



TECHNICAL INFORMATION

AkyVer[®] Sun Type

Polycarbonate Multiwall sheets

AkyVer® SUN TYPE POLYCARBONATE MULTIWALL SHEETS



- The Akyver® Sun Type sheets, made from multiwall polycarbonate, offer undeniable advantages compared to conventional glazing: efficient thermal insulation, lightweight, possibility of cold bending, and shock resistance
- By benefiting from an anti-UV treatment carried out by means of coextrusion, all Akyver® Sun Type products provide over the long term excellent resistance to foul weather and UV radiation, while offering highly stable mechanical properties..
- The Akyver® Sun Type sheets carry a 10-year warranty, the terms and conditions of which are available on our website www.exolongroup.com

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APPLICATIONS

USAGE GUIDELINES

The **Akyver® Sun Type** sheets with anti-UV treatment are intended for exterior applications:

- Glazing on industrial structures, sports facilities or farm buildings
- Roofing
- Veranda roofs, skylights
- Arches, cladding, atria
- Sheds, greenhouses, pyramids

The **Akyver® Sun Type** sheets are also intended for interior applications: suspended ceilings, partition walls, lining.

In addition to anti-UV protection, **Akyver® IR Control** sheets include an anti-heat treatment integrated into the coextrusion, which reduces the greenhouse effect by limiting the amount of infra-red rays passing through them.

The **Akyver® Sign** is used for billboards or signals.

The **Akyver®** with anti-glare treatment serves to improve visual comfort, especially in sporting facilities.

Akyver® HR offers increased resistance to hail and has reinforced anti-UV protection to guarantee the best level of performance on the long term.

THICKNESS DETERMINED BASED ON THE APPLICATIONS

Depending on the applications, we recommend the following thicknesses:

- 4 mm : suspended ceilings, interior applications, small greenhouses
- 4 and 6 mm **AkyVer® Sign** : billboards and signs
- 6 mm : greenhouses, awnings, partitions, sheds
- 8 and 10 mm : sheds, skylights, partitions, pool sheds, arches, greenhouses, carports, awnings
- 16 to 25 mm : roofing, cladding, veranda roofs, arches, skylights, sheds, carports
- 32 and 50 mm : verandas

WARRANTY

Akyver® Sun Type sheets, with a minimum thickness of 6 mm, carry a warranty:

- **Garantie 10 year warranty on the technical characteristics (valid throughout the European Union):**
 - Loss of light transmission limited to 4%
 - Stable mechanical characteristics

The warranty applies exclusively to sheets that have not been exposed to the harmful effects of an external chemical agent.

A non-exhaustive list of chemical agents indicating their compatibility or non-compatibility with polycarbonate is available upon request. This list is subject to change without prior notice as the state of our knowledge evolves.

Akyver® HR sheets benefit from a full 10-year warranty against hail damage.



These warranty terms and conditions are available on our website: www.exolongroup.com

For any information you may require, please contact us.

Technical Application Document (TAD) CCFAT GS 6 (other countries upon consultation).
Standard EN 16153, EC marking.

PRODUCT RANGE

STANDARD FORMATS

Structure	Structural ref.	Thickness (mm)	Weight (g/m ²)	Rib distance	Standard width, in mm				
					980	1050	1200	1220	2100
	2W	4	800	6,5					X
	2W	6	1300	6,5					X
	2W	8	1500	10,5					X
	2W	10	1700	10,5					X
	ECO	16	2400	11					X
	4W-7	10	1750	7		X			X
	7W-12	10	1900	12					X
	7W-12	16	2600	12	X	X	X		X
	7W-12	20	2800	12					X
	7W-12	25	3400	12					X
	10W-16	20	2900	16				X	
	10W-16	25	3400	16				X	
	10W-16	32	3500	16				X	
	10W-16	40	4000	16				X	
	10W-16	50	4400	16				X	

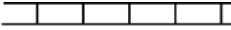



Standard lengths: 6000-7000 mm. Other dimensions upon request.

Thickness tolerance: ± 0.4 mm / Width tolerance: $-2/+6$ mm

TECHNICAL CHARACTERISTICS

THERMAL

Coefficient of thermal transmission U

Structure	Structural ref.	Thickness (mm)	Thermal insulation (W/m ² .°C)
		4	3,9
	2W	6	3,6
	2W	8	3,4
	2W	10	3,1
	ECO	16	2,4
	4W-7	10	2,5
	7W-12	10	2,27
	7W-12	16	<1,8
	7W-12	20	1,5
	7W-12	25	<1,4
	10W-16	20	<1,5
	10W-16	25	<1,4
	10W-16	32	<1,1
	10W-16	40	<1,0
	10W-16	50	0,8

THERMAL DILATATION: 0.065 MM/M°C

During the assembly stage, introduce a 4 mm/lm dilatation allowance in both directions.

Dilatation of the sheets may generate audible cracking.

