutta.
- The application is not subject to any detrimental chemical effects and an accumulation of heat is prevented by the design.
- Installation is carried out exclusively with original accessories.
- Complaints must be submitted to us together with the original invoice via the dealer from which the sheets were purchased.

In the event of a justified damage report received within the warranty period, a free-of-charge replacement of the sheets will be supplied.

Further claims are excluded. The warranty does not cover retiling costs, nor other losses due to breakage; the warranty starts from the date of sale.

Further information is provided in our warranty for **guttagliss dual twinwall sheets.**

Subject to colour and size deviations, etc. within the usual tolerances. Please comply with the local building regulations. Our recommendations do not exempt you from your obligation to check the product in a responsible manner. In the event of doubt, please use the services of an expert consultant.

Subject to technical alterations.

Technical data

Sheet type	dual	dual	dual	dual easy clean	dual thermostar	dual sunstar
Sheet thickness (mm)	6[1]	10	16	16	25	25
Sheet length (mm)	2000 – 3000	2000 – 6000	2000 – 6000	2000 – 6000	2000 – 6000	2000 – 6000
Sheet width (mm)	1050	1050	980, 1200	980, 1200	980, 1200	980
Twinwall widths (mm)	~ 6.35	~ 10.7	~ 20	~ 20	~ 20	~ 20
GSM approx. (g/m²)	1300	1700	2700	2700	3500	3500
Thermal stability	-40 to +120°C	-40 to +120°C	-40 to +120°C	-40 to +120°C	-40 to +120°C	-40 to +120°C
Fire rating according to DIN 4102	B1	B1	B1	B2	B2	B2
Transmission ratio (%)						
clear	82	80	76	76	44	–
opal-white	–	–	48	–	40	40
bronze	–	35	35	–	–	–
Heat transmission K value (W/m² K)	3.5	3.0	2.4	2.4	1.5	1.5
Coefficient of linear extension (mm/m°C)	0.065	0.065	0.065	0.065	0.065	0.065
Cold flexural radius (mm/min.)	1050	1750	2800	2800	4375	4375
UV protection	Both sides	Both sides	Both sides	Both sides	One-sided Opal Both sides	Both sided

[1] 6 mm sheets should only be used for smaller structures, such as small greenhouses, sheds, entrances to buildings, etc.

[2] Formula for calculation of elongation/shrinkage:

Coefficient of linear extension x sheet length in m x temperature difference in °C = Thermal expansion/shrinkage in mm

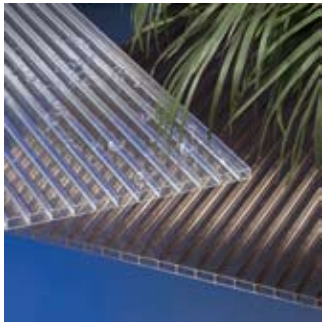
Example:

Expansion/shrinkage of 3 m long sheet and a temperature difference of 20°C:

0,065 x 3 x 20 = 3,9 mm Length expansion/shrinkage

guttagliss
acryl sz twinwall sheets

Outstanding, impact resistant sheets with good insulating characteristics



Properties

- Highest clarity and lustre
- Best static properties
- Best UV stability
- Very good weather resistance
- Various designs
- Not bendable
- Best plant growth
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Applications

- Roof cladding
- Wall sheeting
- Terrace coverings
- Conservatories
- Pergolas
- Carports
- . . . and your ideas

10 YEAR GUARANTEE SUBJECT TO OUR WARRANTY CONDITIONS

The material

guttagliss acryl sz twinwall sheets are manufactured from acrylic (polymethyl methacrylate PMMA) and a special elastomer additive. This additive produces a high resistance to impact and good resistance to breakage.

We recommend 16 mm thick **guttagliss acryl sz twinwall sheets** for buildings with the highest demands with regard to appearance and durability.

The simple assembly and durable transparency are additional advantages of the sheets.

Hardly any dirt can adhere due to the high gloss, pore-free surface, so **guttagliss acryl sz twinwall sheets** are virtually maintenance-free.

guttagliss acryl sz twinwall sheets are also available in special designs with unique product characteristics.

guttagliss acryl sz panorama

The **guttagliss acryl sz panorama** achieves a previously unattainable high transparency due to the extremely wide twinwalls (96 mm).

guttagliss acryl sz heatplus

The special coating of the **guttagliss acryl sz heatplus** reflects the rays of the sun and thus ensures considerably reduced indoor heating in the summer. In winter, the excellent thermal insulation is retained.

