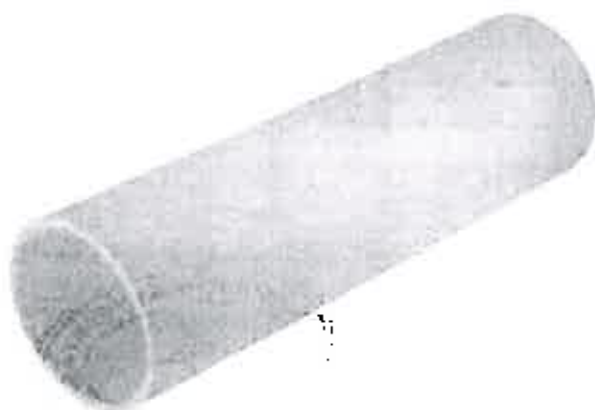
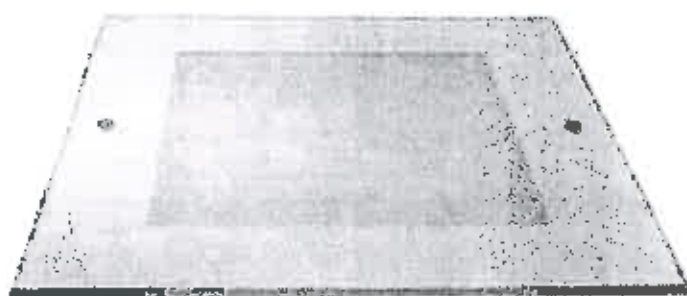


VIVALUX®



РЕЗЕРВНИ ЧАСТИ
SPARE PARTS

VIVALUX®

GLASS FOR BATHROOM FIXTURES



G/8001



G/8010



G/8002



G/8009



G/8003

ARTIKLA	PAKUP	HAPEMAN
G/8001	2230	GLASS
G/8002	2230	GLASS
G/8003	2230	GLASS
G/8009	2230	GLASS
G/8010	2230	GLASS

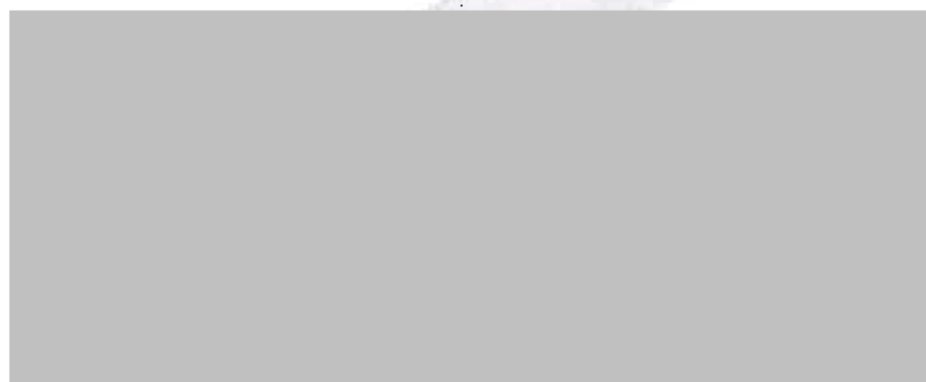




G/8011



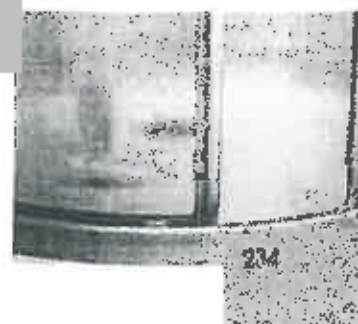
G/8014



G/8013

GLASS
CLASS

VIVOCOR®
VIVOCOR®



234

VIVALUX®

GLASS FOR LIGHTING FIXTURES



G/DOCS 2x15



G/DOCS 2x23



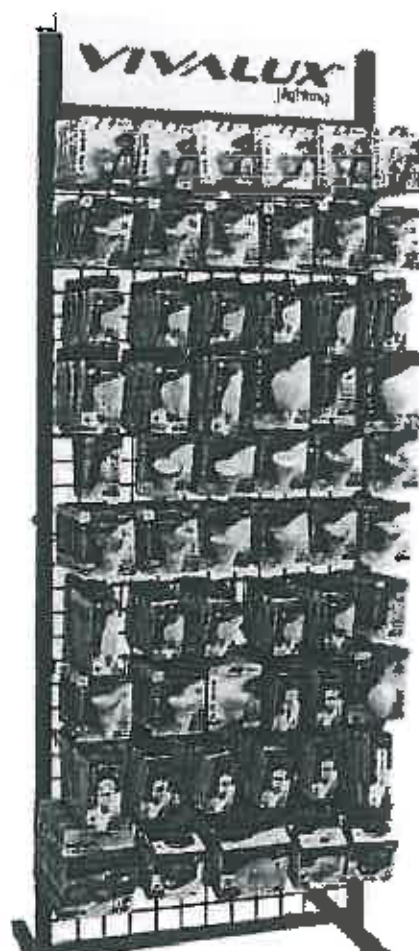
G/FLO



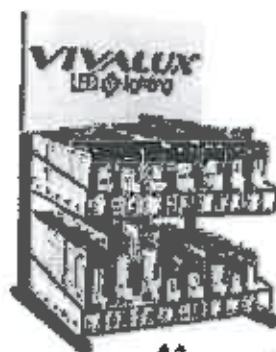
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G/DOCS 2x15	105x185
G/DOCS 2x23	210x210
G/FLO	Ø185
G/LED	Ø260



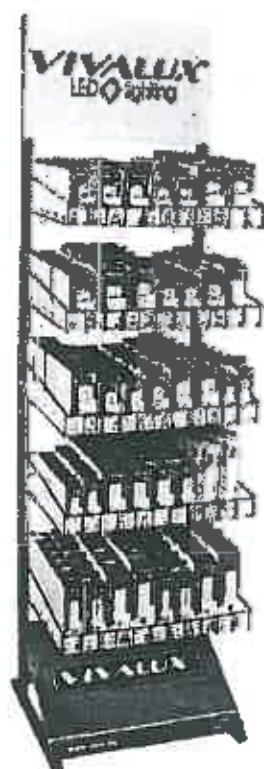
VIVALUX®



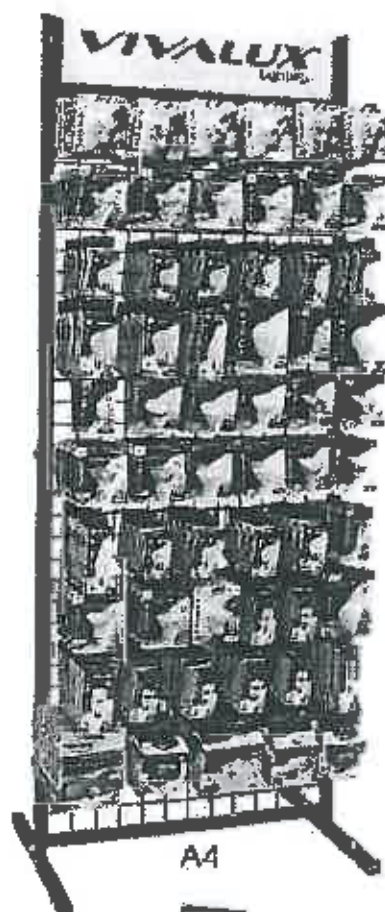
ТАБЛА, АКЦИДЕН, ШЕКАЗПИ
PANELS, DISPLAYS, STANDS



A1



A2



A4



B2



T1



АРТИКУЛ	ВИСОЧИНА	ПЪЛРИНА	ДЪЛБОЧИНА
A1	82	42	40
A2	170	42	40
A3	80	44	42
A4	108	60	60
B1	74	18	20
B2	70	37	35
T1	88	44.8	12

С
ЛА



D1



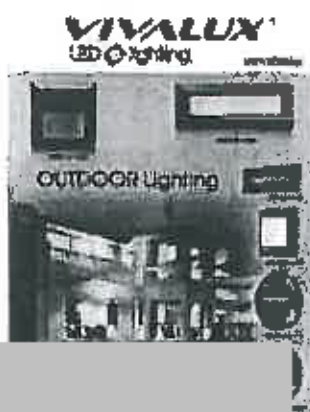
D2



E1



D3
D4
E1
C1



C1

80
80
160
200

80
80
40
70

40
40
40

WATER COMPAN / INDEX SYMBOLS

[illegible]

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FRAGATA CARBONI / INDEX SYMBOLS