TECHNICAL CHARACTERISTICS

MECHANICAL

The Akyver® Sun Type sheets bend in the cold subject to a minimum bending radius.

Thickness (mm)	4-2W	6-2W	8-2W	10-2W	16-2W	10-4W	10-7W	16-7W	20-7W	25-7W	20-7W	25-10W	32-10W	40-10W	50-10W
Radius (mm)	600	900	1200	1500	2400	1500	1750	2400	3000	/	3500	/	/	/	/

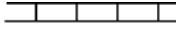
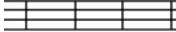


Maximum use temperature without stress: 115°C. Minimum: - 40°C.

Characteristics	Standard	Unit Value
Density	ISO 1 183, ASTM D 792, DIN 53 479	1.2 g/cm ³
Tensile strength	ISO 527, ASTM D 638, DIN 53 455	60 Mpa
Elongation at the breaking point	ISO 527, ASTM D 638, DIN 53 455	> 50 %
Modulus of elasticity	ISO 527, ASTM D 638, DIN 53 457	2 300 Mpa
H 30 Ball penetration hardness	ISO 2 039, DIN 53 456	95 Mpa
Thermal conductivity λ	ISO 8302	0.20W/m.K
Linear coefficient of dilatation (23 to 80 °C)	DIN 53 752	6.5E-5°C-1
Softening temperature Vicat VST/B50	ISO 306, DIN 53 460	145°C
Shock resistance with IZOD notch at 23°	ISO 180-4A, ASTM D 256A	> 50 KJ/m ²
Shock resistance with CHARPY notch at 23°	ISO 179-1eU, ASTM D 256B, DIN 53 453	pas de casse
Recovery of humidity in the water	ISO 62, ASTM D 570, DIN 53 495-1L	0.35 %
Permeability to water vapour	DIN 53 122-1 perméabilité (g/m ² .24h.bar)	approx. 15

All Akyver® Sun Type sheets with a thickness of greater than or equal to 8 mm (between 8 mm and 50 mm) will satisfy the ball impact resistance test ("Ballwurfsicherheitstest" according to the Standard DIN 18 032, Part 3, hockey puck and handball ball).



TECHNICAL CHARACTERISTICS

OPTICAL - Coefficient of light transmission (%). Standard colours

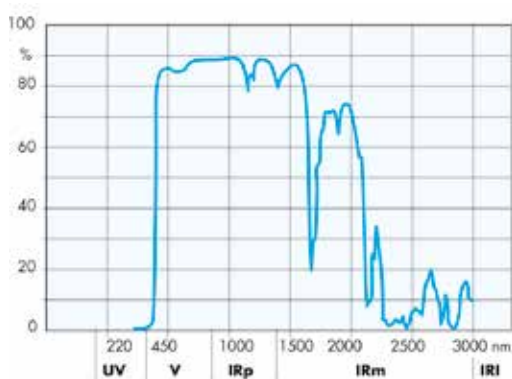
Structure	Structural Ref.	THICKNESS (mm)	CLEAR	OPAL	SMOKED	SIGN	OPAL INFRARED	GREEN INFRARED	GREY INFRARED	WHITE INFRARED
	2W	4	84	64	50	27				
	2W	6	82	63	44	19				
	2W	8	82	61	44	17				
	2W	10	81	60	42	11				
	ECO	16	78	58	47	24				
	4W-7	10	62	56	42		53	53		15
	7W-12	10	60	56						
	7W-12	16	58	54	29	11	42	42	38	12
	7W-12	20	58	54			42	42	38	12
	7W-12	25	56	52	22		40	40	36	12
	10W-16	20	52	48						
	10W-16	25	52	46						
	10W-16	32	52	44			27	27	24	8
	10W-16	40	50	41						
	10W-16	50	48	35						

LT (light transmission) +/-3 measured with the light meter according to Standard NF P38-511

SOLAR FACTOR

Structure	Structural Ref.	Thickness (mm)	Solar Factor G					
			CLEAR	OPAL	IR OPAL	IR GREEN	IR GREY	IR WHITE
	2W	4	0.80	0.63				
	2W	6	0.78	0.62				
	2W	8	0.78	0.60				
	2W	10	0.78	0.59				
	ECO	16	0.75	0.59				
	4W-7	10	0.60	0.59	0.62	0.62		0.38
	7W-12	10	0.59	0.57				
	7W-12	16	0.59	0.55	0.49	0.49	0.44	0.30
	7W-12	20	0.59	0.55	0.49	0.49	0.44	0.30
	7W-12	25	0.57	0.53	0.47	0.47	0.42	0.29
	10W-16	20	0.51	0.50				
	10W-16	25	0.51	0.48				
	10W-16	32	0.51	0.46	0.32	0.32	0.28	0.19
	10W-16	40	0.49	0.43				
	10W-16	50	0.47	0.41				

LIGHT TRANSMISSION



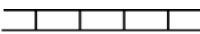



UV : Ultraviolet 136 to 400 nanometres
V. : Visible 400 to 780 nanometres
I.R.p. : Near infrared 780 to 1,400 nanometres
I.R.m. : Medium infrared > 1,400 to 3,000 nanometres
I.R.I. : Far infrared: 3,000 to 1,000,000 nanometres..
This curve corresponds to the total transmission of a 6-mm thick Akyver® Sun Type sheet.