Installation accessories

System compatible installation systems, as well as suitable accessories, such as screws, end brackets, etc. are listed on pages 14 – 23.

So as not to limit the service life of the sheets, please comply with our installation instructions on page 11. Before installation, please read these instructions and ensure that you only use original guttagliss accessories for installation purposes.

Warranty

For our **guttagliss acryl sz twinwall sheets** we give a warranty for the following data after 10 years of external weathering:

Flexural E-module (even):	95 % of the original value
Tensile strength (even):	90 % of the original value
Light transmission ratio (even):	85 % of the original value

We also provide a 10 year warranty for resistance to weather induced mechanical damage and damage due to hail*:

* Hail diameter up to 20 mm with an impact velocity < 21 m/s.

Preconditions:

- Use of the components in Europe.
- The product must remain in its original state and may not be deformed nor mo dified.
- Transportation, storage, cleaning, processing and installation to be in line with the state-of-the-art and the latest technical documents such as the installation and maintenance instructions from gutta.
- The application is not subject to any detrimental chemical effects and an accu mulation of heat is prevented by the design.
- Installation is carried out exclusively with original accessories.
- Complaints must be submitted to us together with the original invoice via the dealer from which the sheets were purchased.

In the event of a justified damage report received within the warranty period, a free-of-charge replacement of the sheets will be supplied.

Further claims are excluded. The warranty does not cover retiling costs, nor other losses due to breakage; the warranty starts from the date of sale.

Further information is provided in our warranty for **guttagliss acryl sz twinwall sheets**.

Subject to colour and size deviations, etc., within the usual tolerances. Please comply with the local building regulations. Our recommendations do not exempt you from your obligation to check the product in a responsible manner. In the event of doubt, please use the services of an expert consultant.

Subject to technical alterations.

Technical data for acryl sz twinwall sheets

Sheet type	acryl	panorama	heat plus
Sheet thickness (mm)	16	16	16
Sheet length (mm)	2000 – 6000	2000 – 6000	2000 – 6000
Sheet width (mm)	980, 1200	980, 1200	980
Twinwall widths (mm)	32	96	16
GSM approx. (g/m²)	4000	4700	4000
Thermal stability	-20° to +70°C	-20° to +70°C	-20° to +80°C
Fire rating according to DIN 4102	B2	B2	B2
Transmission ratio (%)			
clear	84	87	–
opal-white	75	–	62
bronze	–	–	–
Heat transmission K value (W/m² K)	2.7	2.7	2.4
Coefficient of linear extension (mm/m°C)*	0.07	0.07	0.07
Cold flexural radius (mm/min.)	Not bendable	Not bendable	Not bendable
UV protection	Both sides	Both sides	Both sides

*** Formula for calculation of elongation/shrinkage:**

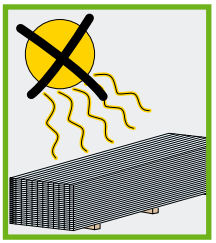
Coefficient of linear extension x sheet length in m x temperature difference in °C = Thermal expansion/shrinkage in mm

Example:

Expansion/shrinkage of 3 m long sheet and a temperature difference of 20°C:

0.07 x 3 x 20 = 4.2 mm thermal expansion/shrinkage

Preconditions:



Storage

Do not store in direct sunlight. When storing in a stack there is a risk of deformation in the event of direct solation. Store the sheets flat and protect them from fouling and mechanical strain. A white foil or thick cardboard is suitable as a covering.

Expansion/shrinkage

The length of the sheet changes due to the effect of the temperature. This must be noted in the design. The pertinent data is provided in the table of “Technical data”.

Condensate

Condensation may briefly occur in the twinwalls in specific types of weather. This is due to the design. This will not have any effect on the material and function of the sheets.

Seal

If additional sealing is required, use **guttagliss special silicone** (Art. No.: 3410251), since this is neutrally cross-linked and plastic compatible.

Roof pitch

The roof pitch must not be less than 7°.
This also applies in lower levels!