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VW000548	COLOR LED 660 TM E27 White 640	380022802286	154
VW000549	GOLDEN LED 660 TM E27 Red	380022802287	154
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WV004069	DL700 BR PARCZ	15002280000000	56
WV004070	DL700 W PARCZ	15002280000000	57
WV004071	DL700 BR PARCZ	15002280000000	58
WV004072	DL700 W PARCZ	15002280000000	59
WV004073	DL700 BR PARCZ	15002280000000	60
WV004074	DL700 W PARCZ	15002280000000	61
WV004075	DL700 BR PARCZ	15002280000000	62
WV004076	DL700 W PARCZ	15002280000000	63
WV004077	DL700 BR PARCZ	15002280000000	64
WV004078	DL700 W PARCZ	15002280000000	65
WV004079	DL700 BR PARCZ	15002280000000	66
WV004080	DL700 W PARCZ	15002280000000	67
WV004081	DL700 BR PARCZ	15002280000000	68
WV004082	DL700 W PARCZ	15002280000000	69
WV004083	DL700 BR PARCZ	15002280000000	70
WV004084	DL700 W PARCZ	15002280000000	71
WV004085	DL700 BR PARCZ	15002280000000	72
WV004086	DL700 W PARCZ	15002280000000	73
WV004087	DL700 BR PARCZ	15002280000000	74
WV004088	DL700 W PARCZ	15002280000000	75
WV004089	DL700 BR PARCZ	15002280000000	76
WV004090	DL700 W PARCZ	15002280000000	77
WV004091	DL700 BR PARCZ	15002280000000	78
WV004092	DL700 W PARCZ	15002280000000	79
WV004093	DL700 BR PARCZ	15002280000000	80
WV004094	DL700 W PARCZ	15002280000000	81
WV004095	DL700 BR PARCZ	15002280000000	82
WV004096	DL700 W PARCZ	15002280000000	83
WV004097	DL700 BR PARCZ	15002280000000	84
WV004098	DL700 W PARCZ	15002280000000	85
WV004099	DL700 BR PARCZ	15002280000000	86
WV004100	DL700 W PARCZ	15002280000000	87
WV004101	DL700 BR PARCZ	15002280000000	88
WV004102	DL700 W PARCZ	15002280000000	89
WV004103	DL700 BR PARCZ	15002280000000	90
WV004104	DL700 W PARCZ	15002280000000	91
WV004105	DL700 BR PARCZ	15002280000000	92
WV004106	DL700 W PARCZ	15002280000000	93
WV004107	DL700 BR PARCZ	15002280000000	94
WV004108	DL700 W PARCZ	15002280000000	95
WV004109	DL700 BR PARCZ	15002280000000	96
WV004110	DL700 W PARCZ	15002280000000	97
WV004111	DL700 BR PARCZ	15002280000000	98
WV004112	DL700 W PARCZ	15002280000000	99

Символ Sign	Обозначение Interpretation
	Запитываем 230В / Power supply 230V
	Запитываем 12В / Power supply 12V
	Запитываем 12В, питание через блок питания или / Power supply 12V, alternating or direct current
	Работает от тока / Works frequency
	Напиток на 12В / Works frequency / Lamp works power
	Обозначение лампы ЛР44 / Index of designation ЛР44
	Лампа 12В / Lamp base 12V
	Цоколь Е14 / Lamp base Е14
	Цоколь Е14 / Lamp base Е14
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ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ № EC/19/2006/eng

06

Стр.: 1/2

1. Търговско наименование на продукта: Основен битумен слой BALTBIT PF 160
2. Съгласувана техническа спецификация: PN-EN 13707:2006 IDT. EN 13707:2004 Гъвкави мембрани за хидроизолация – Армирани битумни мембрани за хидроизолация – Дефиниции и характеристика
3. Производител: ICOPAL SA Zdunska Wola, ул. Ласка 169/197 – Полша
4. Описание на продукта:
1 м. x 7,5 м. x 3 мм.; SBS /стирол-бутадиен-стирол/ модифицирана битумна мембрана с основа от полиестерен воал, горна страна – пясък, долната страна - фолио. Информация относно характеристиките на продукта – на стр. 2.
5. Начин на полагане на продукта: газопламъчно заваряване, основен пласт в многословни системи за покривна хидроизолация.
6. Общи условия за полагане, съхранение и транспорт на продукта:
 - а) мембраната не трябва да се полага при температура под 0 °C, мокра повърхност на покрива, залежаване на покрива, по време на валеж от дъжд или сняг, или при силен вятър
 - б) хидроизолацията трябва да се направи съгласно технически проект, в съответствие със задължителните строителни нормативи и подробните насоки, включени в инструкциите за полагане от производителя.
 - в) рулата трябва да са защитени от влага и слънчево нагряване, да бъдат далеч от топлинен източник, да се съхраняват на равна повърхност в изправено положение, на един пласт
 - г) рулата трябва да се превозват в покрити камиони, в изправено положение на един пласт, да са добре укрепени и предпазени от каквото и да е друго увреждане. Рулата трябва да са поставени така, че да не се допусне разместването им по време на транспорт.
7. Сертифицираща институция и сертификат:
№ 1434 PCBC отдел Гданск, 80-286 Гданск, ул. Яшкова долина 81
Сертификат за фабричен производствен контрол № 1434 – CPD – 0048

Здунска Вола, 12 юли 2006

ICOPAL S.A.
ул. Ласка 169/197
98-220 Здунска Вола,
Полша

	Характеристика	Метод на изпитване/ Класификация	Мерни единици	Стойност
1.	Видими дефекти	PN-EN 1850-1:2002	—	без видими дефекти
2.	Дължина (*)	PN-EN 1848-1:2002	м	$\geq 7,5$
3.	Широчина (*)	PN-EN 1848-1:2002	м	$\geq 0,99$ ($1,00 \pm 0,01$)
4.	Праволинейност	PN-EN 1848-1:2002	—	отклонение: \leq 15 мм/7,5 м, или пропорционална за други дължини
5.	Дебелина	PN-EN 1849-1:2002	мм	$3,0 \pm 0,2$
6.	Водоплътност	PN-EN 1928:2002 Метод А	—	устойчива на 10 кПа
7.	Реакция на пожар	PN-EN ISO 11925-2:2004 PN-EN 13501-1:2004	—	Клас F
8.	Свойства при опън: максимална якост на опън - надлъжна посока, - напречна посока	PN-EN 12311-1:2001	N/50 мм	800 ± 200 600 ± 200
9.	Свойства при опън: относително удължение - надлъжна посока, - напречна посока	PN-EN 12311-1:2001	%	50 ± 10 60 ± 10
10.	Гъвкавост при ниска температура	PN-EN 1109:2001	°C	-15 / Ø30 мм
11.	Устойчивост на протичане при повишена температура	PN-EN 1110:2001	°C	90
12.	Паропреминаване	PN-EN 1931:2002 PN-EN 13707:2006	—	$\mu=20\ 000$

(*) има възможност мембраната да бъде произведена с различна дължина и/или широчина, но не по-ниска от обявената.

ICOPAL S.A.
ул. Ласка 169/197
98-220 Здунска Воля
Полша



Transparent twinwall sheets



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

**guttaglass 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.

**guttaglass acrylic 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.

guttaglass 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



The material

guttaglass 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. guttaglass dual twinwall sheets are impact resistant and easy to process.

Get guttaglass dual twinwall sheets when you require especially sturdy and durable sheets with excellent thermal insulation in various sheet thicknesses.

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

guttaglass dual easy clean

The guttaglass 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 for growing greenhouses.

guttaglass dual thermostat

Due to a thickness of 26 mm, the guttaglass dual thermostat 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.

guttaglass dual sunstar

In addition to the excellent static and thermal properties of the dual thermostat, the guttaglass 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, and 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 guttaglass accessories for installation purposes.

Warranty

On our guttaglass 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 retitting costs, nor other losses due to breakage; the warranty starts from the date of sale.

Further information is provided in our warranty for guttaglass 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.

Technical data

Sheet type	duel	duel	duel	duel easy clean	duel thermobar	duel sunstar
Sheet thickness (mm)	8	10	16	16	26	25
Sheet length (mm)	2000-8000	2000-8000	2000-8000	2000-8000	2000-8000	5000-6000
Sheet width (mm)	1050	1050	980, 1200	980, 1200	980, 1200	980
Twist width (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 rate (%)						
clear	82	80	78	76	44	-
opal-white	-	-	48	-	40	40
bronze	-	35	35	-	-	-
Heat transmission K value (W/m² K)	3.6	3.0	2.4	2.4	1.6	1.6
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	1760	2800	2800	4375	4375
UV protection	Both sides	Both sides	Both sides	Both sides	One-sided Ops/ Both sides	Both sides

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

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
 $0,065 \times 3 \times 20 = 3,9 \text{ mm}$

guttaglass 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
- Very good insulating properties

Applications

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



The material

guttaglass 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 guttaglass 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 guttaglass acryl sz twinwall sheets are virtually maintenance-free.

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

guttaglass acryl sz panorama

The guttaglass acryl sz panorama achieves a panorama effect with high transparency due to the ex-

guttaglass acryl sz heatplus

The special coating of the guttaglass 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, and 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 guttaglass accessories for installation purposes.

Warranty

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

Flexural E-module (even):	85 % 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 modified.
- 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 retrofitting costs, nor other losses due to breakage; the warranty starts from the date of sale.

Further information is provided in our warranty for guttaglass 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

Technical data for acrylic twinwall sheets

Sheet type	acryl	panorama	heat plus
Sheet thickness (mm)	16	16	16
Sheet length (mm)	2000 ~ 8000	2000 ~ 8000	2000 ~ 8000
Sheet width (mm)	980, 1200	980, 1200	980
Twinwall width (mm)	32	98	16
GSM approx. (g/m²)	4000	4780	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:

$$0.07 \times 3 \times 20 =$$

10

Preconditions



Storage

Do not store in direct sunlight. When storing in a stack there is a risk of deformation in the event of direct radiation. 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 guttaglies 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 guttaglies 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 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 guttaglass dual twinwall sheets

