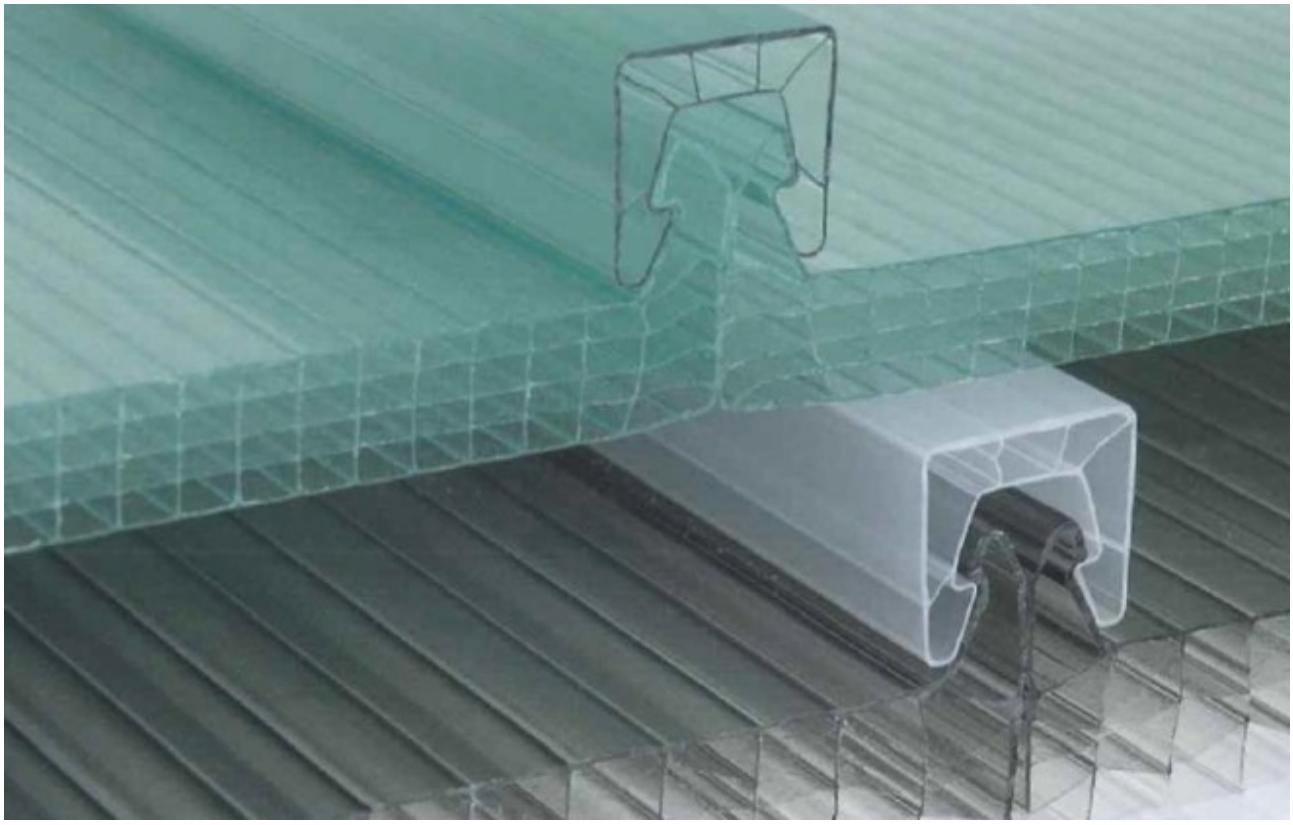
Rockwell
BUILDING PLASTICS

REVERSPIU
SYSTEM R600/R1010

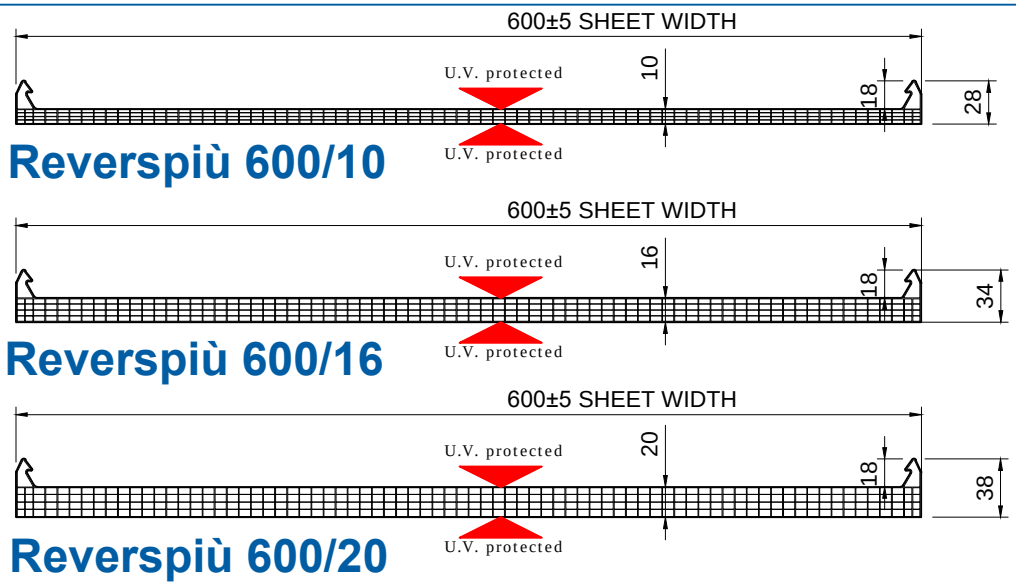


TECHNICAL
HANDBOOK

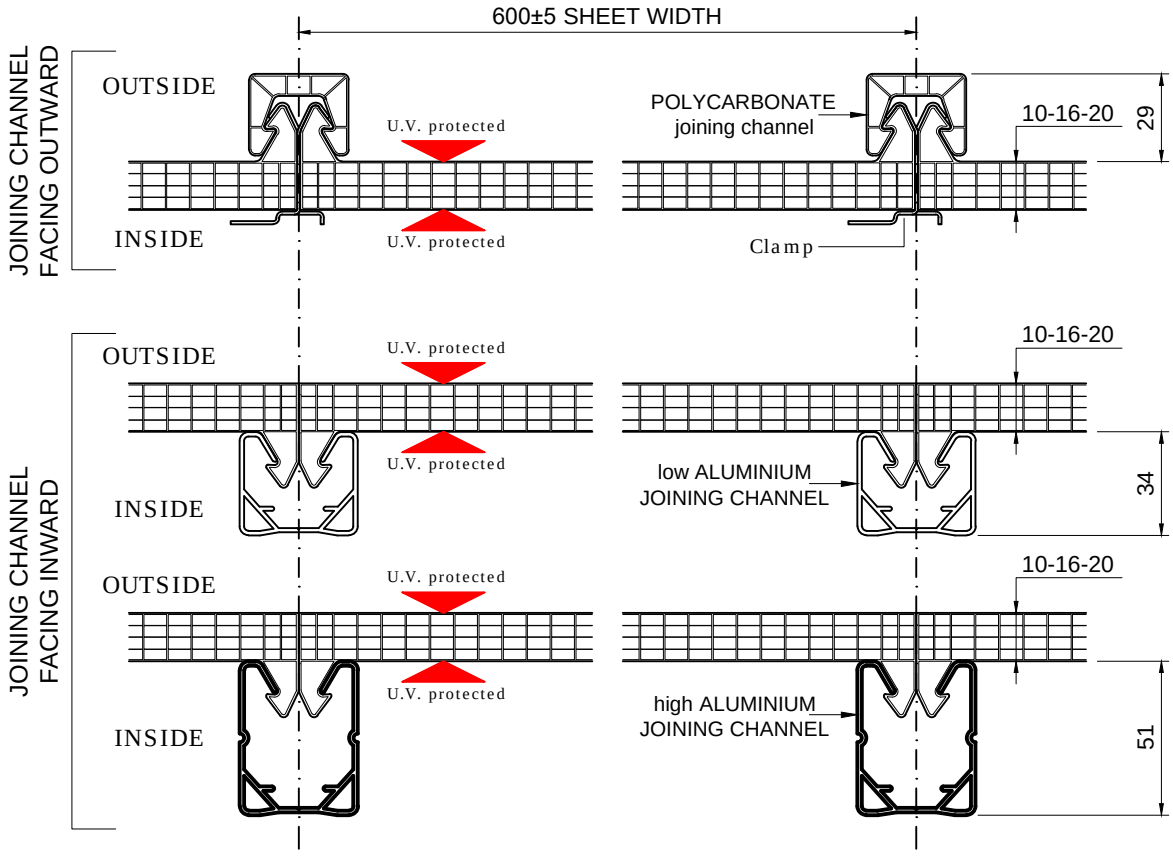
MULTIWALL POLYCARBONATE SHEET CROSS SECTION

REVERSPIÙ 600-10-16-20

SHEET CROSS SECTION



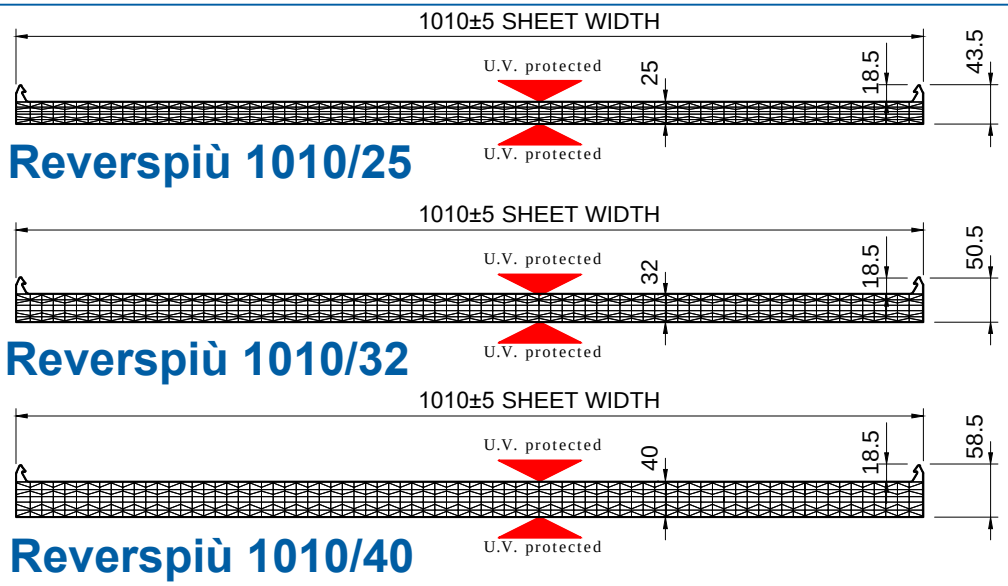