TECHNICAL CHARACTERISTICS

ACOUSTIC

STANDARD RANGE AKYVER® SUN TYPE

Index of acoustic attenuation NFS 31051, in dB(A).

Structure	Structural ref	Thickness (mm)	Acoustic attenuation dB(A)
	2W	4	
	2W	6	16
	2W	8	16
	2W	10	17
	ECO	16	19
	4W-7	10	17
	7W-12	10	17
	7W-12	16	20
	7W-12	20	21
	7W-12	25	22
	10W-16	20	21
	10W-16	25	21
	10W-16	32	21
	10W-16	40	22
	10W-16	50	22

FIRE RESISTANCE

EUROPEAN RANKING SBI EN 13501

Thickness (mm)	Fire resistance rating TRANSLUCENT - OPAL - COLOURS
4-2W	B s1 d0
6-2W	B s1 d0
8-2W	B s1 d0
10-2W	B s1 d0
16-2W	B s1 d0
10-4W	B s1 d0
10-7W	B s1 d0
16-7W	B s1 d0
20-7W	B s1 d0
25-7W	B s1 d0
20-10W	B s1 d0
25-10W	B s1 d0
32-10W	B s1 d0
40-10W	B s1 d0
50-10W	B s2 d0

The Akyver® Sun Type sheets are relatively non-flammable products due to their composition. For the other countries,

TRANSFORMATION STORAGE

Cutting - machining

The Akyver® and Akyver® Sun Type sheets are cut for smaller thicknesses, up to 6 mm, with a cutting blade or a trimmer. For the other thicknesses, it is necessary to use a circular saw, either portable or a panel saw. The saw blades will be made of a highspeed steel or preferably with carbide teeth (80 teeth). For information, for a panel saw, we recommend a rotational speed of 3,200 rev/min, equivalent to a linear speed of 48 m/s minimum. The sheet must be fastened to the workbench or braced onto the housing, in order to avoid unwanted vibrations.

Blowing

We recommend using a VENTURI® type nozzle with a minimum pressure of 6 bar (dry air).

Drilling

The Akyver® and Akyver® Sun Type sheets are perforated using a well sharpened drill bit operated at medium speed (drilling at least 10 mm from the edge). Take the dilatation tolerance into account for the drilling diameter: $D = \text{screw diameter} + 4 \text{ mm}$.

Waterproofing

The waterproofing of sheets is guaranteed by use of aluminium extruded sections with Neoprene® type sealants. Waterproofing may also be carried out using a neutral putty (list furnished upon request). Prior to any use of silicon, be sure that the product is compatible with polycarbonate. The closure of cells must be conducted exclusively in accordance with the preparation and plugging specifications. The aluminium extruded section must also provide for good ventilation inside the cells as well as sufficient drainage. Seal compatibility with the sheets must be ensured inasmuch as the risks of microcracks by means of chemical attack around the sheets are severe. For these reasons, we recommend using the Santoprene® sealant.

The Akyver® Sun Type sheets are delivered on a pallet and protected against dust and humidity by means of a polyethylene cover. Sheets and packages containing extruded sections must be stored in the shade, protected from foul weather and in a well ventilated place. Packages of extruded sections must be opened in order to avoid any condensation inside. The pallets must be placed on a flat and dry floor. Take all necessary precautions during handling to ensure:

- Refraining from excessive use of straps;
- The pallets must be handled using an appropriate forklift or else with a spreader bar, in order to avoid any bending that could pop out pallet nails and damage the sheets; maximum stacking: one pallet on top of another;
- Not producing scratches, indentations or dents on the surface or edge of the sheet.

The sheets are delivered wrapped in a protective polyethylene film on both surfaces. For the Akyver® Sun Type sheets, the UV-treated surface, which will be exposed to solar radiation, is identified by a film printed in blue colour as well as by an inkjet marking on the edge of the sheet. These films are to be removed immediately after application of the sheets.

CLEANING

- Prohibit all abrasive pastes that would scratch the Akyver® sheet
- Use only soapy water or water mixed with a neutral detergent.
- Do not use solvents or alkaline detergents.
- Avoid cleaning during hot weather or when the sheets are hot.

We can provide you with a list of products incompatible with polycarbonate.

For any other cleaning product, please feel free to call us.



PREPARATION AND PLUGGING

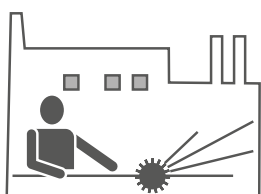
The plugs installed in the factory at the sheet ends are temporary (protection during transport, storage free from dust): they must be removed and replaced by a permanent plug prior to installing the sheets, in order to avoid potential dust deposits inside the cells.