Strapping

Timber, where possible warp-free glued truss or also metal.
Paint the rafter surfaces white or laminate with reflecting **guttagliss adhesive tape silver**, so as to prevent the accumulation of heat, which can cause cracking and deformation. Timber preservatives/ impregnations must be allowed to thoroughly dry and ventilate, since discolouration will otherwise be possible.

Rear ventilation

In accordance with DIN 4108, adequate provision must be made for ventilation from the rear. No special action is required for open structures, e.g. carports, pergolas, etc.

Accessibility

Only accessible with weight-distributing access boards. Upholster the access boards!

Preconditions:

Support spacing

The sheet must have all round contact. Transverse supports can (where necessary) also be fitted after installation.

The support spacing depends on the roof pitch as well as the local wind and snow loads.

Support spacing for guttagliss dual twinwall sheets

Load (kg/m²) ↓	Thickness	Sheet type					
	Width	6 1050	10 1050	16 980	16 1200	25 980	25 1200
75		1500	2000	4000	2500	*	*
90		1000	1500	3000	2000	*	*
125		1000	1500	2000	1500	*	*
150		1000	1400	2000	1500	*	*
175		**	1300	1800	1300	*	*
200		**	1000	1500	1000	*	2500

all mass in mm
* Transverse support required ** not suitable

Support spacing for acryl sz twinwall sheets

Load (kg/m²) ↓	Thickness	Sheet type			
		acryl / heat plus		panorama	
	Width	16 980	16 1200	16 980	16 1200
75		6000	4000	3500	2500
90		4600	3000	2500	1800
125		3800	2200	1800	1350
150		3100	1600	1200	1000
175		2700	1200	850	750
200		2400	900	600	600

all mass in mm

Rafter spacing

Where the supporting structure is not yet available, we recommend spacing the rafters so that the sheets do not have to be cut. Normally, this will only then require cutting the width of the final sheet.

Apart from the sheet width, the space must also include the space for the profile chamber and an expansion joint.

This grid dimension from centre to centre is calculated as follows:

The installation systems are not self-supporting and need, in any event, a supporting structure.

Processing

Cutting

guttagliss twinwall sheets can be easily cut to size with a fine toothed handsaw or circular saw bench. The swarf produced must be removed with compressed air or by suction.

Drilling

guttagliss twinwall sheets are installed with suitable profiles, so that drilling is not normally required. Where drilling is required due to the design, the drilled holes must be 50% larger than the screw diameter. Where possible, use a **guttagliss plastic centre bit** (Art. No.: 3410241).

Cleaning

Use a mild soap solution, a sponge and plenty of water.

❶ guttagliss durotop profile system

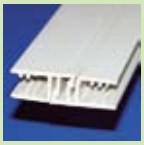
Inexpensive, easy to install plastic profiles for 10 and 16 mm sheet thickness of stainless plastic (casement profile quality)

Installation instructions:

1. Preparing the supporting structure: Apply silver adhesive tape to the top of the rafters and joists, or paint white.
2. Cut the centre and edge profiles to size. Take account of roof protrusions! Profile length = Sheet length + 40 mm!
   The sheets can also be ordered to size.
3. Pilot drill the centre and edge profiles every 50 cm (dia. 7 mm).
   Place the centre profiles flush together!
4. Stick edge closing tape on the top of the sheets. Close bottoms flush on the sides with aluminium U-profile. Only remove the protective film from the sheets where necessary!
5. Place centre and edge profiles on the sheets.
6. Measure final profile, cut to size and attach.
7. Attach, adjust and screw on the prepared sheets one after the other. The marked protective films should face outwards - UV protection!
8. Measure the final sheet, cut to size, fit with profiles and install.
9. Attach retaining and final bracket.
10. Remove protective films from the sheets.

Please comply with our comprehensive installation instructions, which are enclosed in every product pack.