DETAIL OF JOINT SHEET-JOINING CHANNEL



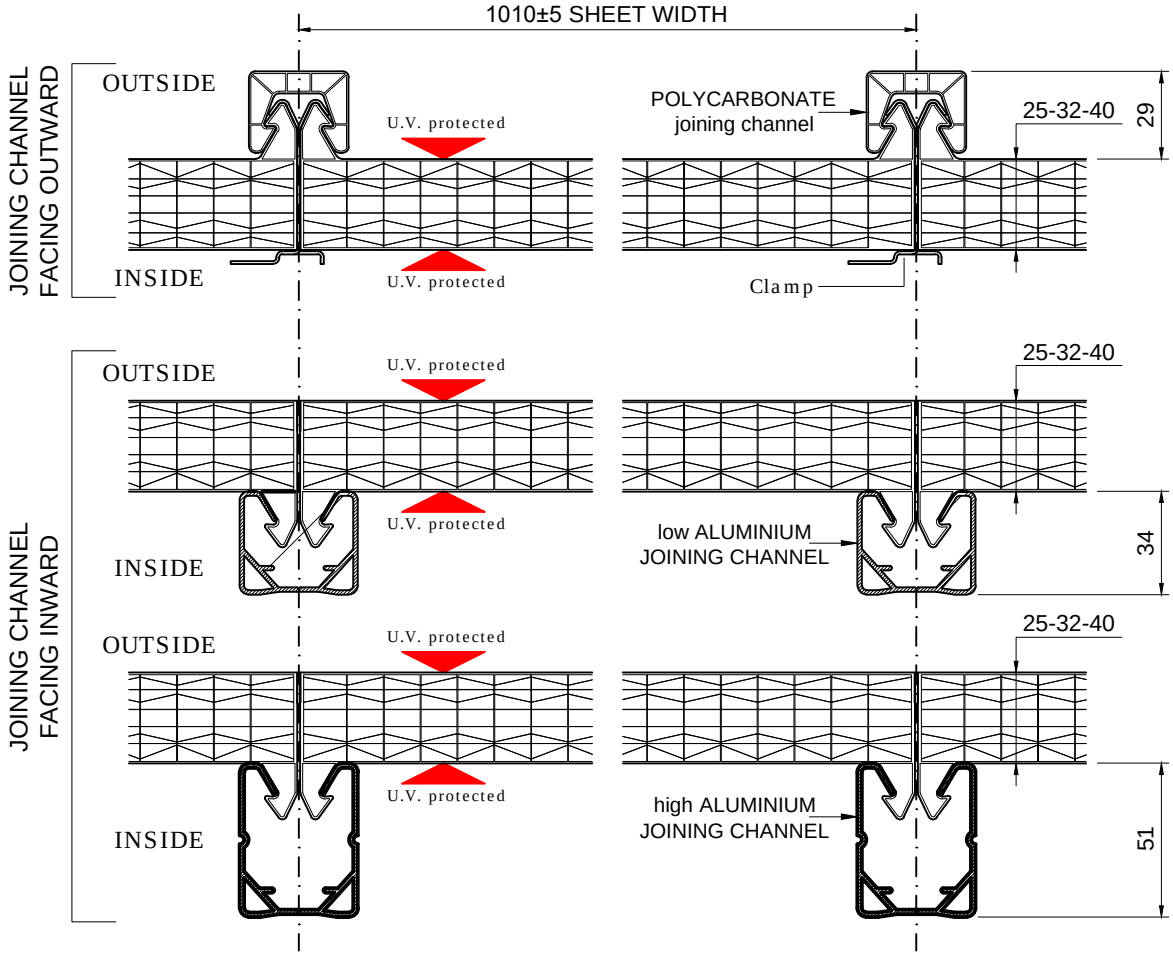
MULTIWALL POLYCARBONATE SHEET CROSS SECTION

REVERSPIU 1010-25-32-40

SHEET CROSS SECTION



DETAIL OF JOINT SHEET-JOINING CHANNEL

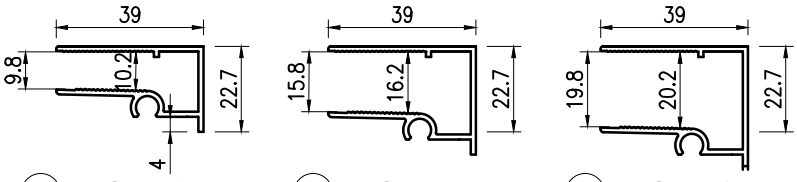


REVERSPIU' FLAT

ALUMINIUM PROFILES, JOINING CHANNELS AND ACCESSORIES CROSS SECTIONS

ALUMINIUM PROFILES

TOP and BOTTOM PROFILES for Reverspiù 600

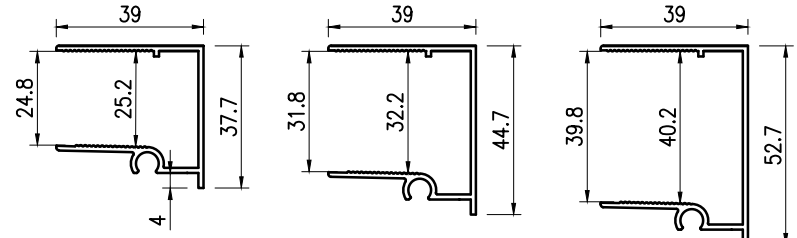


1 Profile F56R for 600/10

2 Profile F57R for 600/16

3 Profile F58R for 600/20

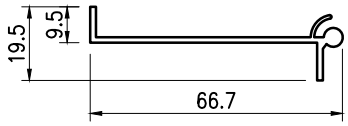
TOP and BOTTOM PROFILES for Reverspiù 1010