Load (kg/m²)	Thickness Width	Sheet type					
		6	10	18	18	25	25
		1050	1050	880	1200	880	1200
75		1500	2000	4000	2500	*	*
90		1000	1500	3000	2000	*	*
125		1000	1600	2000	1500	*	*
150		1000	1400	2000	1500	*	*
175		**	1500	1800	1300	*	*
200		**	1000	1600	1000	*	2500

all measurements in mm

* Transverse support required ** not suitable

Support spacing for acryl sz twinwall sheets

Load (kg/m²)	Thickness Width	Sheet type			
		acryl / heat plus		panorama	
		18	16	18	16
		980	1200	880	1200
75		3000	4000	3500	2500
90		4900	5000	2500	1800
125		3900	2200	1800	1350
150		3100	1600	1200	1000
175		2700	1200	950	750
200		2400	900		

all measurements 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

guttaglass 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

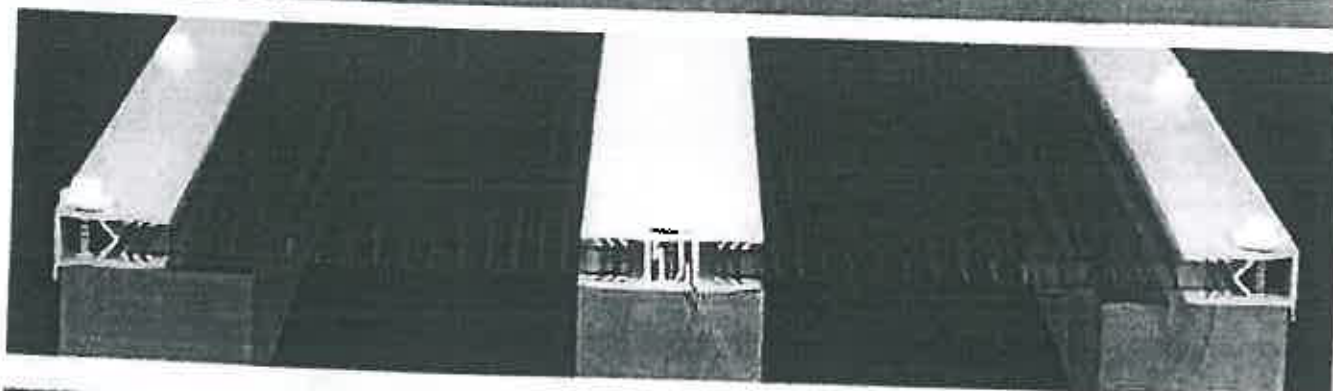
guttaglass twinwall sheets are installed with suitable profiles, so that drilling is not normally required. Where drilling is required due to the design, the drilled holes must be 50% larger than the screw diameter. Where possible, use a guttaglass plastic centre bit (Art. No.: 3410241).



Cleaning

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

Installation systems



1. Putting the guttering 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 protrusion! 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 lip, for sheet
connections



Edge profile
10 or 16 mm
with integrated sealing
lip for edge fastening



Stainless steel metal
bracket, 6.3 x 50 mm
2-part with seal,
for screwing the
profile on a metal
structure



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



Stainless steel metal
screws, 6.3 x 50 mm
Head 3/8\"/>



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



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



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



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



Aluminium wall
junction profile
bright, with sealing lip,
for double wall junctions
with a ruck of 3 - 18
degrees

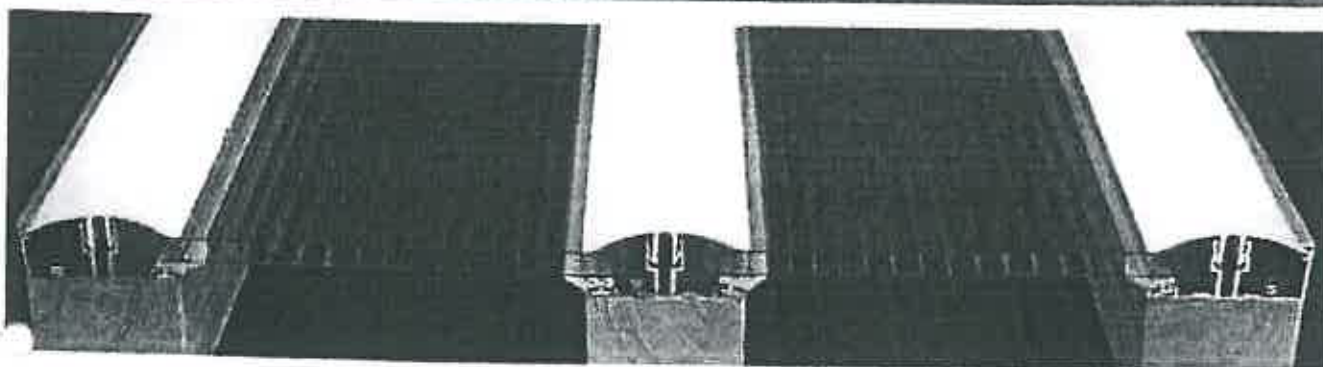


Pin and retainer
bracket for centre
profile 10 and 16
40 x 30 x 80 mm
2 off with screws



Special edging
210 ml cartridge, for
sealing and adhesion,
silver compatible

Installation systems



gutterline PVC clamp cover profile

System components

Inexpensive and visually attractive aluminum 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 aluminum 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 5 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 which are enclosed in every product pack.



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 phillips head, for fastening the lower profiles on timber structures



Stainless steel self-drilling screws, 4.2 x 18 mm phillips head, for fastening the lower profiles on metal structures



Aluminum U-profile 15 mm with clip mold, semi-circular for the lower sheet fastener



End angle and holding angle aluminum half-round, white powdercoated 82 x 58 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 surface



Edging tape self-adhesive, 30 mm x 15 m silver with membrane

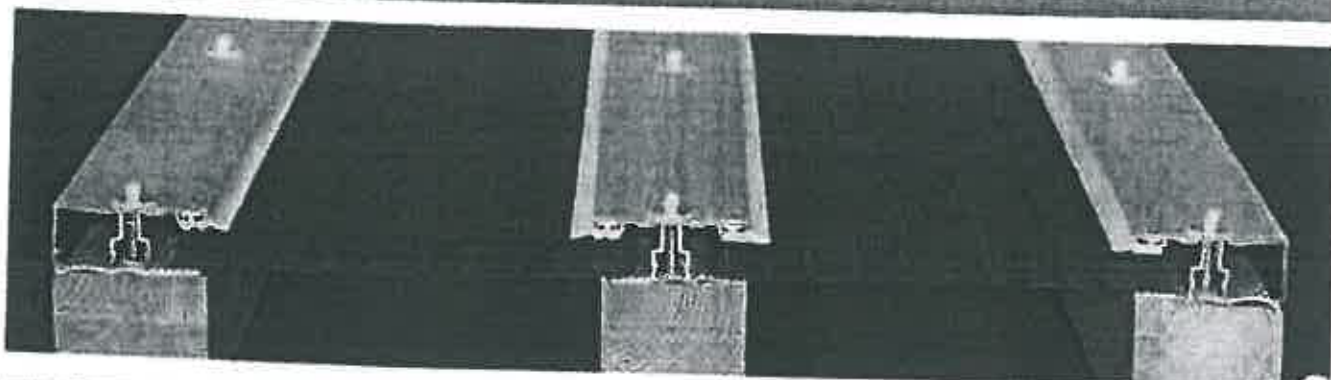


Aluminum Wall junction profile bright, with sealing lip, for flexible wall junctions with a pitch of 4-15 degrees



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

Installation systems



Puttaglass aluminium cap profile

Plan 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 protrusion! 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 up to 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 company which are enclosed in every pack.

System components



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



Stainless steel wood screws, 3.5 x 64 mm 3/8" head with seal, for fastening the profiles on a timber structure



Stainless steel metal screws, 3.5 x 60 mm 3/8" head with seal, for fastening the profiles on a metal structure



Aluminium U-profile 15 mm with weather groove, bright for the lower end of the sheets



Final and retaining bracket aluminium bright 45 x 40 x 60 mm 5 g/m bag



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



Edge profile 16 mm for 16 mm sheet thickness, with 2 incorporated sealing lips and screw clut



Sealing 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 cohesion, plastic compatible

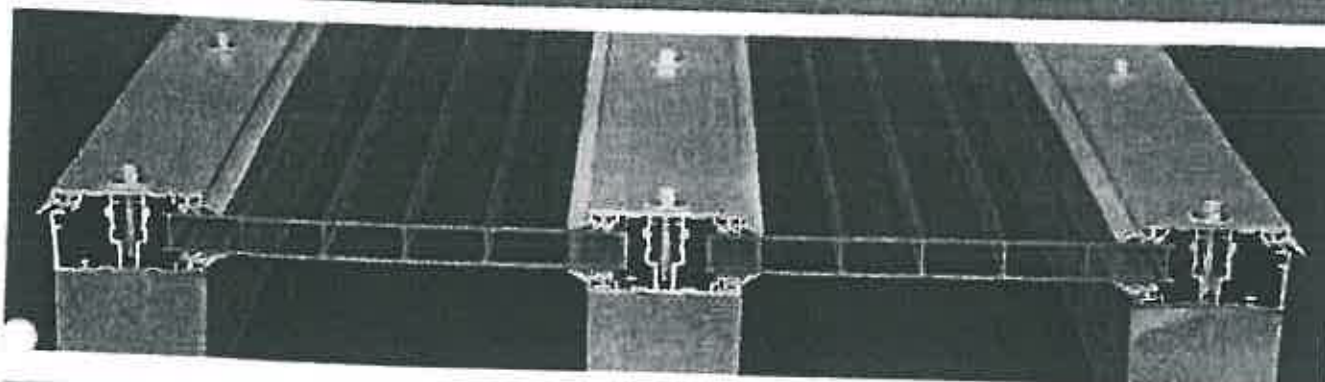


All decorative clamp cap silver anodized for all profiles with aluminium cap parts



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

Installation systems



1 gutter with aluminium screw profile

Aluminium-aluminium profile for 18 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 profile 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 18 mm for 18 mm sheet thickness, with 4 incorporated sealing lips and screw caps.



Stainless steel metal screws, 4.2 x 32 mm head 9.8° with seal for screwing the top profile to the lower component.



Stainless steel wood screws, 4.8 x 36 mm Phillips head for fastening the lower profile on timber structures.



Stainless steel metal screws, 4.2 x 16 mm Phillips head for fastening the lower profile on metal structures.



Aluminium U-profile 18 mm with weather groove, bright for the tops and of the sheets.



Final and retaining bracket aluminium bright 45 x 60 x 60 mm 6 off in bag.



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



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



Edging tape self-adhesive, 35 mm x 15 m silver with membrane.



Aluminium wall junction profile bright, with sealing lip, for flexible wall junctions with a pitch of 5 - 15 degrees.