It is essential to be informed ahead of time of the venue and assembly conditions: category, type of activity, and building exposure.

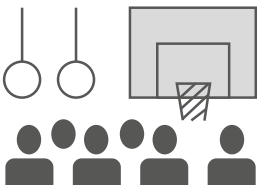
Polycarbonate is a material permeable to water vapour: approximately 15 g/m².24h.bar. It is important to take this into account when specifying a cladding using multiwall polycarbonate.

OUR RECOMMENDATIONS - SPECIAL ENVIRONMENTS

PLUGGING GUIDELINES



Industrial buildings in a very dusty environment or mechanical workshops releasing smoke or fine particles (e.g. by welding, diesel motor, others): plugging of upper and lower parts of the sheets with a solid adhesive aluminium foil and, for extreme cases, a butyl compound type containing a silicon layer compatible with polycarbonate, which serves to prevent any penetration of particles by a draft inside the sheets. This is especially recommended for all products within the Akyver line.



Sports facilities or public buildings: plugging with a micro-perforated foil on both the upper and lower parts of the sheets.

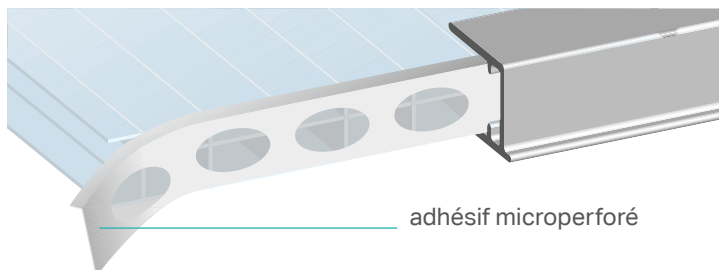


Swimming pools or damp atmosphere: avoid obstructing the cells which helps condensation water evacuate and ventilate the cells.

Note: Since polycarbonate is permeable to water vapour, the appearance of condensation is indeed possible despite all the precautions taken; this condition however does not constitute a grounds for complaint.

FINISHING EXTRUDED SECTION

Over the lower part, the cells are covered by an aluminium "U"-shaped extruded section in order to finish and protect the adhesive.






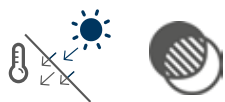
RANGE OF FINISHES

AKYVER® SUN TYPE

Finishes	Sheets
Colours	M
Litestop	M + C
Anti-glare	C
HR High resistance to hail	M
IR Control	C
2 faces UV	C on request
Comfort T	M + C
Sérigraphie	S
Anti-graffiti	S

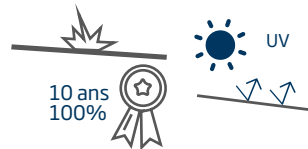


 Masse
 Coextrusion
 Surface Treatment



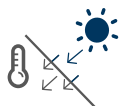
LiteStop

- Full opacity
- Reduced greenhouse effect
- Reduced heat expansion



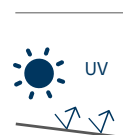
HR

- High resistance to hail
- Reinforced UV
- Full 10-year warranty



IR Control

- Reduced greenhouse effect



2 faces UV

- UV protection on both faces



Comfort T

- Reduced greenhouse effect
- Reduced glare



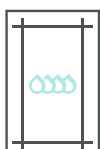
Colours

- Creative colour effect



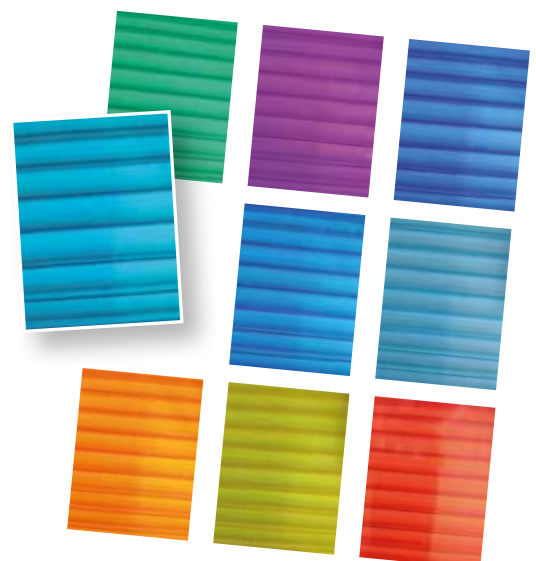
Anti-graffiti

- Facilitates the removal of graffiti from your buildings and protects against abrasion



Screen printing

- Creative effect for unique buildings



Non-exhaustive list, other colours possibles..

SHEET SET-UP

Regulations

Data stemming from “NV 65 rules, modified in 2009”

At elevations above 1,000 m, the set of specifications is required to indicate the basic dynamic pressures to include in the computations.