System components

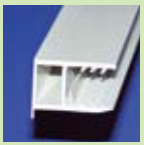


Centre profile 10 or 16 mm
2-part, with integrated sealing lips, for sheet connections

Stainless steel metal screws, 6.3 x 50 mm
Head 3/8" with seal, for screwing the profiles on a metal structure

Stainless steel metal screws, 6.3 x 50 mm
Head 3/8" with seal, for screwing the profiles on a metal structure

Final profile 10 mm
with weather groove, for the lower end of the sheets

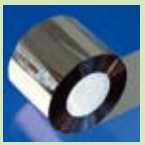


Final profile 16 mm
with weather groove, for the lower end of the sheets

Final and retainer bracket for centre profile 10 and 16
80 x 30 x 30 mm
2 off with screws

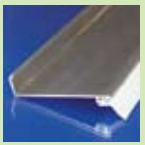
Edge profile 10 or 16 mm
with integrated sealing lips for side fastening

Final and retainer bracket for centre profile 10 and 16
40 x 30 x 30 mm
2 off with screws



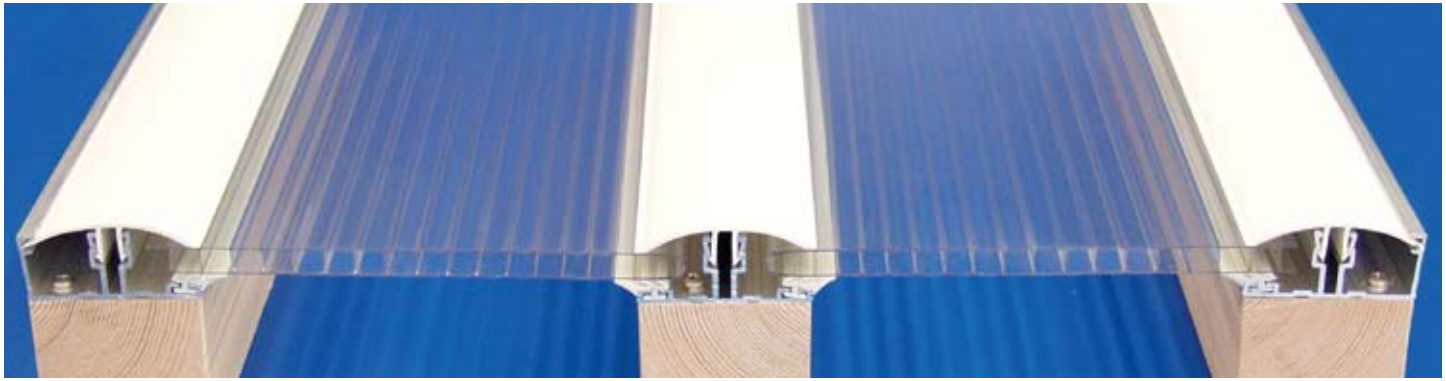
Adhesive tape, silver
60 mm x 50 m
for application to the supporting surfaces

Edging tape
self-adhesive,
38 mm x 15 m
silver with membrane



Aluminium wall junction profile
bright, with sealing lip, for flexible wall junctions with a pitch of 8 – 18 degrees

Special silicone
310 ml cartridge, for sealing and adhesion, plastic compatible



❷ guttagliss PVC clamp cover profile

Inexpensive and visually attractive aluminium support profile with white, weather-resistant PVC clamp cover for 10 and 16 mm thick sheets.

Installation instructions:

1. Preparing the supporting structure: Apply silver adhesive tape to the top of the rafters and joists, or paint white.
2. Where necessary, cut profiles and sheets to required length. Take account of roof protrusions! The sheets can also be ordered to size.
3. Stick edge closing tape on the top of the sheets. Close bottoms flush on the sides with aluminium U-profile. Only remove the protective film from the sheets where necessary!
4. Pilot drill (dia. 5 mm) profile supports at distances of 35 cm, alternately left and right. The first hole down is made after 8 cm.
5. Fix retaining and final bracket from below to the bottom of the profile.
6. Attach prepared profile bottoms. The retaining and final brackets can completely protrude (where not possible disengage the rafters). Precisely align profiles, fix in place with clamps and screw on.
7. In sequence, always attach, align and fix in place two sheets. Attached top edge and centre profiles, and engage one by one starting from one side. With 10 mm sheets in the second groove! The marked protective films should face outwards - UV protection!
8. Continue until the final sheet. This should then be measured and cut to size, where necessary, and installed with the edge profile.
9. Remove protective films from the sheets.