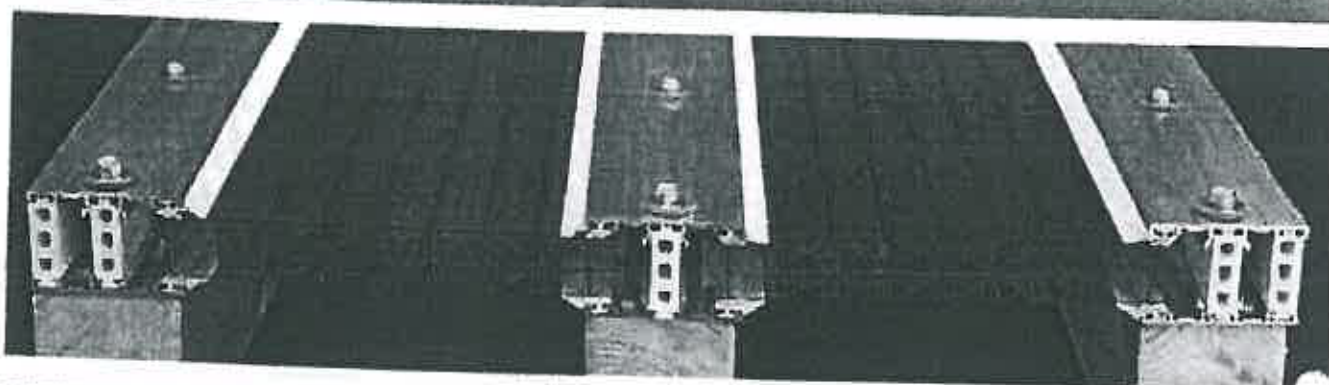


Special silicone 310 ml cartridge, for testing acid adhesion, plastic compatible.



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

Installation systems



Thermally separated aluminum profile

System components

Thermally separated aluminum 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 protrusion! The sheets can also be ordered to size.
3. Stick edge closing taps on the top of the sheets. Close bottoms flush on the sides with aluminum 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 5 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 5 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 our comprehensive installation instructions, which are enclosed in every product pack.



Centre profile 26 mm for 25 mm sheet thickness, into 4 incorporated sealing lips and spacer web



Stainless steel metal screw, 6.3 x 35 mm head 3/8" with seal, for securing the top profile to the lower component



Stainless steel wood screws, 4.5 x 25 mm Phillips head for fastening the lower profiles on timber structures



Stainless steel metal screws, 4.5 x 16 mm Phillips head for fastening the lower profiles on metal structures



Aluminum U-profile 25 mm with weather groove, useful for the lower end of the sheets



Finland retaining bracket aluminum angle 45 x 60 x 60 mm 3 off in bag



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



Adhesive tape, silver 40 mm x 50 m for application to the supporting surfaces



Edging tape, self-adhesive, 25 mm x 15 m silver with membrane



Aluminum wall junction profile bright, with sealing lip, for flexible wall junctions with a pitch of 5-15 degrees



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



Aluminum decorative clamp cap white powder-coated or silver anodized, for all profiles with shuttering cap profile

Product range

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

- **guttaliss corrugated sheets** of polyester, PVC, polycarbonate and acrylic resin in various corrugations with matching installation accessories.
- **guttaliss alutec system roof**. The professional complete solution to build by yourself. For terrace, balcony, carport and pergola.
- **guttaliss flat sheets** from polystyrene or acrylic, smoothly or structures for different areas of application, inside and outside.
- **guttaliss 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 membranes** for improved safety when protecting foundation walls, base courses, etc.

Please ask for our comprehensive informative material !

Brochure no.: 9501127

gutta

www.gutta.com



Declaration of Performance: N. GPR-01-FLUXIDAL F

1. Unique identification code of the product-type:
FLUXIDAL F
2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4):
See Delivery Note
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:
**EN 934-2:2009+A1:2012 Table 10
Set retarding/water reducing/plasticizing admixtures**
4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required under Article 11(5):
**RUREDIL SpA
Via Bruno Buozzi, 1
20097 San Donato Milanese
Milan
Italy**
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
NOT APPLICABLE
6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
2+
7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:
**ICMQ SPA- n. 1305
performed**
 - I) initial inspection of the manufacturing plant and of factory production control;
 - II) continuous surveillance, assessment and evaluation of factory production control.**under system 2+ and issued certificate of conformity of the factory production control.**
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment is required:
NOT APPLICABLE

9. Declared performance

Essential characteristics	Performance	Harmonised technical specification
Chloride ion content	Chloride free	EN 934-2:2009 +A1:2012
Alkali content	< 3,50 %	
Corrosion behaviour	Contains components from EN 934-1:2008, Annex A.1	
Compressive strength	At equal consistence: At 28 days: test mix \geq 100% of control mix	
Air content	Test mix \leq 2% by volume above control mix unless stated otherwise by the manufacturer	
Air content (entrained air)	NPD	
Air void characteristic	NPD	
Water reduction	In test mix \geq 5% compared with control mix	
Bleeding	NPD	
Setting time	Initial: test mix \geq control mix + 90 min Final: test mix \leq control mix + 360 min	
Hardening time/strength development	NPD	
Capillary absorption	NPD	
Consistency	NPD	
Dangerous substances	Complies with	DL 14/03/2003 n. 85 (Directive 1999/46/EC) and further amendments 1907/2006/EC
Durability	Durability relates to the concrete incorporating admixtures	
Segregated portion	NPD	EN 934-2:2009 +A1:2012

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used,

NC

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

DR. GIOVANNI MANTEGAZZA – Technical Director – In charge of CE marking

San Donato Milanese, 2014-02-28





Abstract

Ng 4.4

DEKORATOR ЛАТЕКС

Супер Бял

TC 4-2003

Устойчиво декоративно покритие за вътрешно боядисване на подна основа.

МЕГАХИМ АД

гр. Русо- 7000, бул. "Ленинск", № 123.

e-mail: office@megachim.com; tel: 082 / 817-721;

факс: 082/017-725

Но в приложении

В в приложении

7. Деклариращи показатели на характеристиките на строителния продукт:

Характеристики	Показатели	Методи за изпитване
Външен вид след разбъркване	Хомогенна маса	визуално
Съдържание на нелетливи вещества, $(105 \pm 2)^{\circ}\text{C} / 2 \text{ h}$, не по-малко от:	60	ВФМ 2
pH стойност	от 7,5 до 10	с pH-метър
Вискозитет по Врукфилд KU-2 при $(23 \pm 0,5)^{\circ}\text{C}$, κ KU не по-малко от	90	ВФМ 9
Плътност, в g/cm^3 , не по-малко от	1,5	БДС ISO 2811-1
Съединител при $(23 \pm 2)^{\circ}\text{C}$, степен 4, в h	2	ВФМ 3
Цвят	Бял	Визуално

3. Характеристиките на строително-монтажните работи, подлежащи на деклариране, съгласно т. 7.

Тази декларация за характеристика на производителя съгласно т. 4 или

Подписано за и от името на проп.

Дата: 03.05.2016 г.
г. Русе



Мегахим АД, Русе, бул. Липник 123 ; тел. 082 617 721, fax : 082 617 725

Техническо описание

Dekorator
ЛАТЕКС
Супер бял

Определение

Устойчиво декоративно покритие за вътрешно боядисване на водна основа. Покритието се отличава с висока покривност и белота.

Класификация

- Водоразредим продукт
- Свързващо вещество – полимерна дисперсия
- За интериорна употреба
- Цветова гама: бял

Отговаря се с пигментни пасты на водна основа.

Състав

Водна полимерна дисперсия, пигменти, пълнители, добавки.

Показатели

№	Показатели	Характеристика и норми	Метод
	На продукта		
1.	Външен вид след разбъркване	Хомогенна маса	визуално
2.	Съдържание на летливи вещества, $(105 \pm 2)^{\circ}\text{C} / 2 \text{ h}$, в %, не по-малко от	60	ВФМ 2
3.	pH стойност	от 7,5 до 10	с pH метър
4.	Вискозитет по Брукфийлд KU-2 при $(23 \pm 0,5)^{\circ}\text{C}$, в KU, не по-малко от	90	ВФМ 9
5.	Плътност, в g/cm^3 , не по-малко от	1,5	БДС ISO 2811-1
	На покритието		
6.	Съхливост при $(23 \pm 2)^{\circ}\text{C}$, степен 4, в h, не повече от	2	ВФМ 3
7.	Покривност, в g/m^2 , не повече от	200	ВФМ 6
8.	Външен вид	Равен, гладък	Визуално
9.	Цвят		



Магазин АД, Руса, бул. Липник 123 ; тел. 082 817 721, факс : 082 817 725

Начин на употреба:

Преди употреба боята трябва да се разбърка добре. Нанася се с четка или валик върху здрави и чисти повърхности. Нови повърхности се грундират с подходящ грунд за стени. Следващ слой се нанася след пълно изсъхване на предходния. Може да се тонира с пигментни пасты на водна основа. Работи се при температура над 10°C. След работа инструментите се почистват веднага с вода.

Разреждане:

Продуктът се достига готов за употреба. При необходимост може да се разрежи с вода до 5%

Разход:

90-100 ml/m² в зависимост от основата за нанасяне

Съхване:

2-3 h при 20°C

Съхранение:

Съхранява се в сухи и закрити складови помещения, защитени от преки слънчеви лъчи. Да се пази от замръзване.

Срок на съхранение

24 месеца от датата на производство

Нето:

2,5L e ; 4Le; 8,5Le; 15L±0,5%

Документация:

Всяка партида от съответния продукт се придружава от аналитно свидетелство, в което се посочват:

- Наименование на фирмата производител
 - Наименование на продукта и Техническа Спецификация
 - Норми и резултати от анализ
2003
 - Дата на пр
 - Подпис на
- а Спецификация ТС 4-

Производствен контрол

Мегахим АД е сертифицирана съгласно ISO 9001. Внедрената система за управление на качеството гарантира пълен контрол при производството на крайния продукт.

Системата обхваща три етапа:

- Входящ контрол на суровините и материалите
- Технологичен (производствен) контрол
- Изходящ (краен) контрол.