4 Profile F59R for 1010/25

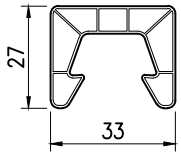
5 Profile F60R for 1010/32

6 Profile F61R for 1010/40

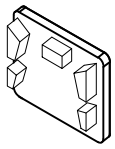


7 Lower profile F35 P40

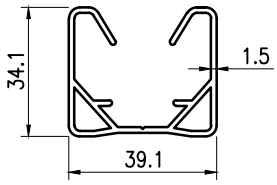
JOINING CHANNELS



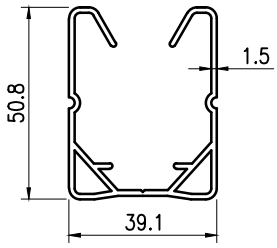
8 SQUARED POLYCARBONATE JOINING CHANNEL



9 POLYCARBONATE CAP



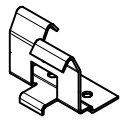
10 LOW ALUMINIUM JOINING CHANNEL

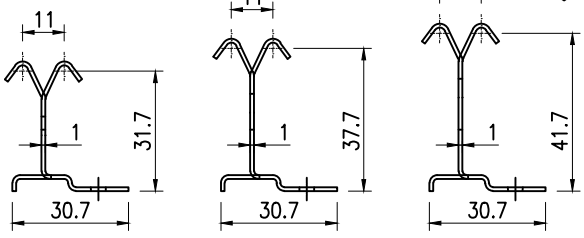


11 HIGH ALUMINIUM JOINING CHANNEL

FIXING STEEL CLAMPS for Reverspiù with polycarbonate joining channel

Reverspiù 600



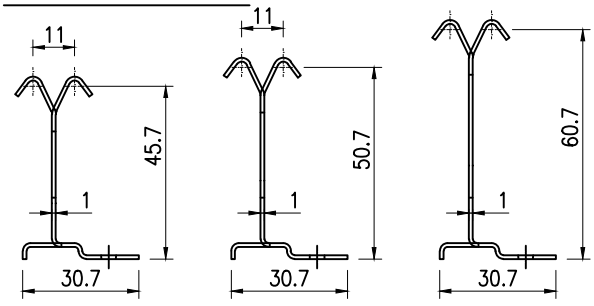


12 Clamp for 600/10

13 Clamp for 600/16

14 Clamp for 600/20

Reverspiù 1010



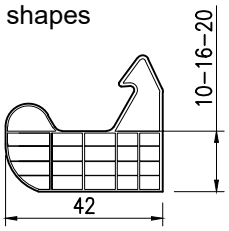
15 Clamp for 1010/25

16 Clamp for 1010/32

17 Clamp for 1010/40

SIDE PROFILE in polycarbonate

n°3 shapes

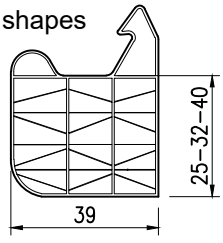


18 PROFILE for 600/10

19 PROFILE for 600/16

20 PROFILE for 600/20

n°3 shapes

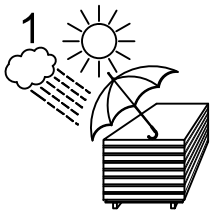


21 PROFILE for 1010/25

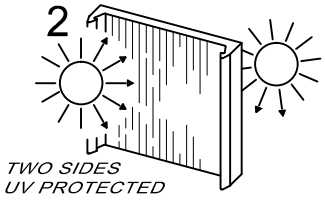
22 PROFILE for 1010/32

23 PROFILE for 1010/40

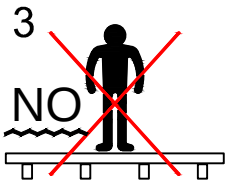
TECHNICAL RECOMMENDATIONS:



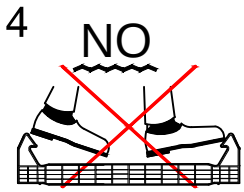
1. PROTECT THE SHEETS BY THE SUN AND RAIN DURING THE STORAGE AND IN GENERAL BEFORE THE FITTING



2. THE REVERSPIU' SHEETS ARE U.V. PROTECTED ON BOTH SIDES

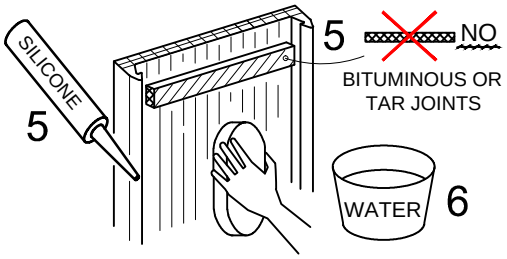


3. MULTIWALL POLYCARBONATE SHEETS CAN NOT BE WALKED UPON



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

6. 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

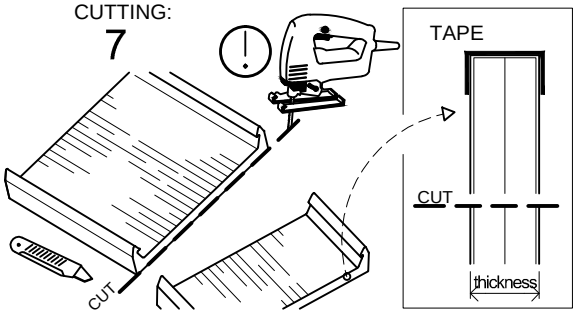
CHEMICALS	CHANGE
Lactic acid 5%	Unchanged
Oxalic acid 10%	Unchanged
Benzoic acid 10%	Unchanged
Oleic acid 100%	Unchanged
LUBRICATING OILS	
Silicone oil	Unchanged
Paraffin oil	Unchanged
Machine oil	Unchanged
PLASTICIZERS	
Tricresyl phosphate	Light clouding
Dioctyl adipate	Unchanged
Dioctyl phthalate	Unchanged
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 oftening
Styrole softening	Clouding and
Ethyl ether (5 °C)	Swelling
Diethylenetriamine	Slow decomposition
Ethylenediamine	Slow decomposition
Triethanolamine	Surface cracking
Phenol 5% opacifying	Yellowing and
Cresol	Unchanged
Formalin	Unchanged
Hydrogen dioxide 10%	Light yellowing
Triammoniumcitrate (pH = 9)	Unchanged
Triammoniumcitrate (pH = 5)	Unchanged