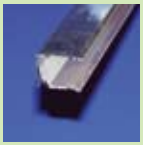
Please comply with our comprehensive installation instructions, which are enclosed in every product pack.

System components

Centre profile 10/16 mm
for 10 and 16 mm thick sheets, with 2 incorporated sealing lips and PVC clamp cover

Stainless steel wood screws, 4.5 x 35 mm
philips head, for fastening the lower profiles on timber structures

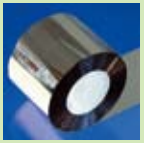
Stainless steel metal screws, 4.2 x 16mm
phillips head, for fastening the lower profiles on metal structures



Aluminum U profile 16 mm
with drip mold, semimachined for the lower sheet fastener

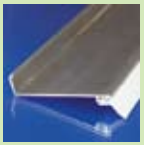
End angle and holding angle
aluminum halfround, white powdercoated
62 x 56 x 41 mm
2 pieces in bag

PVC Clamping Profile Edge
for 10 or 16 mm plates with drawn-in light-grey sealing lips and 1 PVC upper part



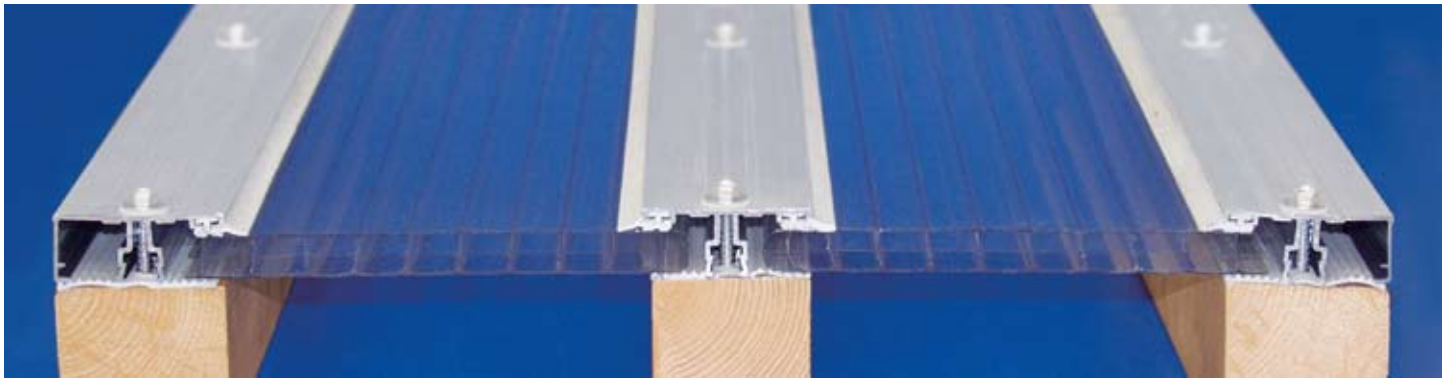
Adhesive tape, silver
60 mm x 50 m,
for application to the supporting surfaces

Edging tape
self-adhesive,
38 mm x 15 m
silver with membrane



Aluminium wall junction profile
bright, with sealing lip, for flexible wall junctions with a pitch of 8–18 degrees

Special silicone
310 ml cartridge,
for sealing and adhesion, plastic compatible



❸ guttagliss aluminium cap profile

Plain aluminium profile for 16 mm sheets.

Installation instructions:

1. Preparing the supporting structure: Apply silver adhesive tape to the top of the rafters and joists, or paint white.
2. Where necessary, cut profiles and sheets to required length. Take account of roof protrusions! The sheets can also be ordered to size.
3. Stick edge closing tape on the top of the sheets. Close bottoms flush on the sides with aluminium U-profile. Only remove the protective film from the sheets where necessary!
4. Pilot drill the profiles in the centre at a distance of 40 cm (dia. 7 mm). The first hole down is made after 8 cm.
5. Place and fix rubber support on the supporting structure.
6. Place first sheet, align precisely and fix with clamp. The marked protective films should face outwards - UV protection!
7. Place edge profile, align precisely, fix and screw on.
8. Place following sheet, align precisely and fix with clamp.
9. Place centre profile, align, fix and screw on.
10. Continue upto the final sheet. This should then be measured and cut to size, where necessary, and installed with the edge profile.
11. Attach retaining and final bracket from above.
12. Where necessary, fit decorative clamp cap.
13. Remove protective films from the sheets.