Всички резултати от контролните операции се отразяват писмено в съответни записи.

Наредбата за ограничаване на емисиите на ЛОС:

Максималното съдържание на ЛОС за този продукт (кат.: А/а) е 30 g/l

Мерки за безопасност :

Информация в Информационния лист за безопасност



Им. №. /

На вниманието на.

fondital
BE INNOVATIVE

MADE IN ITALY

ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ

С настоящата Декларация,

Долгоподписаният:
със седалище и адрес:
ЕИК:

„Ромстал България“ ЕООД,
гр. София, бул. Воеводска 276,
ВН 17537345,

ДЕКЛАРИРА

с цялата си отговорност, че:

Продуктите: **Алюминиеви радиатори MAJOR**

предлагани от компанията, са с произход: **европ**

и са произведени от: **FONDITAL SPA,**

Адрес на производителя: **25079, Vobarno, Italy**

Производството на продуктите съответства на следните стандарти
и нормативи / директиви и наредби /:

- Директива за строителните изделия 89/106/CEE;
- UNI EN 442-1:2004;
- CE MARKING;
- ISO 9001 : 2008;

„Ромстал България“ ЕООД се явява на производителя декларира, че съответствието с
важните към датата на Декларацията, не само при спазване на всички специални
действащи нормативи при експлоатацията им и на всички указания по отношение на
употреба. При
Декларацията е

Настоящата декларация
производителя
сертификати и
Закона
декларирам, че

гр. София

дата:

СОФИЯ - БЪЛГАРИЯ

Всички данни за декларацията са валидни само за периода на валидност на декларацията и не могат да бъдат използвани за други цели.

DECLARATION OF CONFORMITY

Council Directive 89/106/CEE

Herewith

FONDITAL S.p.A.
with registered offices in
via Cerreto no. 40, 25079 Vobarno (BS), It

declares that

ALUMINIUM RADIATORS FOR CIVIL HEATING SYSTEMS

manufactured by
FONDITAL S.p.A.

with Brand Name **Nova Florida**

are manufactured in compliance with attachment ZA of UNI EN 442-1:2004 Standard relative to CE marking use, and that thermal emission levels stated in the technical and commercial documentation conform in full to UNI EN 442-2:2004 Standard, as per the certification issued by:

M.R.T. Laboratory, Milan Polytechnic Department of Energy, Milan, Italy
and
CETIAT Laboratory, Villeurbanne Cedex, France.

FONDITAL S.p.A.

Head of Function
Technical Office

Declaration

DECLARAȚIE DE PERFORMANȚĂ

nr. 00121-CPR3052011

Prezentul document este eliberat în temeiul Regulamentului (UE) Nr. 305/2011 al Parlamentului European și al Consiliului din 9 martie 2011.

1. Cod unic de identificare a produsului-tip:

Radiatoare din aluminiu cu elemente

2. Identificarea produsului în temeiul articolului 11, paragraful 4 din Regulament

Model: Major S80

Marcă comercială: Nova Florida

Distanță între axe (mm): 900, 1000, 1200, 1400, 1600, 1800, 2000

Număr lot: *a se vedea eticheta aplicată produsului.*

3. Utilizare sau utilizări prevăzute ale produsului de construcție, în conformitate cu specificațiile tehnice aferente armonizate prevăzute de producător:

Radiatoare metalice cu înălțare fixă pentru construcții, alimentate cu apă sau abur (vapori) la o temperatură sub 120°C, alimentate de o sursă de căldură externă.

4. Nume, denumire comercială înregistrată sau marcă înregistrată și adresa producătorului în temeiul articolului 11 paragraf 5:

*Fondital Spa
Via Cerreto, 40
28079 Cerpaneda di Vobarno BS
Italia*

5. Mandatar: _____

6. Sistem de evaluare și verificare a constanței performanței produsului de construcție în baza anexei V a Regulamentului UE nr. 305/2011:

Sistem 3

7. Testări de tip în conformitate cu EN 12828:2003

CETIAT, Notified Body

care a eliberat certificatul

8. Acest punct nu se aplică

9. Performanță declarată

Caracteristici esențiale		Performanță						
Reacție la foc		A1						
Eliberare de substanțe periculoase		Nu						
Testare sub presiune		Trecută (2400 kPa)						
Temperatură de suprafață		120 °C Maxim și corespunde temperaturii apei de tur						
Rezistență la presiune		Trecută (3200 kPa)						
		Distanța între axe						
		900	1000	1200	1400	1600	1800	2000
Putere termică nominală în [W]	φ 30	91	86,7	110,7	123,8	134,6	148,6	157,8
	φ 50	183	185	223	249	275	298	322,8
	Km	0,8712	0,9529	1,0443	1,1784	1,1479	1,4444	1,3483
	m	1,3689	1,3740	1,3711	1,3682	1,4005	1,3823	1,4007
Putere termică în diverse condiții (curbă caracteristică)		$\phi = Km \times \Delta T^{-1}$						

10. Performanța produsului menționată la punctele 1 și 2 este conformă cu performanța punctul 9.

Se eliberează prezenta declarație de performanță pe răspunderea exclusivă a producătorului menționat la punctul 4.

Semnată în numele și din partea
Fondital Spa

Ing. Cavallini Roberto
Responsabil Birou Tehnic

Carnatedo di Vobarno, 13/08/13

/лого/	МИНИСТЕРСТВО НА ПОЛИТЕХНИКАТА, МИЛАНО – ОТДЕЛ ПО ЕНЕРГЕТИКА Лаборатория за термодинамически измервания и проверки M.R.T., потифицирана, съгласно Директива 89/106/СН – пом. 19379/04.04.2005 стандарт EN442 акредитация: № 104, издадена от: SIT, дата: 11.04.2002 г
адрес: Piazza Leonardo da Vinci, 32 - 20133 , Milano, Italy	
тел. +39 02 2399 3834 / +39 02 2399 3849,	
факс. +39 02 2399 3940 / +39 02 2399 3863	
e-mail : mrt@polina.it	

СЕ - СЕРТИФИКАТ ЗА СЪОТВЕТСТВИЕ И
Директива за строителните изделия 89 / 106 / С
№ ENE / MRT.EEC.05016

Ние, Министерство на политехниката, Милано – Лаборатория M.R.T.
проверя на резултати от тестава и декларация, представена от производителя,

УДОСТОВЕРЯВАМЕ, че

тип на термичното тапо
производител

РАДИАТОРИ

търговска марка

тип
/моделите, които отговарят
на типа, се описват в /приложение/

материал

предназначение

съответстват на
съгласно Директ

Милано
дата: 07/10/2005

Оператор
Клаудио Таран

/лого/

подпис/не се че

Всички оригинали!
Прибор от същият тип
от 4...

/догo/	МИНИСТЕРСТВО НА ПОЛИТЕХНИКАТА, МИЛАНО – ОТДЕЛ ПО ИНЖЕНЕРИКА Лаборатория за термостатически измервания и проверки M.R.T., нотифицирана, съгласно Директива 89/106/СЕ – ном. 19379/04.04.2005 съгласно стандарт EN442 издателят: № 104, издадена от: SIT, дата: 11.04.2002 г
адрес: Piazza Leonardo da Vinci, 32 – 20133, Milano, Italy	
тел. +39 02 2399 3834 / +39 02 2399 3849, факс. +39 02 2399 3940 / +39 02 2399 3863 e-mail : mrt@polimi.it	

СЕ - СЕРТИФИКАТ ЗА СЪОТВЕТСТВИЕ НА ТИПА
 Директива за строителните изделия 89 / 106
 на ENE / MRT.EEC.05016

Приложение 1.

Модела от типа	За изследвания тип, проверката на съответствието е направена относно: - размери, - топлинна мощност - тестово налягане - спад на налягането /допълнително измерени параметри от MRT Лаборатория/ Данните могат да бъдат проследени в следните документи:	Окончателното описание на моделите, които съответстват на типа, се съдържа в следните документи:
MAJOR 5/50 350 MAJOR 5/50 500 MAJOR 5/50 600 MAJOR 5/50 700 MAJOR 5/50 800 MAJOR 5/50 900 MAJOR 5/50 1000 MAJOR 5/50 1200 MAJOR 5/50 1300 MAJOR 5/50 1400 MAJOR 5/50 1600 MAJOR 5/50 1800 MAJOR 5/50 2000	15. CETIAT : 2002-549 --- --- Lab. CETIAT : 2000-933 --- --- --- --- Lab. CETIAT : 2000-534 --- Lab. CETIAT : 2000-567	ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000 ATITA 3199 – Nov. 2000

Верно с оригинал
 през 2002 г.

