



TECHNICAL DOSSIER

POLYCARBONATE SYSTEM

CARBOPIÙ



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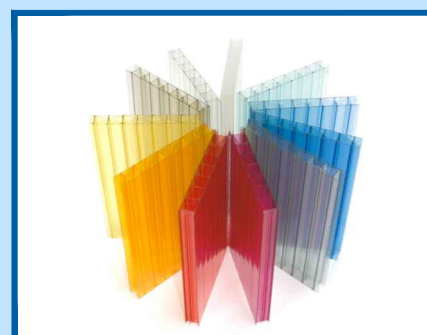
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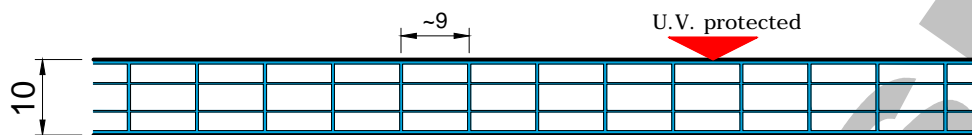
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CARBOPIÙ

MULTIWALL POLYCARBONATE SHEET CROSS SECTION

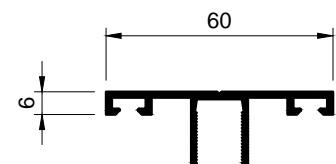
CARBOPIÙ



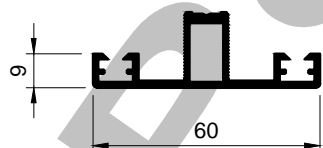
CARBOPIÙ SHEET CROSS SECTION 10 mm – 4 walls

ALUMINIUM PROFILES AND ACCESSORIES CROSS SECTION

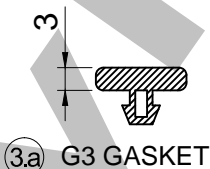
ALUMINIUM JOINT



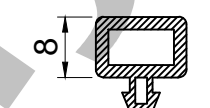
① UPPER BAR F49
in aluminium



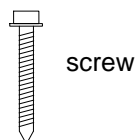
② LOWER BAR F50
in aluminium



③a G3 GASKET



③b G8 GASKET

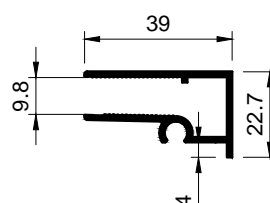


screw

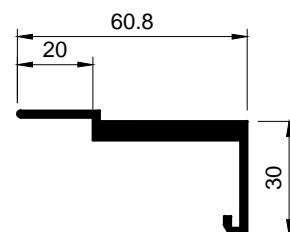


washer

④ FIXING

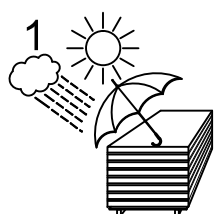


⑤ END PROFILE F56
in aluminium

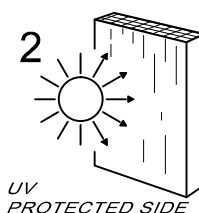


⑥ ALUMINIUM BRACKET

TECHNICAL RECOMMENDATION:



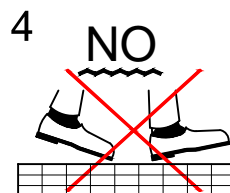
1. PROTECT THE SHEETS BY THE SUN AND RAIN DURING THE STORAGE AND IN GENERAL BEFORE THE FITTING



2. INSTALL THE SHEETS ALWAYS WITH THE UV PROTECTED LAYER FACING OUTWARDS !

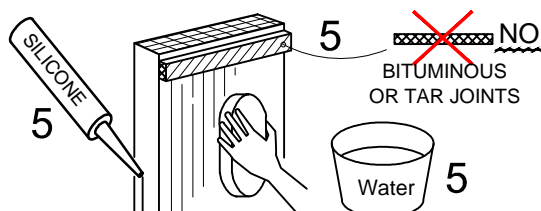


3. MULTIWALL POLYCARBONATE SHEETS CAN NOT BE WALKED UPON



4. DO NOT WALK ONTO THE SHEETS AT ANY TIME. FOLLOW SAFETY REGULATIONS AND SAFE METHODS OF INSTALLATION

POLYCARBONATE SUFFER THE CHEMICAL ATTACK OF SOME PRODUCTS, THEREFORE:



5. USE ONLY COMPATIBLE CLEAR SILICONE FOR THE SEALING

5. USE ONLY WATER AND MILD DETERGENTS FOR THE CLEANING.

RESISTANCE AGAINST CHEMICALS

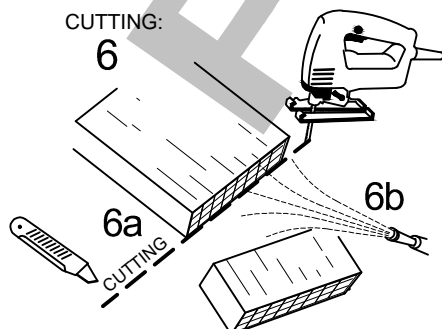
CHEMICALS	CHANGE
INORGANIC SALTS	
Sodium chloride 10%	Unchanged
Potassium nitrate 10%	Unchanged
Potassium bichromate 10%	Yellowing
Sodium sulphate 10%	Unchanged
Ammonium chloride	Unchanged
Sodium bicarbonate 10%	Surface cracking
INORGANIC ACIDS	
Hydrochloric acid 35%	Cracking
Hydrochloric acid 10%	Unchanged
Sulphuric acid 70%	Unchanged
Sulphuric acid 30%	Unchanged
Nitric acid 40%	Yellowing
Nitric acid 10%	Yellowing
Chromic acid 10%	Unchanged
Concentrated hydrofluoric acid	Unchanged
ALKALIS	
Sodium hydrate 1%	Unchanged
Sodium hydrate 10%	Light clouding
Ammonium hydrate 10%	Darkening and disintegration
Calcium hydrate 10%	Unchanged
ORGANIC ACIDS	
Acetic acid 70%	Unchanged
Acetic acid 10%	Unchanged
Formic acid 30%	Unchanged

CHEMICALS	CHANGE
Lactic acid 5%	Unchanged
Oxalic acid 10%	Unchanged
Benzoic acid 10%	Unchanged
Oleic acid 100%	Unchanged
LUBRICATING OILS	
Silicone oil	Unchanged
Paraffin oil	Unchanged
Machine oil	Unchanged
PLASTICIZERS	
Tricresyl phosphate	Light clouding
Diocetyl adipate	Unchanged
Diocetyl phthalate	Unchanged
Butyl stearate	Unchanged
Acid trimethyl esters	Unchanged
ALCOHOLS	
Methyl alcohol	Surface cracking
Ethyl alcohol 50%	Unchanged
n-Butanol	Unchanged
Ethylene glycol	Unchanged
VARIOUS	
Benzole	Rapid decomposition
Toluol	Rapid decomposition
Industrial petrol	Yellowing, opacifying and cracking
Kerosene	Unchanged
Diesel oil	Unchanged
n-Heptane	Unchanged
Cyclohexane	Unchanged

CHEMICALS	CHANGE
Methyl isobutyl ketone	Clouding and softening
Butyl acetate	Clouding and softening
Methyl methacrylate	Clouding and softening
Acrylonitrile decomposition	Rapid
Vinyl acetate	Clouding and softening
Styrole	Clouding and softening
Ethyl ether (5 °C)	Swelling
Diethylenetriamine	Slow decomposition
Ethylenediamine	Slow decomposition
Triethanolamine	Surface cracking
Phenol 5%	Yellowing and opacifying
Cresol	Unchanged
Formalin	Unchanged
Hydrogen dioxide 10%	Light yellowing
Triammoniumcitrate (pH = 9)	Unchanged
Triammoniumcitrate (pH = 5)	Unchanged

Testing temperature = + 23 °C

CUTTING:

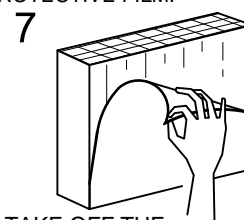


6. THE SHEETS ARE SUPPLIED TO THE EXACT LENGTH REQUIRED EITHER THERMOSEALED OR SEALED WITH AN ALUMINIUM FOIL TAPE AT THE ENDS

6a. CUTTING OF THE SHEETS CAN BE EXECUTED ON SITE BY MEANS OF A HACK SAWING MACHINE (1) OR OF A CUTTER (2). SEAL THE OPEN CELLS AFTER THE CUTTING.