Please comply with our comprehensive installation instructions, which are enclosed in every product pack.

System components

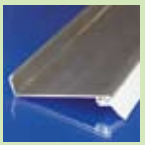
Centre profile 16 mm
for 16 mm thick sheet, with 2 incorporated sealing lips and self-adhesive rubber support

Edge profile 16 mm
for 16 mm sheet thickness, with 3 incorporated sealing lips and screw duct

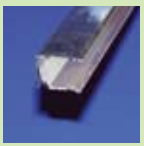
Stainless steel wood screws, 6.5 x 64 mm
3/8" head with seal, for screwing the profiles on a timber structure

Edging tape
self-adhesive, 38 mm x 15 m, silver with membrane

Stainless steel metal screws, 6.3 x 50 mm
3/8" head with seal, for screwing the profiles on a metal structure

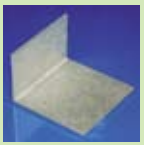


Aluminium wall junction profile
bright, with sealing lip, for flexible wall junctions with a pitch of 8 – 18 degrees



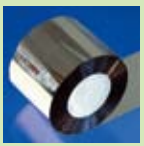
Aluminium U profile 16 mm
with weather groove, bright for the lower end of the sheets

Special silicone
310 ml cartridge, for sealing and adhesion, plastic compatible



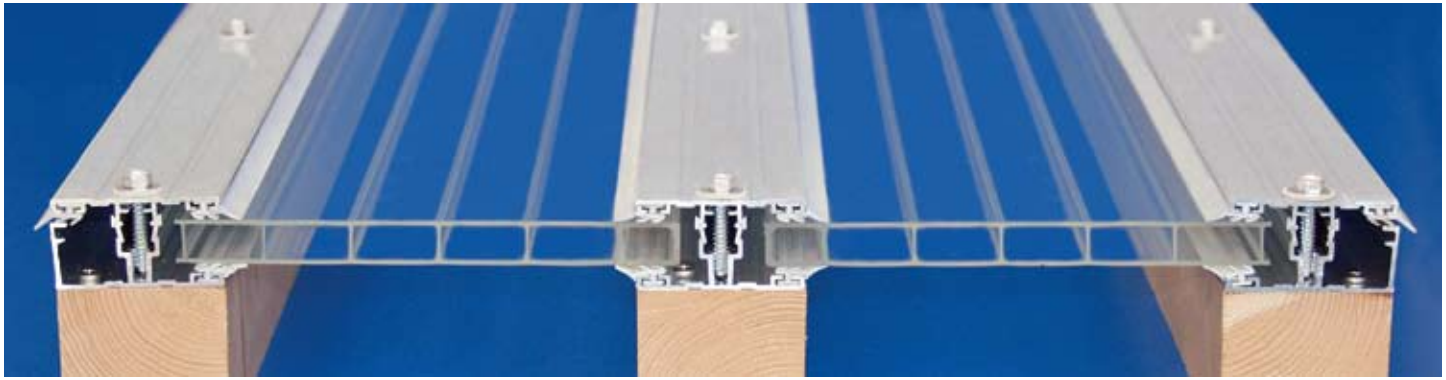
Final and retainer bracket
aluminium bright
45 x 60 x 60 mm
5 off in bag

Alu decorative clamp cap
silver anodized for all profiles with Aluminium upper parts



Adhesive tape, silver
60 mm x 50 m
for application to the supporting surfaces

Aluminium decorative clamp cap
white powder-coated or silver anodized, for all profile with aluminium top profile



❹ guttagliss aluminium screw profile

Aluminium-aluminium profile for 16 mm sheets.