/лого/	МИНИСТЕРСТВО НА ПОЛИТЕХНИКАТА, МИЛАНО – ОТДЕЛ ПО ЕНЕРГЕТИКА Лаборатория за термостатически измервания и проверки M.R.T., потифицирана, съгласно Директива 89/106/СЕ – ком. 19379/04.04.2005 съгласно стандарт EN442 акредитация: № 104, издадена от: STT, дата: 11.04.2002 г
адрес: Piazza Leonardo da Vinci, 32 – 20133, Milano, Italy	
тел. +39 02 2399 3834 / +39 02 2399 3849, факс. +39 02 2399 3940 / +39 02 2399 3863 e-mail : mrt@polimi.it	

СЕ – СЕРТИФИКАТ ЗА СЪОТВЕТСТВИЕ НА ТИПА
Директива за строителните изделия 89 / 106 / СЕЕ
№ UNE / M.R.T.E.C.05016

ДОКУМЕНТАЦИЯ, ПРЕДСТАВЕНА ОТ ПРОИЗВОДИТЕЛЯ	БЕЛЕЖКИ ОТ
Молба за проверка на документацията за поставяне на маркировка СЕ.	Дата на молбата: 13/09/2005; регистриран
Снимки на продуктите и/или регистриран каталог	Документът е проверен и регистриран
Описание на продуктите	Документът е проверен и регистриран
СИ маркировка	Документът е проверен и регистриран
Дизайн	Документът е проверен и регистриран
Декларация на производителя: пожаро устойчивост	Документът е проверен

Всичко е оригинално
и е проверено

/ного/	МИНИСТЕРСТВО НА ПОЛИТЕХНИКАТА, МИЛАНО – ОТДЕЛ ПО ЕНЕРГЕТИКА Лаборатория за термостатически измервания и проверки M.R.T., нотифицирана, съгласно Директива 89/106/СЕ – ном. 19379/04.04.2005 съгласно стандарт EN442 акредитация: № 104, издадена от: SIT, дата: 11.04.2002 г.
адрес: Piazza Leonardo da Vinci, 32 – 20133, Milano, Italy	
тел. +39 02 2399 3834 / +39 02 2399 3849, факс. +39 02 2399 3940 / +39 02 2399 3861 e-mail : mrt@polimi.it	

СЕ - СЕРТИФИКАТ ЗА СЪОТВЕТСТВИЕ НА ТИПА
 Директива за строителните изделия 89 / 106 / СЕЕ
 № ENЕ / MRT.EEC.05016

ДОКУМЕНТАЦИЯ, ПРЕДСТАВЕНА ОТ ПРОИЗВОДИТЕЛЯ	БЕЛЕЖКИ ОТ ЛАБОРАТОРИЯ МРТ
Декларация на производителя: тест за устойчивост на покритието	Документът е проверен и регистриран
Декларация на производителя: за липса на токсични вещества в боята	Документът е проверен и регистриран
Декларация на производителя: за произходен контрол на място	Документът е проверен и регистриран

Нар
 Прев
 2

POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA
Laboratorio Misure Ricerche Termotecniche M.R.T.
 Laboratorio stabilito in virtù della direttiva 89/106/CEE del Parlamento delle Nazioni Unite, Prot. N. 19379, 04 Aprile 2004.
 Laboratory notified according to 89/106/CEE Directive by Italian Ministry in charge, Prot. N. 19379, 04 April 2004.
 Laboratorio di riferimento conforme a EN 442: Referring Laboratory according to EN 442
 Accredited to: Assessment report No.: 176 164. Riferito da / issued by: SET. Data / date: 11/04/2003
 Indirizzo Anagrafe: Piazza Leonardo da Vinci, 32 - 20133 Milano - ITALY
 Phone: +39 02 2399 3634 or +39 02 2399 3649, fax: +39 02 2399 3940 or +39 02 2399 3963, e-mail: info@polimi.it

Attestato C E di Tipo
CE Type examination
Direttiva Prodotti da Costruzione 89/106/CEE
Construction Product Directive 89/106/CEE

Documento n°: RNE/MRT.BEC.DS016

Il Politecnico di Milano - Laboratorio Misure e Ricerche Termotecniche - M.R.T.
 esamina i Rapporti di Prova e la Documentazione fornita dal Costruttore
Politecnico di Milano - M.R.T. Laboratory
 after examination and verification of test reports and declarations furnished by Manufacturer

DICHIARA / ATTEST

Tipo di corpo riscaldante / Type of heating body: **RADIATORI / Radiator**

Fabbricante da / Manufactured by: **FONDITAL S.p.A.**
 Via Mazzini, 123
 25078 - Vestone (BS)

Marchio commerciale / Trade mark: **NOVA FLORIDA**

Gamma
 I modelli che compongono la
 Gamma sono elencati in Tabella 1
 Type
 Models that constitute the
 Type are written in Table 1
MAIOR S/90

Materiale / material: **ALLUMINIO / Aluminium**

Designazione / designation: **Radiatore componibile a ele
 con circolazione d'acqua vert
 Modular radiator, with vertica**



POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratory certified in accordance with ISO/IEC 17025/CEI del Ministero delle Attività Produttive, Prot. N. 19379/04 April 2005
Laboratory notified according EN ISO/IEC 17025/CEI Direzione by Regione Lombardia in charge, Prot. N. 19379/04 April 2005

Laboratorio di riferimento conforme a EN 442/Reference Laboratory according EN 442
Accreditamento n° 1/Armando/Prova/No. 19379/04

Director of Activity: P. Rossi, Via Leonardo da Vinci, 32 - 20133 Milano - ITALY
Data/Date: 11/06/2005

Phone: +39 02 2399 3814 or +39 02 2399 3940; Fax: +39 02 2399 3940 or +39 02 2399 3943; e-mail: eno@polimi.it

Attestato C E di Tipo
CE Type certification

Direttiva Prodotti da Costruzione 89/106/CEE
Construction Product Directive 89/106/CEE

Documento n°: ENE/MRT.EHC.05016

Tabella 1

Modelli della Gamma

Models of the Type

La verifica di conformità riguardante:

- Grandezze dimensionali;
- Potenza termica;
- Tenuta e resistenza a pressione;
- Perdita di carico

(con esecutive ritenute dal Lab. M.R.T.)
trova tracciabilità nei Documenti di Prova sotto elementi.

For the Type in object, the verification of conformity regarding:

- Dimensions;
- Thermal Power;
- Pressure test;
- Pressure drop

(Additional data covered by Lab. M.R.T.)
is find traceability in the following Documents.

La data

del no

Gamma

compre

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Type, is

following

Fig.

MAIOR S/90 350

MAIOR S/90 500

MAIOR S/90 600

MAIOR S/90 700

MAIOR S/90 800

MAIOR S/90 900

MAIOR S/90 1000

MAIOR S/90 1200

MAIOR S/90 1400

MAIOR S/90 1600

Lab. CERTIAT: 2000-549

Lab. CERTIAT: 2000-552

ATTI

ATTI

ATTI

ATTI

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ATTI

ATTI



POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

Laboratorio Misura Rischio Termotecnico M.R.T.

Laboratory dedicated to tests of Directive 89/106/CEE del Ministero delle Attività Produttive, Prot. N. 19379/84 Aprile 2003.

Laboratory qualified according to 89/106/CEE Directive by Italian Ministry in charge of Prot. N. 19379/84 April 2003

Laboratorio di riferimento conforme a R4449/ Reference Laboratory according to EN 442

Accreditamento n° / Accreditation report No: RP 184

Emesso da / issued by: SRT

Data / date: 11/04/2003

Indirizzo / Address: Piazza Leonardo da Vinci, 32 - 20133 Milano - ITALY

Phone: +39 02 2399 2834 or +39 02 2399 2835; Fax: +39 02 2399 2840 or +39 02 2399 2835

e-mail: mrt@polimi.it

Attestato CE di Tipo

CE Type certification

Direttiva Prodotti da Costruzione 89/106/CEE

Construction Product Directive 89/106/CEE

Documento n°: ENE/MRT.EBC.05016

Risultati dell'esame dei rapporti e della documentazione:
Results arising from reports and supplied documentation:

DOCUMENTI PRESENTATI DAL COSTRUTTORE <i>Documentation supplied by the manufacturer</i>	ANNOTAZIONI LABORATORIO <i>Notes written by</i>
• Richiesta di verifica della documentazione per l'apposizione della marcatura CE <i>Request of examination of documentation for CE mark affixing</i>	Data della richiesta presentata <i>Date of request</i>
• Fotografie dei prodotti e/o catalogo commerciale illustrato <i>Pictures of the products and/or illustrated general catalogue</i>	Documenti e presentati <i>Documents checked</i>
• Descrizione dei prodotti <i>Product's description</i>	Documenti verificati e presentati agli atti. <i>Documents checked and recorded</i>
• Marcatura CE <i>CE mark</i>	Documenti verificati e presentati agli atti. <i>Documents checked and recorded</i>
• Disegni Costruttivi del modello <i>Structural design</i>	Documenti verificati e presentati agli atti. <i>Documents checked and recorded</i>
• Dichiarazione del Costruttore: Resistenza al fuoco <i>Manufacturer's declaration: fire resistance</i>	Documenti verificati e presentati agli atti. <i>Documents checked and recorded</i>



POLITECNICO DI MILANO - DIPARTIMENTO DI ENERGETICA

Laboratorio Misure Ricerche Termotecniche M.R.T.

Laboratorio iscritto al ruolo della direzione DDA/DECE del Ministero delle Attività Produttive, Prot. N. 19379, 04 Aprile 2006

Laboratory certified according to DDA/DECE Directive by Italian Ministry in charge, Prot. N. 19379, 04 April 2006

Laboratorio di riferimento conforme a EN 443 Reference Laboratory according to EN 443

Accreditamento n° 1 dell'ente riportante n° 194. Riferimento del luogo di: SRT data / date: 11 / 04 / 2002

Indirizzo / Address: Piazza Leonardo da Vinci, 32 - 20133 Milano - ITALY

Phone: +39 02 2399 3834 or +39 02 2399 3449; fax: +39 02 2399 3440 or +39 02 2399 3443; e-mail: amt@polimi.it

Attestato C.E. di Tipo

CE Type examination

Direttiva Prodotti da Costruzione 89/106/CEE

Construction Product Directive 89/106/CEE

Documento n°: ENB/MRT/BEU.05016

DOCUMENTI PRESENTATI DAL COSTRUTTORE <i>Documentation supplied by the Manufacturer</i>	ANNOTAZIONI REDATTE DAL LABORATORIO M.R.T. <i>Notes written by Lab. M.R.T.</i>
<ul style="list-style-type: none">Dichiarazione del Costruttore: Prove di durabilità sulla verticale <i>Manufacturer's declaration: test of panel resistance</i>	Documento verificato e presente agli atti. <i>Document checked and recorded</i>
<ul style="list-style-type: none">Dichiarazione del Costruttore: Assenza di sostanze pericolose nella verticale <i>Manufacturer's declaration: absence of toxic substances in the panel</i>	Documento ver e presente agli <i>Document checked, pr</i>
<ul style="list-style-type: none">Dichiarazione del Costruttore: Controllo di produzione in fabbrica <i>Manufacturer's declaration of manufacturing inspection on site</i>	Documento ver e presente agli <i>Document checked on</i>

FISA TEHNICA



ANEXA 1 - FISA TEHNICA														
CANTITATE	Lungime		Lățime		Înălțime		Volum		Greutate		Valoare		Unitate	
	mm	cm	mm	cm	mm	cm	m ³	cm ³	kg	g	kg	g	kg	g
1	100	10	10	1	10	1	0.001	1	1	1	1	1	1	1
2	200	20	20	2	20	2	0.008	8	8	8	8	8	8	8
3	300	30	30	3	30	3	0.027	27	27	27	27	27	27	27
4	400	40	40	4	40	4	0.064	64	64	64	64	64	64	64
5	500	50	50	5	50	5	0.125	125	125	125	125	125	125	125
6	600	60	60	6	60	6	0.216	216	216	216	216	216	216	216
7	700	70	70	7	70	7	0.343	343	343	343	343	343	343	343
8	800	80	80	8	80	8	0.512	512	512	512	512	512	512	512
9	900	90	90	9	90	9	0.729	729	729	729	729	729	729	729
10	1000	100	100	10	100	10	1.000	1000	1000	1000	1000	1000	1000	1000

Se poate folosi și pentru alte scopuri decât cele prevăzute în tabel.