6b. BLOW OR VACUUM DUST IN EXCESS AFTER CUTTING BEFORE SEALING ENDS

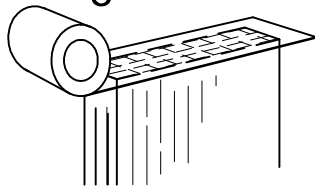
PROTECTIVE FILM:



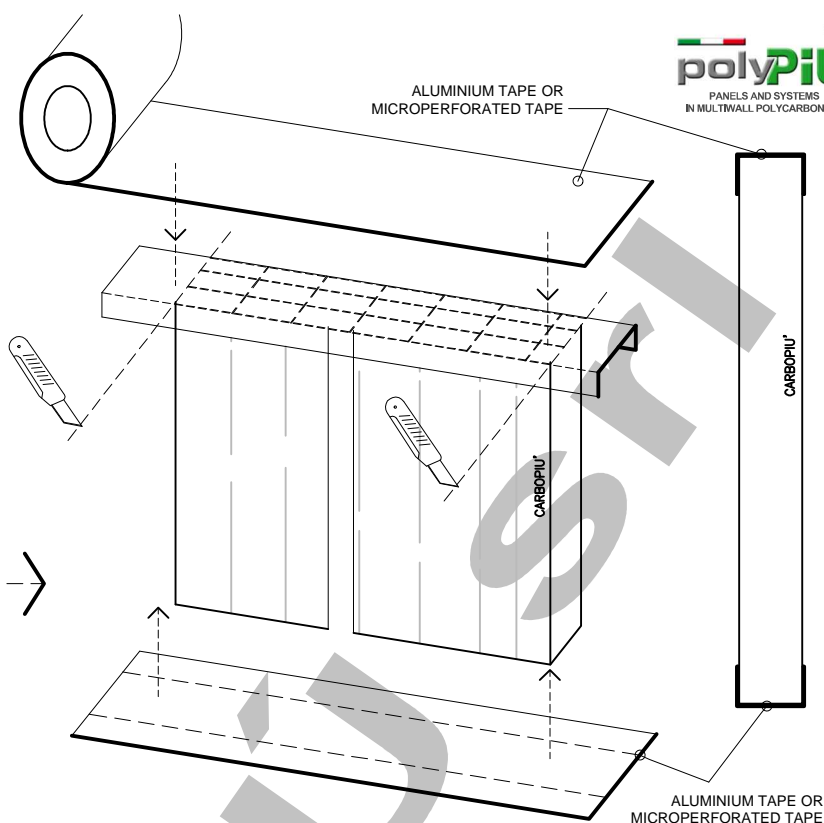
7. TAKE OFF THE PROTECTIVE FILM BEFORE THE INSTALLATION

SEALING:

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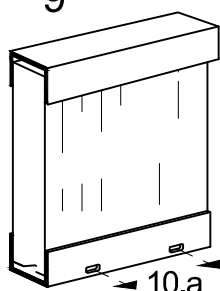


8. SEAL THE OPEN CELLS WITH ALUMINIUM TAPE OR MICROPERFORATED TAPE BEFORE THE FITTING



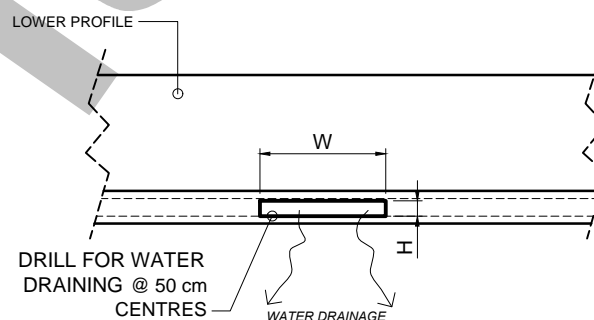
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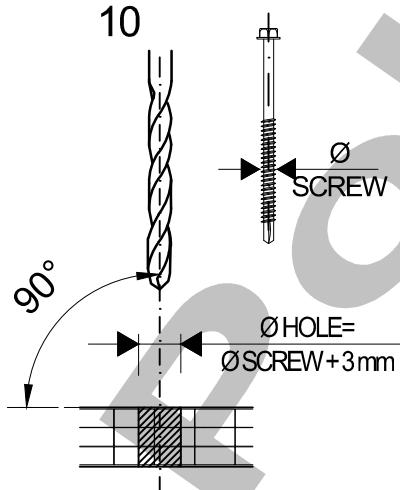
9. PROTECT THE SEALING WITH AN UPPER OR A LOWER PROFILE