Installation instructions:

1. Preparing the supporting structure: Apply silver adhesive tape to the top of the rafters and joists, or paint white.
2. Where necessary, cut profiles and sheets to required length. Take account of roof protrusions! The sheets can also be ordered to size.
3. Stick edge closing tape on the top of the sheets. Close bottoms flush on the sides with aluminium U-profile. Only remove the protective film from the sheets where necessary!
4. Pilot drill the top profiles in the centre at a distance of 40 cm (dia. 7 mm). The first hole down is made after 6 cm.
5. Pilot drill (dia. 5 mm) bottom profiles at distances of 35 cm, alternately left and right. The first hole down is made after 8 cm.
6. Fix retaining and final angle from below to the bottom of the profile.
7. Attach prepared profile bottoms. The retaining and final angles can completely protrude (where not possible disengage the rafters). Precisely align profiles, fix in place with clamps and screw on.
8. In sequence, always attach, align and fix in place two sheets. The marked protective films should face outwards - UV protection! Attach top edge and centre profiles and screw on lower profiles.
9. Continue up to the final sheet. This should then be measured and cut to size, where necessary, and installed with the edge profile.
10. Where necessary, fit decorative clamp cap.
11. Remove protective films from the sheets.

Please comply with our comprehensive installation instructions, which are enclosed in every product pack.

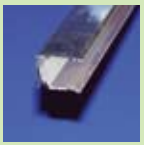
System components

Centre profile 16 mm
for 16 mm sheet thickness, with 4 incorporated sealing lips and screw duct

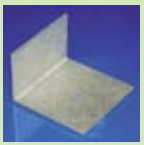
Stainless steel metal screws, 6.3 x 32 mm
head 3/8" with seal, for screwing the top profiles to the lower components

Stainless steel wood screws, 4.5 x 35 mm
phillips head for fastening the lower profiles on timber structures

Stainless steel metal screws, 4.2 x 16 mm
phillips head for fastening the lower profiles on metal structures

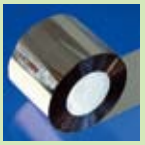


Aluminium U profile 16 mm
with weather groove, bright for the lower end of the sheets



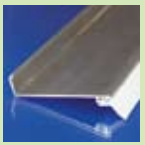
Final and retainer bracket
aluminium bright
45 x 60 x 60 mm
5 off in bag

Edge profile 16 mm
for 16 mm sheet thickness, with 3 incorporated sealing lips and screw duct



Adhesive tape, silver
60 mm x 50 m
for application to the supporting surfaces

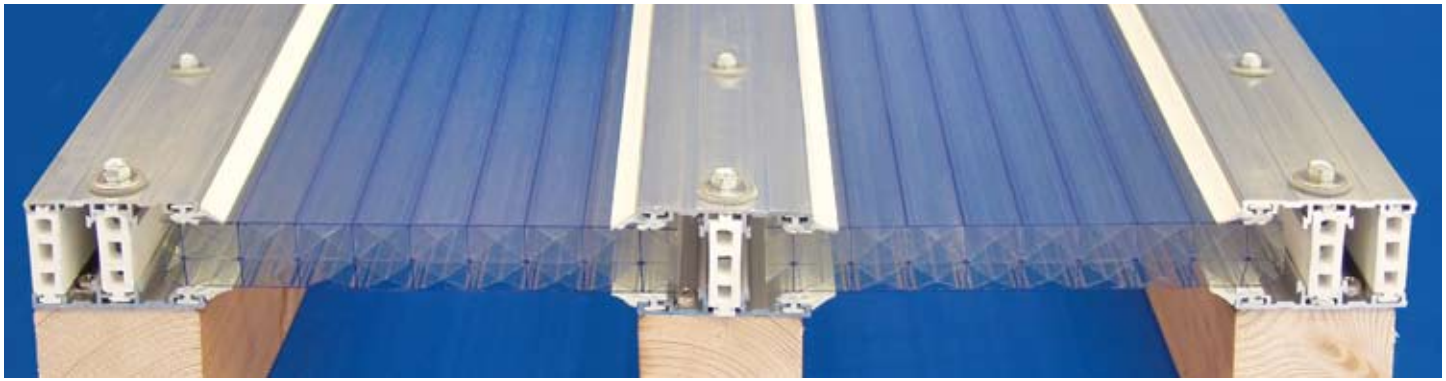
Edging tape
self-adhesive,
38 mm x 15 m
silver with membrane



Aluminium wall junction profile
bright, with sealing lip, for flexible wall junctions with a pitch of 8 – 18 degrees

Special silicone
310 ml cartridge, for sealing and adhesion, plastic compatible

Aluminium decorative clamp cap
white powder-coated or silver anodized, for all profiles with aluminium top profile



❺ guttagliss Thermoplus profile

Thermally separated aluminium profile for 25 mm sheets.