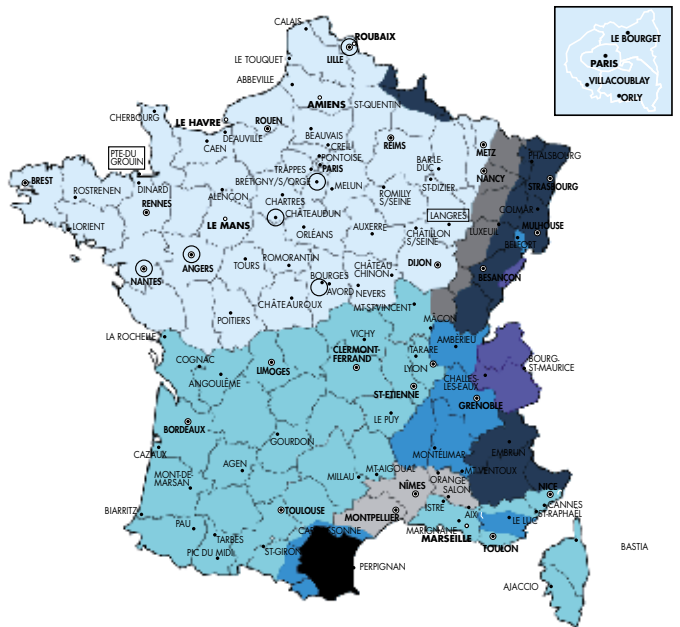
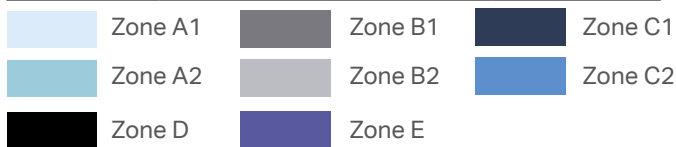
EXCESS LOAD DUE TO WIND

Applications	Normal base dynamic pressure N/m ²	External base dynamic pressure N/m ²
Région I	500	875
Région II	600	1 050
Région III	750	1 310
Région IV	900	1 575
Région V	1 200	2 100



EXCESS LOAD DUE TO SNOW

Applications	Normal excess load P _{no} N/m ²	Extreme loades P'no N/m ²	Accidental loads N/m ²
Zone A1	350	600	/
Zone A2	350	600	800
Zone B1	450	750	800
Zone B2	450	750	1080
Zone C1	550	900	/
Zone C2	550	900	1080
Zone D	800	1300	1440
Zone E	1150	1900	/



GENERAL REMARKS

During installation of the multiwall Akyver® and Akyver® Sun Type sheets for constructing industrial and sporting buildings, cladding, roofs and sheds, national regulations must be fully respected. Our recommendations are based on the set of specifications issued by our raw material suppliers, as well as on our experience implementing this product through the wide array of projects we've completed.

We would like to draw your attention to the fact that different application specifications, which may introduce more constraints, have been issued by official bodies like the CCFAT (commission in charge of issuing technical opinions) in France.

Under the scenario where your building needs to be executed in accordance with the specifications issued by such bodies, we advise you to rely on their guidelines as of the project design stage.

FLAT SHEET INSTALLATION

RECOMMENDATION EXCLUSIVE OF TECHNICAL ADVICE

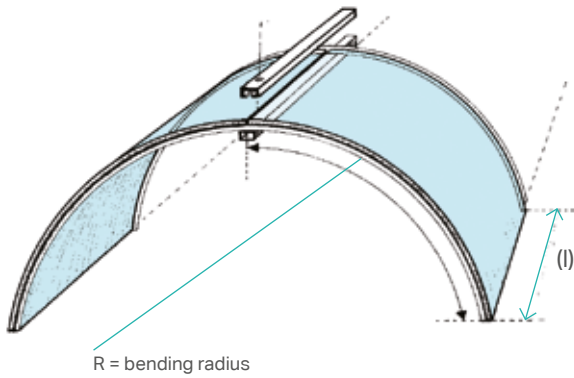
During installation of the Akyver® Sun Type sheets, national regulations must be fully respected. The following tables may provide you with a guide for determining either the sheet format or the installation of an intermediate support, depending on the various excess loads. Maximum sheet length or dimension between 2 sheet supports, in mm, for various widths and excess loads (with a maximum deflection of 50 mm).