Testing temperature = + 23 °C

CUTTING:

7



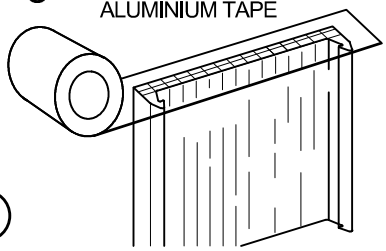
THE PANELPIÙ SHEETS ARE SUPPLIED TO THE EXACT LENGTH REQUIRED AND SEALED AT THE ENDS WITH ALUMINIUM TAPE

7. CUTTING OF THE SHEETS CAN BE EXECUTED ON SITE BY MEANS OF A BACK SAWING MACHINE (1) OR OF CUTTER (2). SEAL THE OPEN CELLS WITH AN ALUMINIUM TAPE AFTER CUTTING.

TAPE:

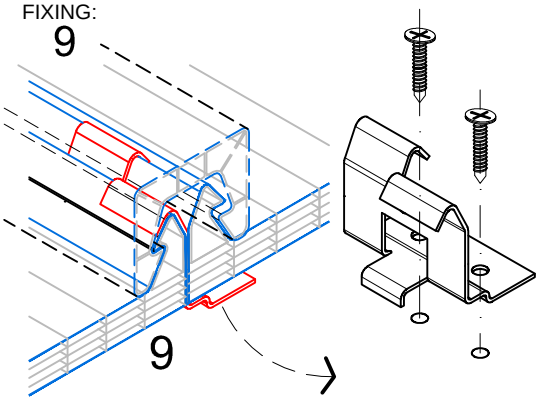
8

8. SEAL THE OPEN CELLS WITH AN ADHESIVE ALUMINIUM TAPE



FIXING:

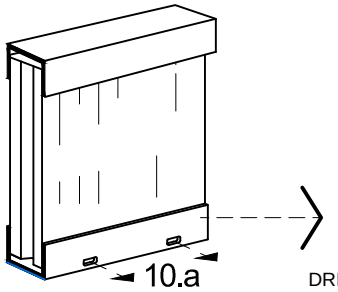
9

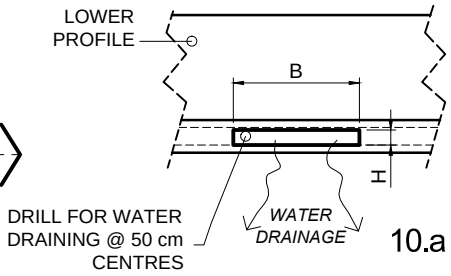


9.TO FIX THE SHEETS USE ONLY THE SPECIFIC CLAMPS

PROFILES:

10



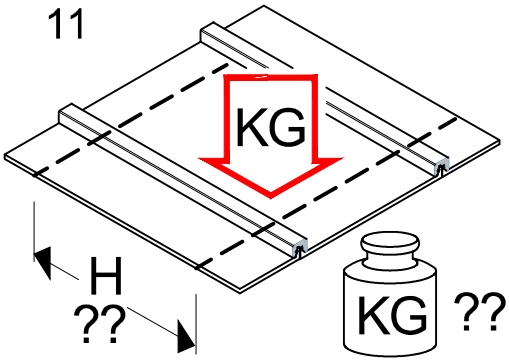


10. PROTECT THE SEALING WITH AN UPPER AND A LOWER PROFILE

10.a THE LOWER PROFILES MUST BE DRILLED FOR WATER DRAINING

LOADINGS AND SPACINGS:

11



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

WARRANTY & CERTIFICATIONS:

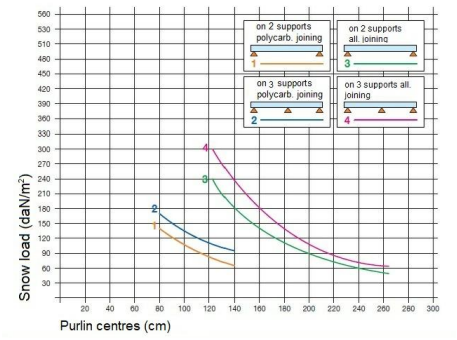
12

12.THE POLYPIU' PRODUCTS ARE COVERED BY A 10-YEAR WARRANTY – PLEASE CHECK THE TERMS OF OUR WARRANTY FOR MORE DETAILS.

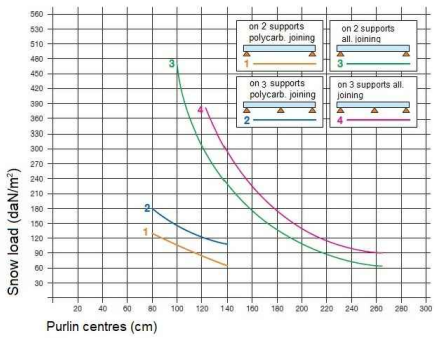
PLEASE CONTACT OUR TECHNICAL DEPT. FOR MORE DETAILS ON THE CERTIFICATIONS.