9.a LOWER PROFILES MUST BE DRILLED FOR WATER DRAINING

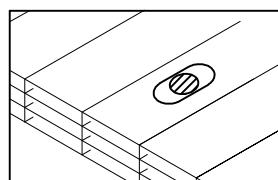


DRILLING:

10

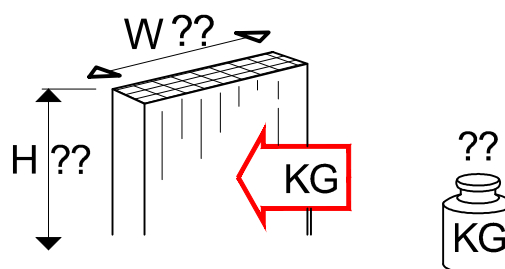


10. DRILLING OF THE SHEETS CAN BE EXECUTED ON SITE BY MEANS OF A DRILL AND SUITABLE HEADS. THE HOLE MUST BE 3mm WIDER THAN SCREW GAUGE OR A SLOT ALONG THE LENGTH



LOADINGS AND SPACINGS:

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12. CHECK OUR TECHNICAL LITERATURE TO DETERMINE LOADING AND SPACING OF THE WHOLE SYSTEM

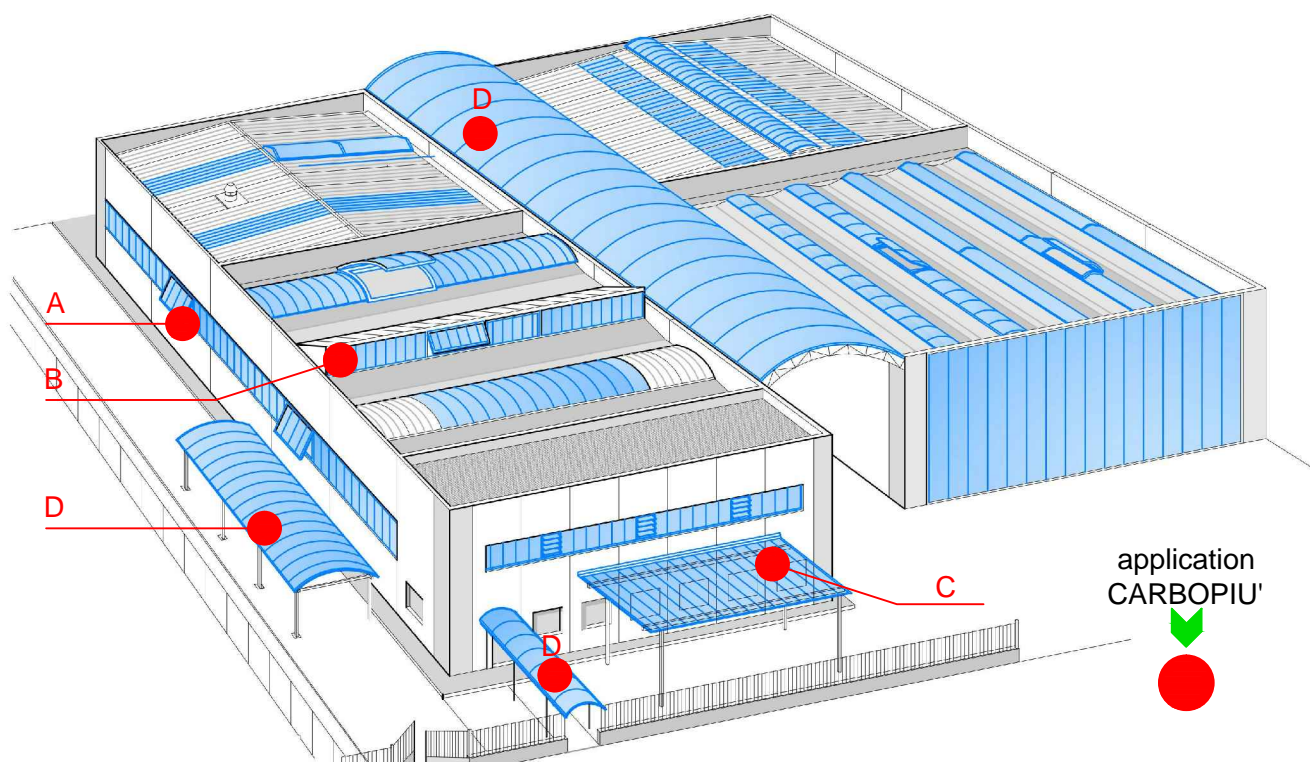
WARRANTY & CERTIFICATIONS:

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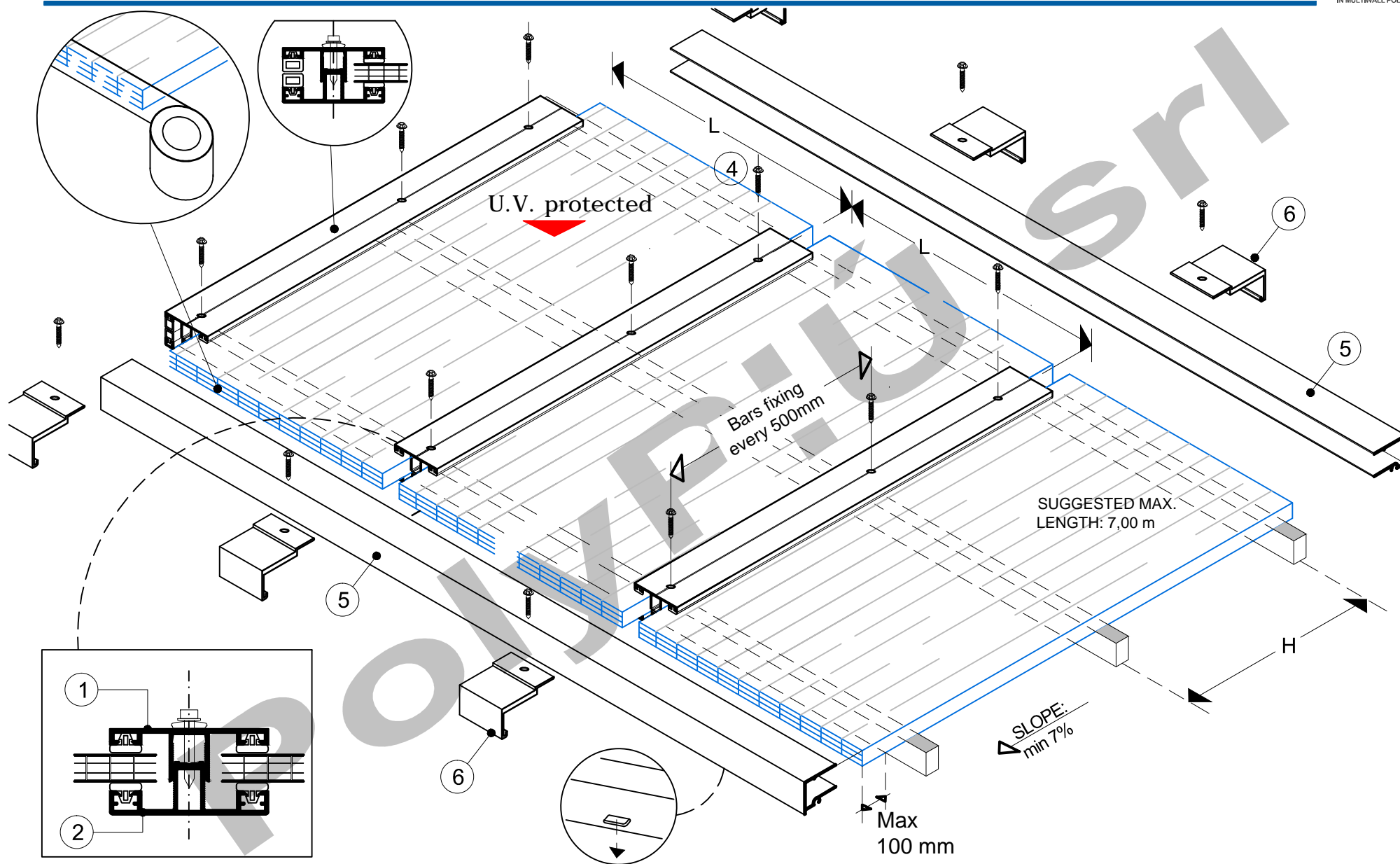
THE POLYPIU' PRODUCTS ARE COVERED BY A 10-YEAR WARRANTY – PLEASE CHECK THE TERMS OF OUR WARRANTY FOR MORE DETAILS.
PLEASE CONTACT OUR TECHNICAL DEPT. FOR MORE DETAILS ON THE CERTIFICATIONS.