TABLE OF FLAT SHEET SPANS. SHEET LENGTH, IN MM

Excess load, N/m ²		500	750	900	1250	1500	1750	2000
Thickness (mm)	Width (mm)							
6 - 2 walls	700	2500	1800	1500	1500	1500	1000	
	980	1500	1500	1000	1000	1000		
	1050	1500	1500	1000	1000	1000		
	1200							
8 - 2 walls	700	3000	2500	3000	2000	1800	1500	
	980	2000	1700	1200	1200	1100	1100	
	1050	2000	1700	1200	1200	1100	1100	
	1200							
10 - 2 walls	700	4500	4000	4000	2500	2000	1800	1500
	980	2500	2000	1500	1500	1400	1300	1200
	1050	2500	2000	1500	1500	1400	1300	1000
	1200					1000		
16 - 2 walls ECO	700	5500	5000	4500	2300			
	980	4000	3500	3000	2000	1500		
	1050	4000	3500	3000	2000	1500		
	1200	2500	2000	1800	1250	1000		
10 - 4 walls	700	> 4500	> 4000	> 4000	2200			
	980	2200	1800	1600	1400			
	1050	2100	1800	1400	1400			
	1200	1800	1500	1300	1100			
16 - 7 walls	700	> 6000	> 6000	> 6000	6000	6000	6000	6000
	980	> 6000	4200	3100	2100	2000	1800	1500
	1050	6000	3500	2500	2000	2000	1700	1500
	1200	5000	2500	2000	1700	1500	1100	1000
20 - 7 walls	700	> 6000	> 6000	> 6000	> 6000	> 6000	> 6000	6000
	980	> 6000	6000	5100	4500	3500	3000	2000
	1050	> 6000	5300	4700	4500	3500	3000	2000
	1200	> 6000	4400	3800	3000	2000	2000	1000
25 - 7 walls 3 000 g/m ²	700	> 6000	> 6000	> 6000	> 6000	> 6000	> 6000	6000
	980	> 6000	5500	5000	4900	3600	3150	2250
	1050	> 6000	5000	4500	4600	3600	3150	2250
	1200	> 6000	4200	3500	3600	2700	2200	1300
25 - 7 walls 3 400 g/m ²	700	> 6000	> 6000	> 6000	> 6000	> 6000	> 6000	6000
	980	> 6000	> 6000	5500	5500	4000	3500	2500
	1050	> 6000	5600	5000	5000	4000	3500	2500
	1200	> 6000	4700	4100	4000	3000	2500	1500
25 - 10 walls	700	>6000	>6000	>6000	>6000	>6000	>6000	>6000
	980	>6000	5500	5000	4900	3600	3150	2250
	1050	>6000	5000	4500	4500	3600	3150	2250
	1200	>6000	4200	3500	3500	2700	2200	1300
32 - 10 walls	700	> 6000	> 6000	> 6000	> 6000	> 6000	> 6000	> 6000
	980	> 6000	> 6000	> 6000	> 6000	5600	5500	5000
	1050	> 6000	> 6000	> 6000	> 6000	5600	5000	5000
	1200	> 6000	> 6000	> 6000	5600	4700	4100	4000
40-10 walls	700	>6000	>6000	>6000	>6000	>6000		
	980	>6000	>6000	>6000	>6000	5600		5000
	1050	>6000	>6000	>6000	>6000	5600		5000
	1200	>6000	>6000	>6000	5600	4700		4000
50 - 10 walls	700	> 6000	> 6000	> 6000	> 6000	> 6000		
	980	> 6000	> 6000	> 6000	> 6000	5600		5000
	1050	> 6000	> 6000	> 6000	> 6000	5600		5000
	1200	> 6000	> 6000	> 6000	5600	4700		4000

BENT SHEET INSTALLATION

SKYLIGHTS (BENT SHEETS)



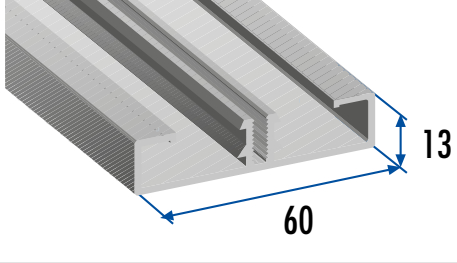
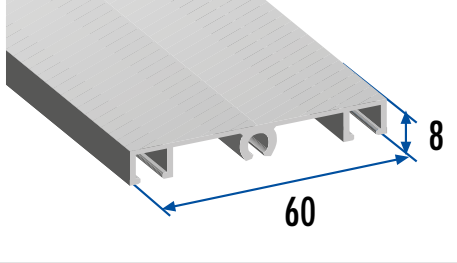
The following tables serve to determine the installation width (l), in mm, depending on the various radii of curvature, regardless of the sheet length. To produce the skylights, it is necessary to pre-bend the aluminium extruded sections in the workshop. The Akyver® Sun Type sheets will thereby follow the curvature of these extruded sections.