Installation instructions:

1. Preparing the supporting structure: Apply silver adhesive tape to the top of the rafters and joists, or paint white.
2. Where necessary, cut profiles and sheets to required length. Take account of roof protrusions! The sheets can also be ordered to size.
3. Stick edge closing tape on the top of the sheets. Close bottoms flush on the sides with aluminium U-profile. Only remove the protective film from the sheets where necessary!
4. Pilot drill the top profiles in the centre at a distance of 40 cm (dia. 7 mm). The first hole down is made after 6 cm.
5. Pilot drill (dia. 5 mm) bottom profiles at distances of 35 cm, alternately left and right. The first hole down is made after 8 cm.
6. Place pilot drilled top profile flush on the plastic web and pilot drill this with 5 mm dia.
7. Fix retaining and final bracket from below to the bottom of the profile.
8. Attach prepared profile bottoms. The retaining and final brackets can completely protrude (where not possible disengage the rafters). Precisely align profiles, fix in place with clamps and screw on.
9. In sequence, always attach, align and fix in place two sheets. The marked protective films should face outwards - UV protection! Attach top edge and centre profiles and screw on in plastic web.
10. Continue up to the final sheet. This should then be measured and cut to size, where necessary, and installed with the edge profile.
11. Where necessary, fit decorative clamp cap.
12. Remove the protective plastic films from the plates.

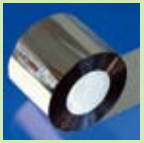
Please comply with out comprehensive installation instructions, which are enclosed in every product pack.

System components

Centre profile 25 mm
for 25 mm sheet thickness, with 4 incorporated sealing lips and spacer web

Edge profile 25 mm
for 25 mm sheet thickness, with 2 incorporated sealing lips and 2 spacer webs

Stainless steel metal screws, 6.3 x 38 mm
head 3/8" with seal, for screwing the top profiles to the lower components.

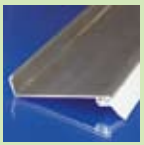


Adhesive tape, silver
60 mm x 50 m
for application to the supporting surfaces

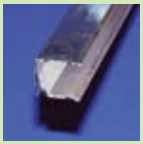
Stainless steel wood screws, 4.5 x 35 mm
phillips head for fastening the lower profiles on timber structures

Edging tape
svelf-adhesive,
38 mm x 15 m
silver with membrane

Stainless steel metal screws, 4.2 x 16 mm
phillips head for fastening the lower profiles on metal structures

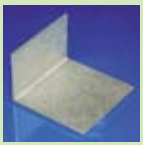


Aluminium wall junction profile
bright, with sealing lip, for flexible wall junctions with a pitch of 8 – 18 degrees



Aluminium U profile 25 mm
with weather groove, bright for the lower end of the sheets

Special silicone
310 ml cartridge, for sealing and adhesion, plastic compatible



Finaland retainer bracket
aluminium bright
45 x 60 x 60 mm
5 off in bag

Aluminium decorative clamp cap
white powder-coated or silver anodized, for all profiles with aluminium top profile

Product range

In addition to our **guttagliss twinwall sheets**, we also have many other useful products for buildings, gardens and DIY applications.

- **guttagliss corrugated sheets** of polyester, PVC, polycarbonate and acrylic resin in various corrugations with matching installation accessories.
- **guttagliss alutec system roof**. The professional complete solutionto build by yourself. For terrace, balcony, carport and pergola.
- **guttagliss flat sheets** from polystyrene or acryl, smoothly or structures for different areas of application, inside and outside.
- **guttagliss panel and easy click plus twinwall panels** of PVC or polycarbonate with tongue-and-groove joint.
- **guttanit** and **gutta do it corrugated bitumen sheets** for roofs and walls in many different styles and colours.
- **guttatec bitumen shingles** with numerous possible applications in various shapes and colours.
- **guttagarden gartentec aluminum greenhouses, garden accessories**, a copious range of planters, lawn edging, rainwater butts, garden foils, garden tiles, etc.
- **guttabeta star dimpled membrans** for improved safety when protecting foundation walls, base courses, etc.

Please ask for our comprehensive informative material !

Brochure no.: 9501127

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