LOADING TABLES FOR FLAT COVERING ON 2 OR MORE SUPPORTS

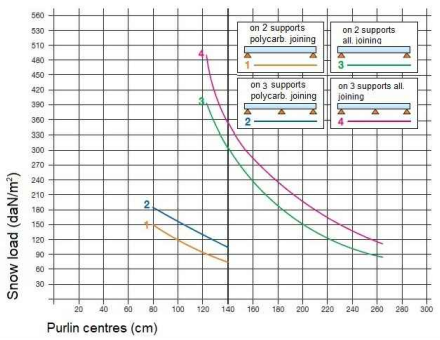
LOADING TABLE REVERSPIÙ 600 / 10



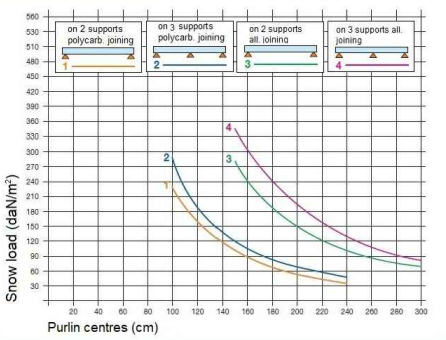
LOADING TABLE REVERSPIÙ 600 / 16



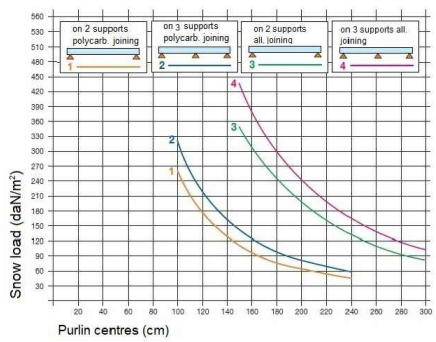
LOADING TABLE REVERSPIÙ 600 / 20



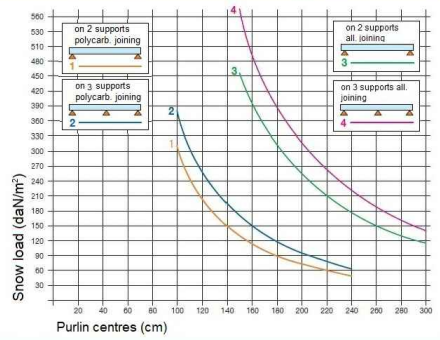
LOADING TABLE REVERSPIÙ 1010 / 25



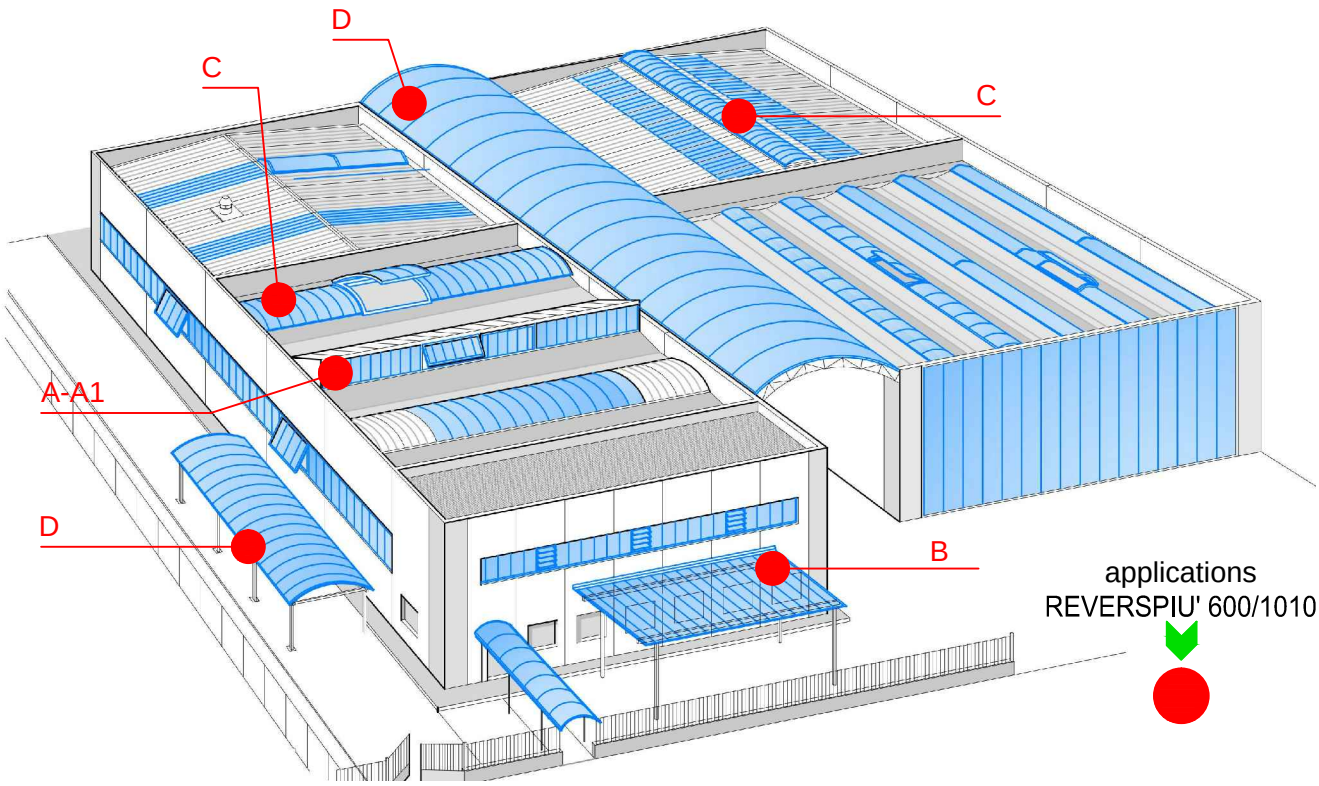
LOADING TABLE REVERSPIÙ 1010 / 32