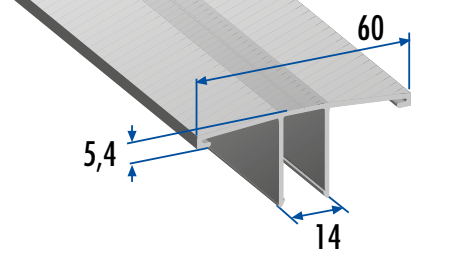
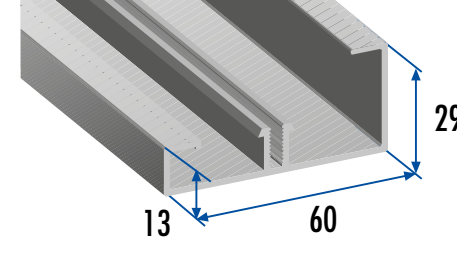
TABLE OF BENT SHEET SPANS. SHEET LENGTH, IN MM. SHEET LENGTH, IN MM

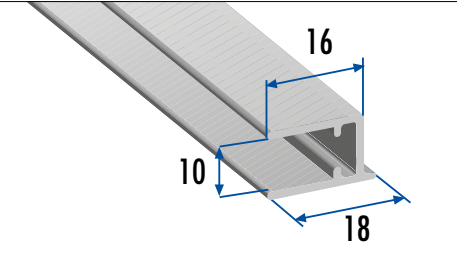
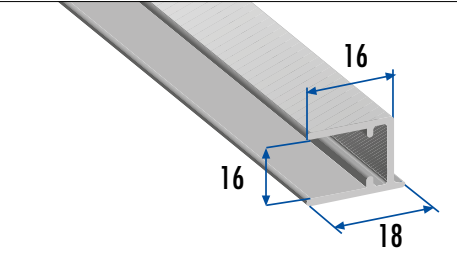
Thickness (mm)	Excess load N/m ²	Bending radius R (mm)							
		900 mini	1000	1100	1200	1300	1500	1700	1800
6 - 2 walls	R (mm)	900 mini	1000	1100	1200	1300	1500	1700	1800
	600	1500	1400	1400	1300	1200	1200	800	600
	750	1300	1200	1100	1100	1050	900	500	500
	900	1200	1100	1050	1050	900	700		
8 - 2 walls	R (mm)	1200 mini	1400	1500	1700	2000	2300	2500	2700
	600	2000	2000	1800	1700	1400	1100	800	600
	750	1800	1500	1400	1200	1200	1050	600	500
	900	1700	1500	1200	1100	1050	800		
10 - 2 walls	R (mm)	1500 mini	1700	1800	2000	2100	2500	2700	3000
	600	2000	2000	1800	1500	1400	1300	1050	800
	750	2000	1800	1600	1400	1300	1050	900	700
	900	2000	1700	1500	1400	1200	900	700	500
16- 2 walls ECO	R (mm)	2600 mini	2900	3000	3300	3600	3900	4200	4500
	600	2000	2000	1800	1500	1400	1300	1050	800
	750	2000	1800	1600	1400	1300	1050	900	700
	900	2000	1700	1500	1400	1200	900	700	500
10 - 4 walls	R (mm)	1500 mini	1700	1800	2000	2100	2500	2700	3000
	600	1800	1800	1600	1300	1300	1200	900	700
	750	1400	1400	1200	1200	1000	900	800	600
	900	1200	1200	1200	1100	1000	800	600	400
16 - 7 walls	R (mm)	2600 mini	2900	3000	3300	3600	3900	4200	4500
	600	2000	2000	1800	1600	1400	1300	1200	1050
	750	1600	1500	1400	1200	1100	1050	900	800
	900	1400	1200	1200	1050	900	800	700	700
20 - 7 walls	R (mm)	2600 mini	2900	3000	3300	3600	3900	4200	4500
	600	2200	2100	1900	1800	1600	1500	1500	1400
	750	1700	1600	1600	1500	1500	1450	1350	1250
	900	1600	1500	1500	1400	1400	1350	1300	1200
	1200	1400	1300	1250	1200	1200	1150	1100	1000

EXTRUDED SECTIONS AND ACCESSORIES

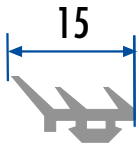
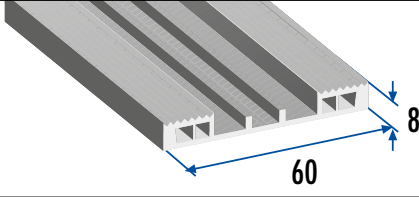
ALUMINIUM EXTRUDED SECTIONS

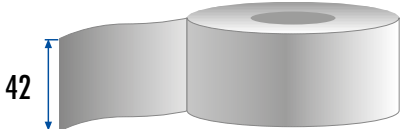

	
<p>Lower aluminium profile section Ref. : ZEA 587 (39101329) : 7 ml and ZEA (39101089) 591 (: 6 ml</p>	<p>Upper aluminium profile section Ref. : ZEA 585 (39101337) : 7 ml and ZEA 592 (39100937) : 6 ml</p>

	
<p>Upper aluminium clippable profile section Ref. : ZEA 594 (39101097) : 7 ml</p>	<p>Aluminium edge profile section (just for the 16-mm sheets) Ref. : ZEA 586 (39101305) : 7 ml</p>