Se poate folosi și pentru alte scopuri decât cele prevăzute în tabel.

Ръчник

Параметри от графиките от техническите спецификации
за радиатори FONDITAL, NOVA FLORIDA - модел MAIOR и SAMOA

Elemente de radiator din ALUMINIU - Алюминиеви глинтери
NOVA FLORIDA - ITALIA - NOVA FLORIDA - ИТАЛИЯ
Parametri de lucru pentru agent termic: apa caldă - Работни параметри за термичен агент:
топла вода
MODEL - МОДЕЛ
Înălțime totală - Обща височина
Distanțe între axe - Разстояния между осите
Lățime - Ширини
Adâncime - Дълбочина
Temp. Max. de lucru - Максимална работна температура
Pres. de probe - Тестово налягане
Putere termică nominală la $\Delta t = 60^\circ \text{C}$ - Номинална термична мощност на $\Delta t = 60^\circ \text{C}$
Suprafața exterioară - Външна площ
Suprafața echivalentă - Еквивалентна площ
Volum interior - Вътрешен обем
Racord - Съединение
Masa - Тегло

ЗАБЕЛЕЖКА:

- Придаващият се в радиатора термичен агент може да бъде и пара под ниско налягане ($0,7 \text{ бара}$; 115°C);
- Боядисването на радиаторите се състои във физико-химично третиране, което предпоставя двоен защитен процес (обезкисляване и пряко полиестерно електростатично боядисване);
- Площта на глинтера представлява общадушична
- Номиналната термична мощност е изчислена при

Ръчно
проверка



DNV BUSINESS ASSURANCE MANAGEMENT SYSTEM CERTIFICATE

Certificato No. / Certificate No. CERT-01421-97-AQ-MIL-SINCERT

Si attesta che / This is to certify that

FONDITAL S.p.A.

Via Cerreto, 40 - 25079 Carpeneda di Vobarno (BS) - Italy
Via Provinciale, 49 - 25079 Carpeneda di Vobarno (BS) - Italy
Via Mocenigo, 123 - 25078 Vestone (BS) - Italy

è conforme ai requisiti della norma per i sistemi di gestione:
has been found to conform to the management system standard:

UNI EN ISO 9001:2008 (ISO 9001:2008)

Questa Certificazione è valida per il seguente campo applicativo
This Certificate is valid for the following product or service range:

Progettazione, fabbricazione e assistenza di: radiatori in alluminio fuso, radiatori in alluminio estruso, radiatori a gas e radiatori elettrici, caldaie murali e a basamento;
commercializzazione dei relativi accessori (Settore EA : 17 - 18)

Design, manufacture and servicing of: die-cast aluminium radiators, extruded aluminium radiators,
gas-fired convection heaters and electric radiators, wall-mounted and floor-standing boilers
made of related accessories (Sector EA : 17 - 18)

Data Prima Documentazione Certificazione Data:

1997-01-14

Il Certificato è valido fino al:
This Certificate is valid until:

ACCREDIA

ACCREDITED
BY THE
EUROPEAN
COMMISSION
FOR THE
PURPOSES OF
THE ISO 9001
CERTIFICATION
SCHEME

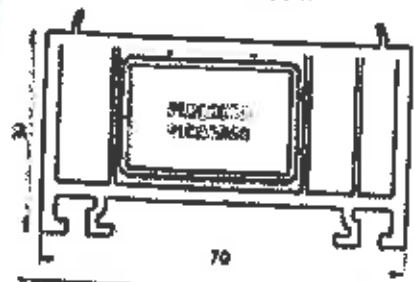
La validità del presente Certificato è subordinata al

Link al Regolamento di certificazione in vigore in Italia (Certification Agreement in force in Italy)
www.dnv.com/accr/accr.htm - Via Bocca di Leone, 14 - 00187 Roma - Tel. 06/498111 - Fax 06/49811211 - E-mail: dnv@dnv.com

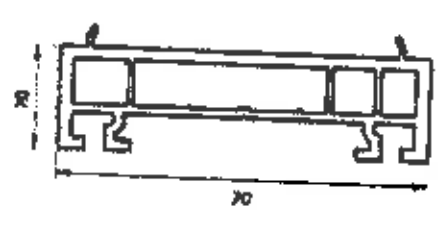


PROFUNK PENNUNG

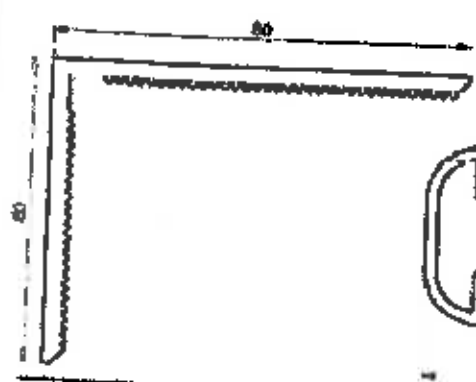
FI401309F
Frame joint profile - extension P



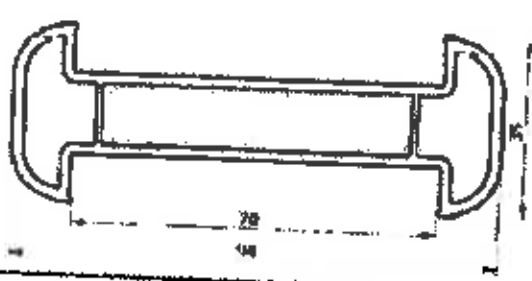
FI402000F
Frame joint profile - extension P 20 mm



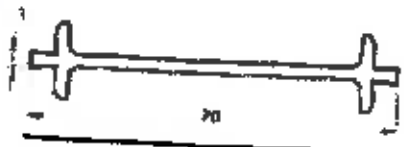
FI00132
L Profile for Frame Profile R, Z