LOADING TABLE REVERSPIÙ 1010 / 40



APPLICATIONS REVERSPIÙ 600 AND REVERSPIÙ 1010



A VERTICAL GLAZING

A1 VERTICAL GLAZING
WITH MIDDLE PURLIN

B FLAT COVERING

C* CURVED SKYLIGHT

D* CURVED COVERING ON
MORE SUPPORTS

MINIMUM COVERING RADIUS

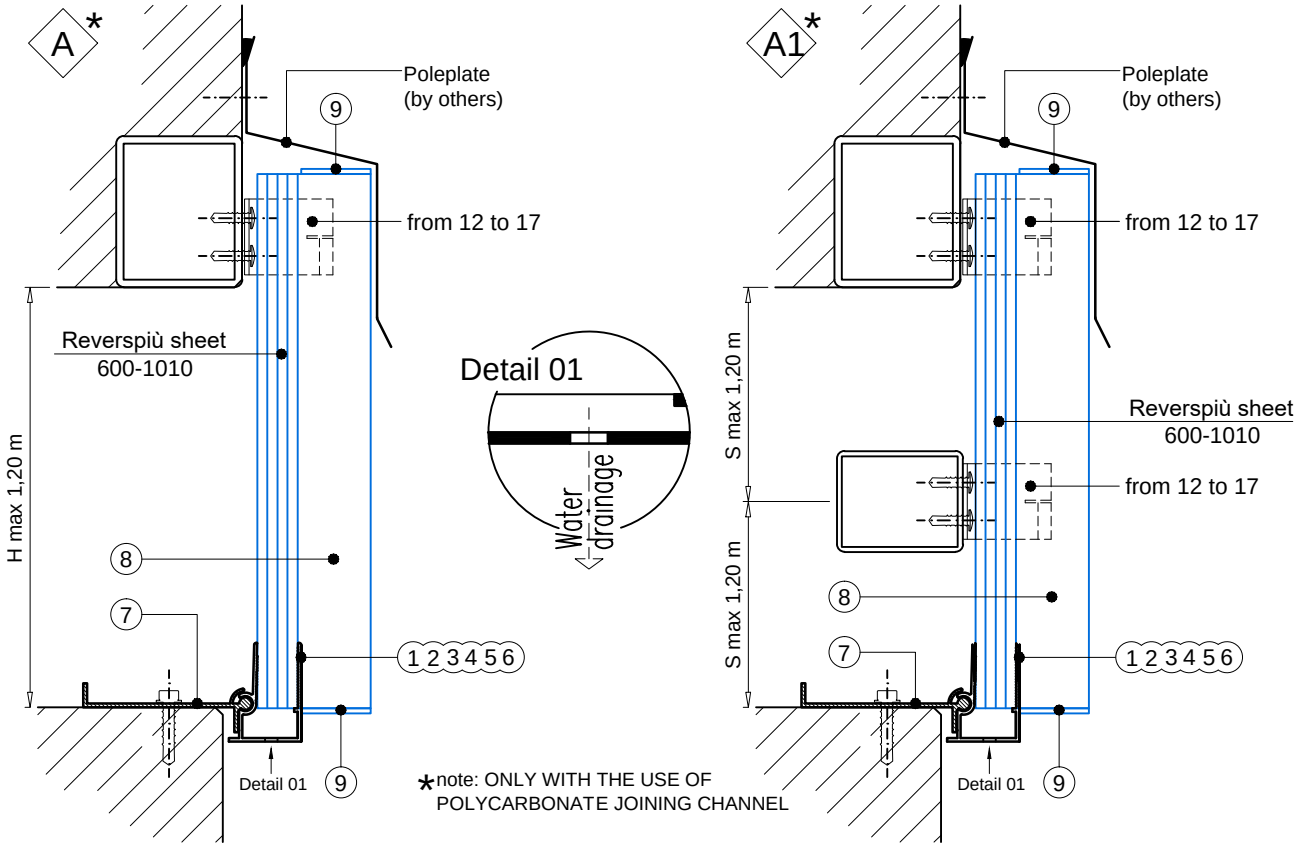
Curved Application

PRODUCT	Minimum radius
Reverspiù 600 th. 10 mm	2,00 m
Reverspiù 600 th. 16-20 mm	NO ALLOWABLE CURVING
Reverspiù 1010 th. 25-32-40 mm	NO ALLOWABLE CURVING