	
<p>10-mm aluminium end profile section Ref. : ZEA 588 (39100953): 6,3 ml</p>	<p>16-mm aluminium end profile section Ref. : ZEA 589 (39100945) : 6,3 ml</p>

ACCESSOIRES

	
<p>SANTOPRENE® sealant joint 100 ml roll 100 ml roll Ref. : ZEA 2000 (39101201)</p>	<p>SANTOPRENE® sealant joint 50 ml roll Ref. : ZEA 2001(39101209)</p>

	
<p>Aluminium tape 50 ml roll Ref. : ZCF 258 (42100825)</p>	<p>PE micro-perforated tape 33 ml roll Ref. : ZCF 095 (42100889)</p>

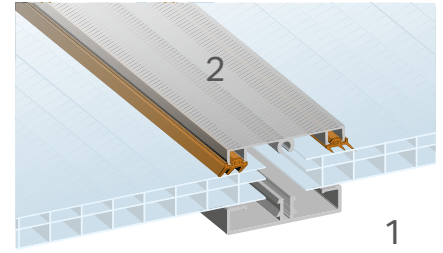
BONDING EXTRUDED SECTIONS

CLAMPING PROFILES SECTIONS 1 AND 2

Consisting of two aluminium profiles, they can be used for all sheet thicknesses by changing the screw. These profiles are well suited for mounting bent sheets.

LOAD CAPACITY OF PROFILES 1 AND 2

L in mm Excess load	700	980/ 1050	1200
500 N/m ²	1300	1250	1000
750 N/m ²	1250	1000	900
900 N/m ²	1000	900	800

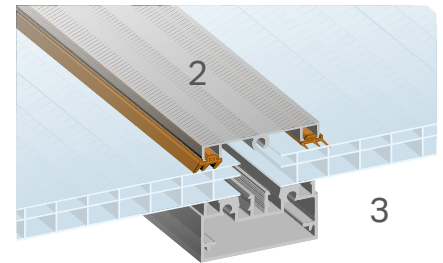


SUPPORTING PROFILES CONNECTIONS 3 AND 2

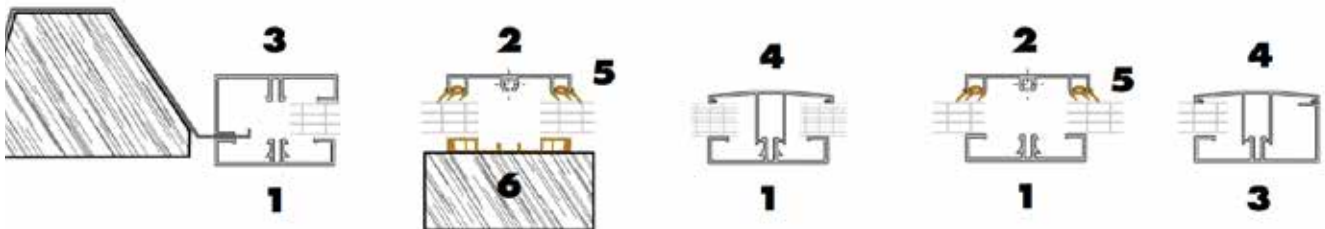
These profiles allow for greater spans and are generally used to install 16 mm sheets.

LOAD CAPACITY OF PROFILES 3 AND 2

L in mm Excess load	700	980/ 1050	1200
500 N/m ²	3300	3000	2100
750 N/m ²	3000	2400	1800
900 N/m ²	2400	1800	1200



INSTALLATION EXAMPLES: ROOFING, CLADDING



- 1: Lower aluminium profile section
- 2: Upper aluminium, bendable profile section
- 3: Aluminium, non-bendable corner profile section
- 4: Upper aluminium, clippable profile section
- 5: Sealant joint
- 6: Drainage joint for assembly on joists

The glazing depth must be at least 20 mm for all Akyver sheets®.

THE SOLUTION FOR EACH APPLICATION

In pursuit of our goal to provide "**une solution pour chaque application**", we are offering our skills through a one-of-a-kind line composed of **AkyVer® Sun Type** polycarbonate sheets, ranging from 2 to 10 walls, and our **AkyVer® PANEL** and **AkyVer® CONNECT** modular systems.

AkyVer® Panel meets your cladding and shed requirements for both new builds and renovations. All products display increasingly efficient technical characteristics.

AkyVer® is the most extensive range of multiwall polycarbonate sheets in Europe. From the outset, **AkyVer®** has shown its ability to associate the quality of its products, with technical performance and aesthetics, to meet the needs of all types of architectural projects.



› **More than 40 years of expertise**

AkyVer® brand expresses durability and quality proven over the years through long term partnerships with our customers.



› **Dedicated sales and technical experts**

Our team of experts accompany you from your project to the realization on site.



› **Local Production International scope**

With production based in Nera Montoro, in Italy, Exolon Group serves the whole of Europe and beyond.

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