FI301707
Coupling profile - 70 mm



FI001343
Coupling profile 70



FI0011000
Coupling profile



FI401118
Coupling profile



FI1404
Aluminium Threshold

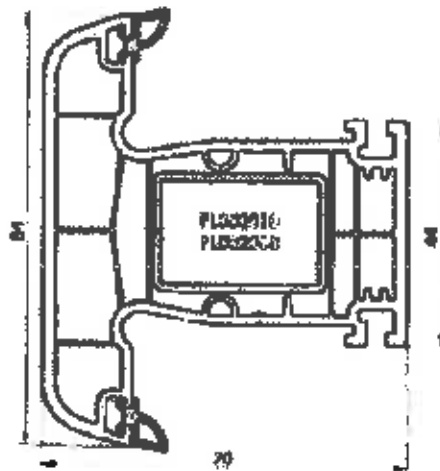


FI0011850
Case for aluminium water-protecting profile

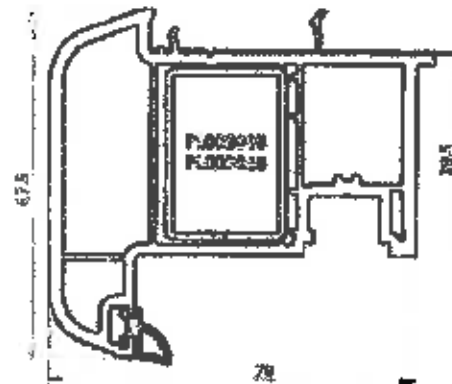
FI19017
Brush holder



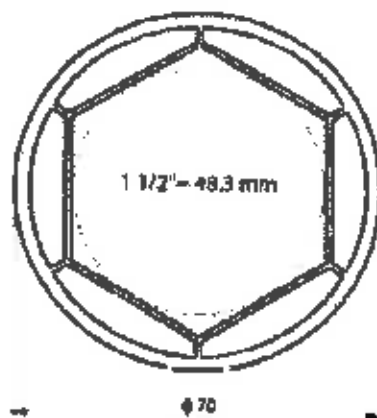
PI001367P
Muffon profile P



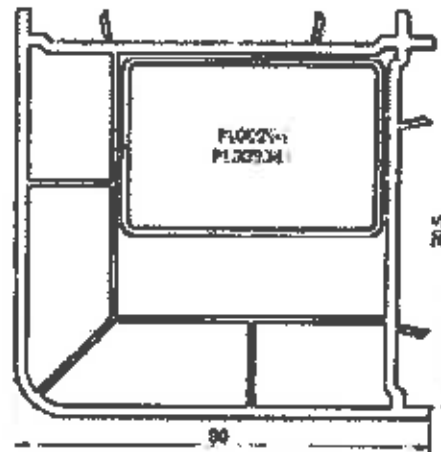
PI001368P
Overlappung P



PI001310P
Pipe P



PI001757P
Corner box profile 90 · 70 mm



PI001311P
Corner adaptor for pipe P



PI001670P
wall connector CP



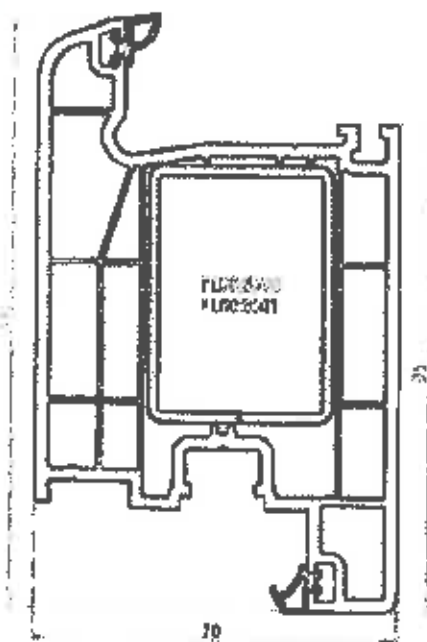
M 1:1

e 2016 7

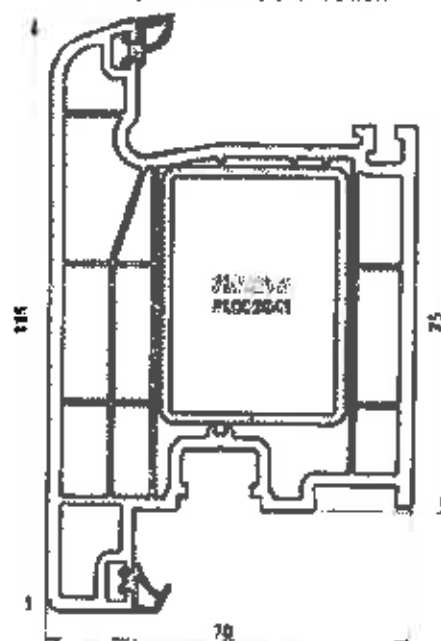


PROFILINK Premium

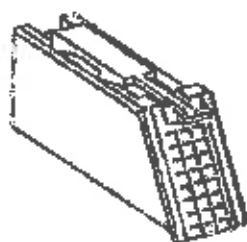
PL94013677
Door Sash profile 70 mm



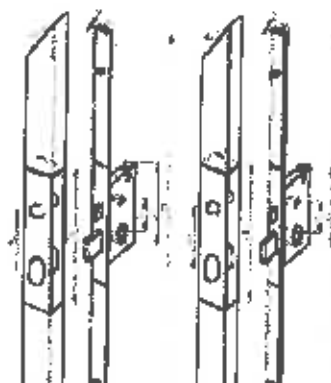
PL94013987
Door sash profile - turned over 70 mm



PL001141
Cut-off profile for
Door Sash P



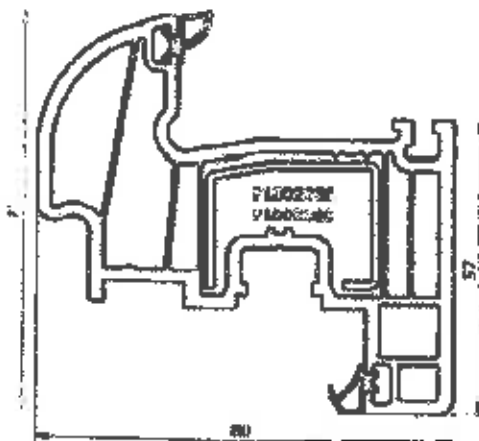
Scheme for hardware installation - 92 mm
Scheme for hardware installation - 60 mm



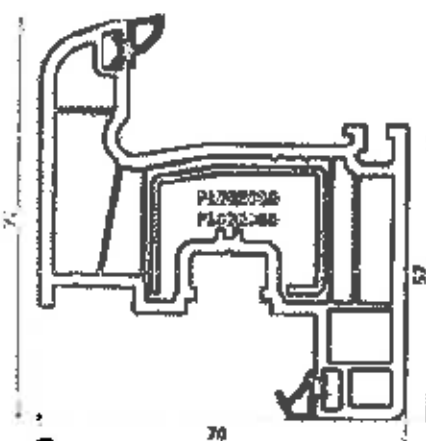
PL002303
Self-draining profile



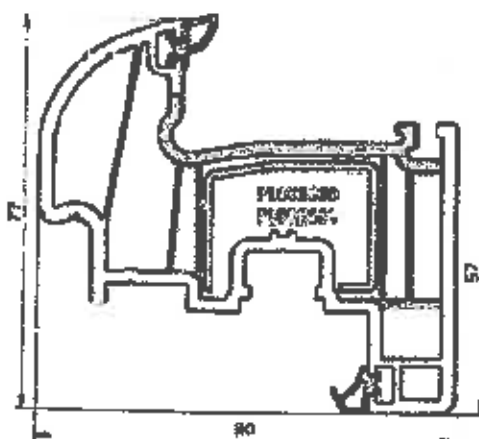
P19401342P
Sash profile 6



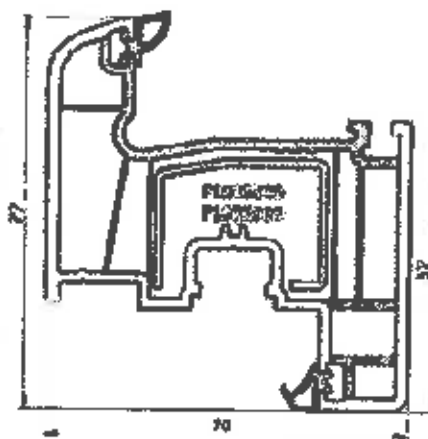
P19401443P
Sash profile 5P



P19401527P
Sash profile 6 4000



P19401528P
Sash profile 5P 4000



P1001214C
Glasbead P



P1001214C1
Glasbead 1S



P1001215I
Glasbead 2I

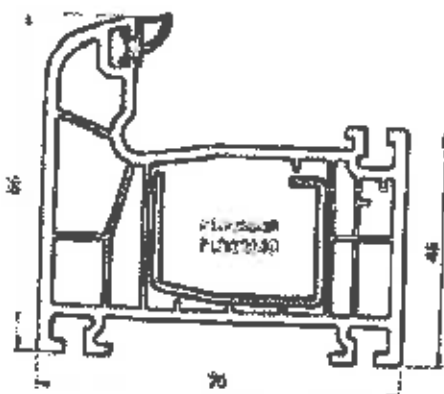


M 1:1

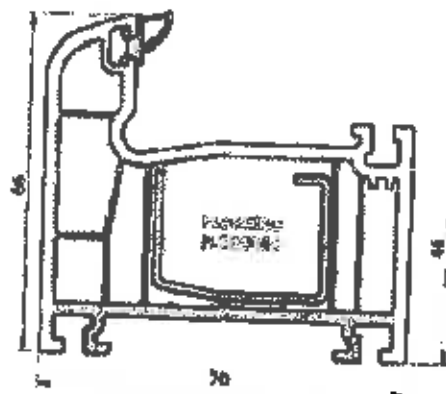


PROFILINK FENESTRA

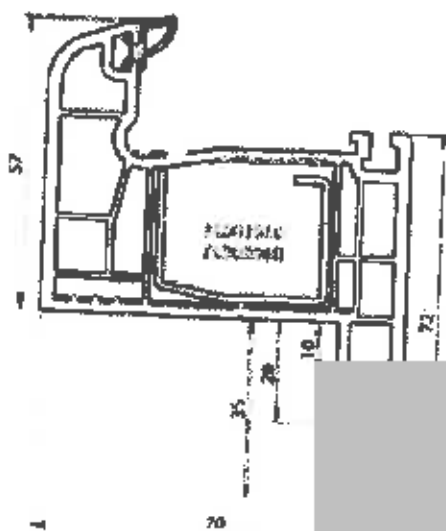
P19501341P
Frame profile 1



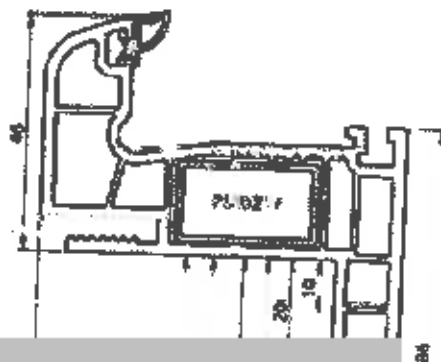
P195011870P
Frame profile 2 - cover



P19501006P
Frame profile 3



P19501820P
Frame profile 4



CODE	Description	Profile	CODE	Description	Profile
13	PL001214C PL001214C1 PL0012151 glassbeak		19	PL001707 coupling profile 75mm	
24	PL003099 frame joint profile - extension P 20 mm		20	PL001209 frame joint profile - extension P	
14	PL001670 wall connector P2		27	PL001340 coupling profile 70	
10	PL001041 bridge C41		26	PL000737 mullion connector P2	
12	PL004447 mullion connector P		15	PL00604 cap for aluminium threshold 30mm	
16	PL001790 cap for aluminium threshold and frame 8 70 mm				



CODE

Description

Profile

1

PL901341P

frame profile P



2

PL901342P

frame profile U



3

PL901343P

10th profile 6



4

PL901347P

mullion profile P



5

PL901347P

door 10th profile 70 mm



6

PL901347P

PL901347P

door 10th profile 70 mm



CODE

Description

Profile

7

PL901345P

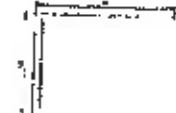
frame profile 7



8

PL901347

L profile for frame profile U



9

PL901343P

10th profile 6p



10

PL901348P

overhang P



11

PL901347P

door 10th profile - hinged over 20 mm





PROFILINK
quality pvc profiles

Technical Catalogue