APPLICATIONS CARBOPIU':

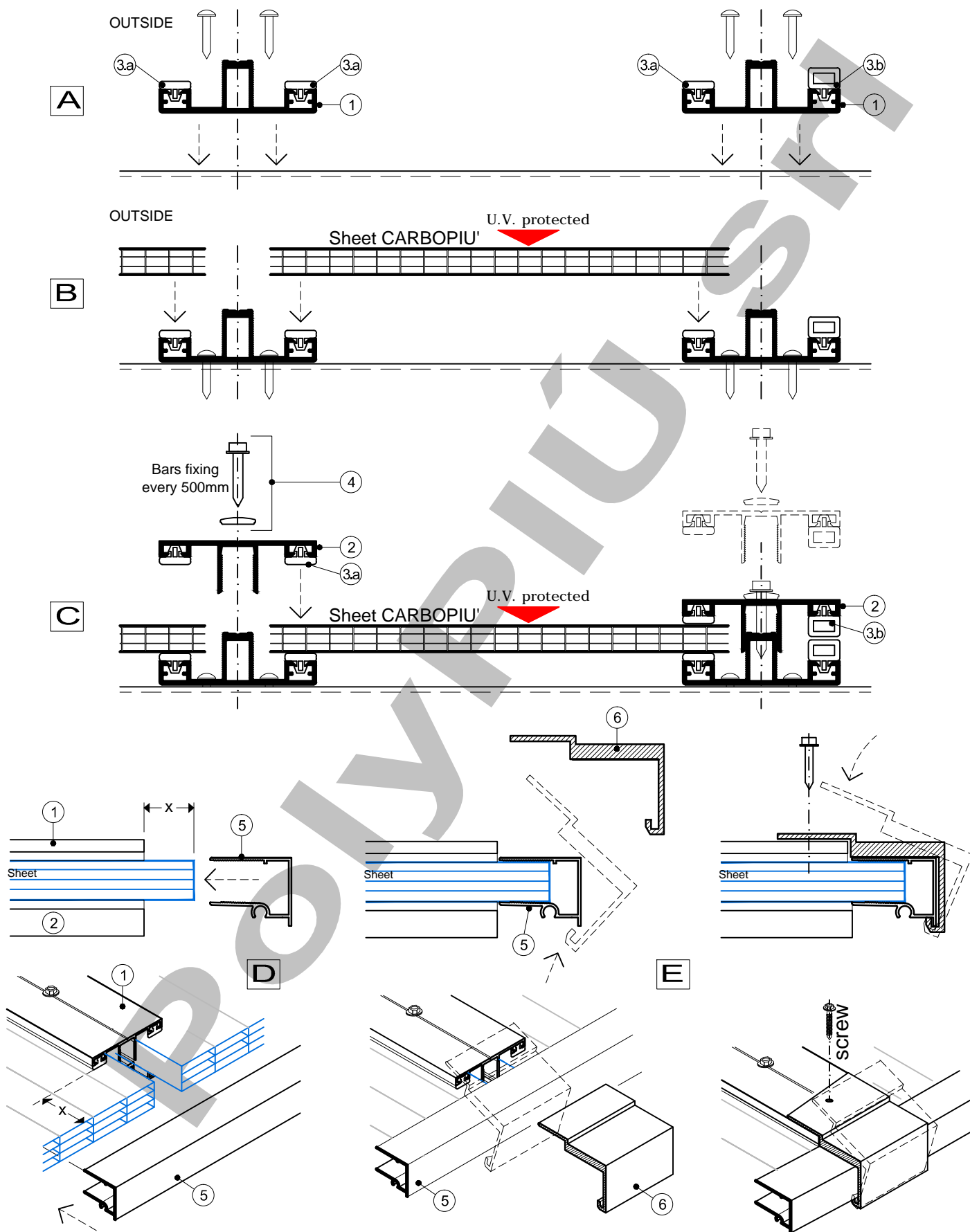


- A** VERTICAL GLAZING
- B** VERTICAL OR SLOPED NORTHLIGHT
- C** FLAT COVERING
- D** CURVED COVERING

FITTING GUIDE CARBOPIU'



FITTING GUIDE



NOTES:

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