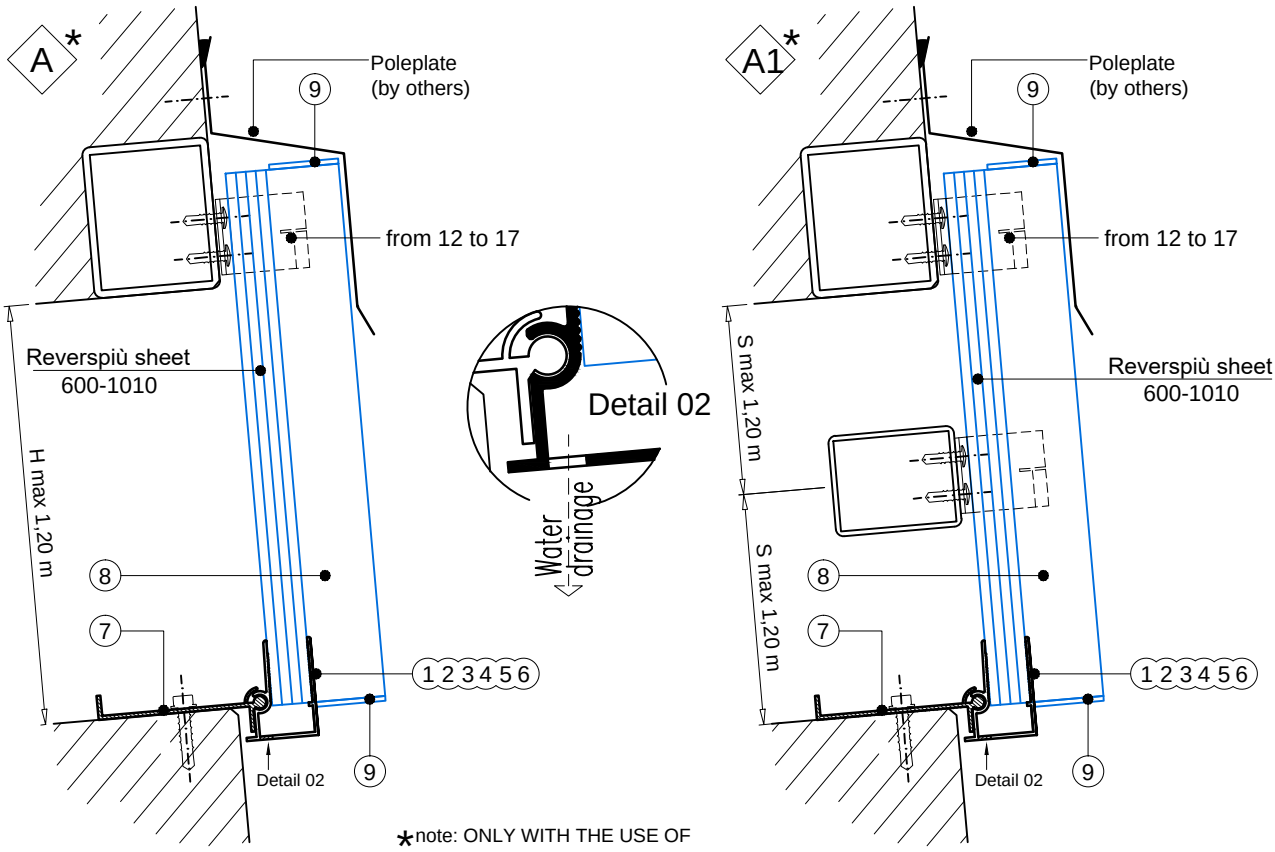
note:

*ONLY FOR THE USE OF REVERSPIÙ 600/10 with POLYCARBONATE JOINING CHANNEL

FLAT REVERSPIÙ (polycarbonate joining channel)
VERTICAL APPLICATION AND NORTHLIGHT CROSS SECTION



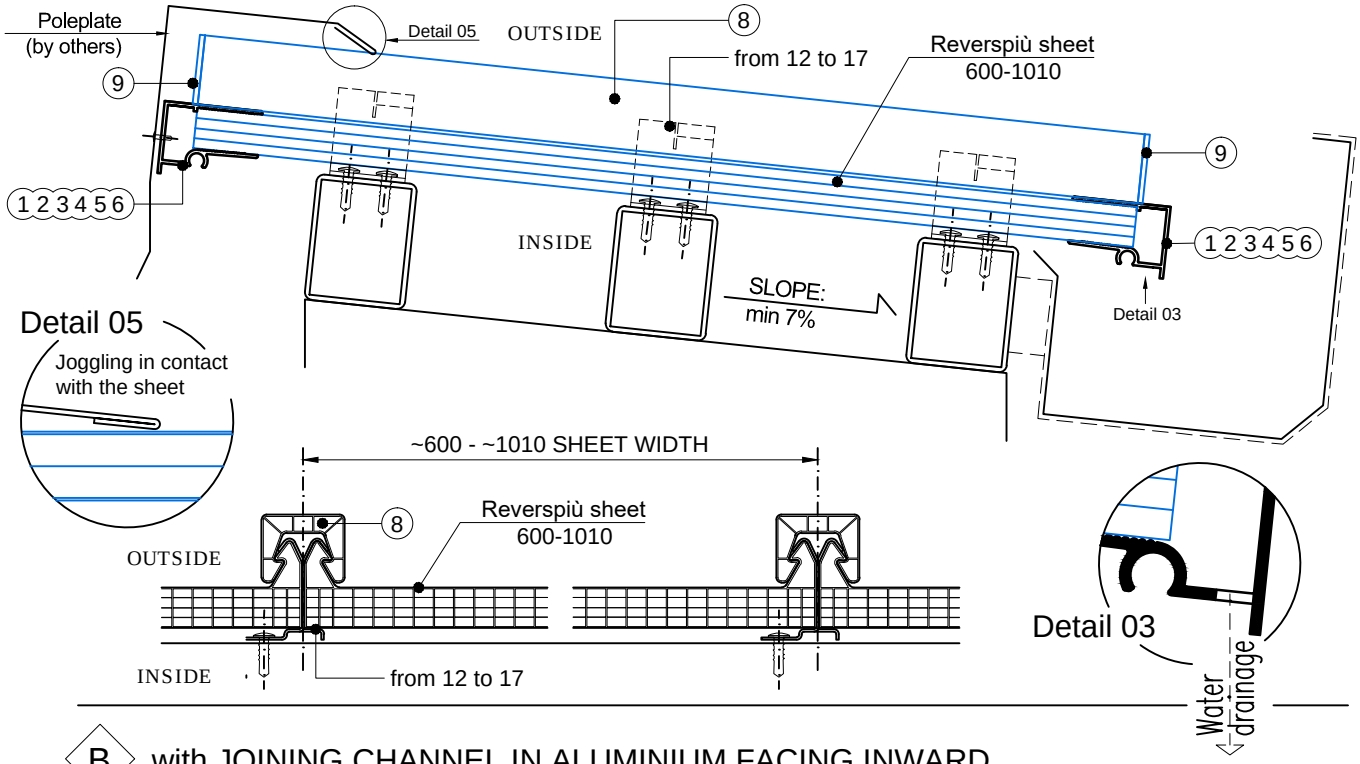
*note: ONLY WITH THE USE OF POLYCARBONATE JOINING CHANNEL



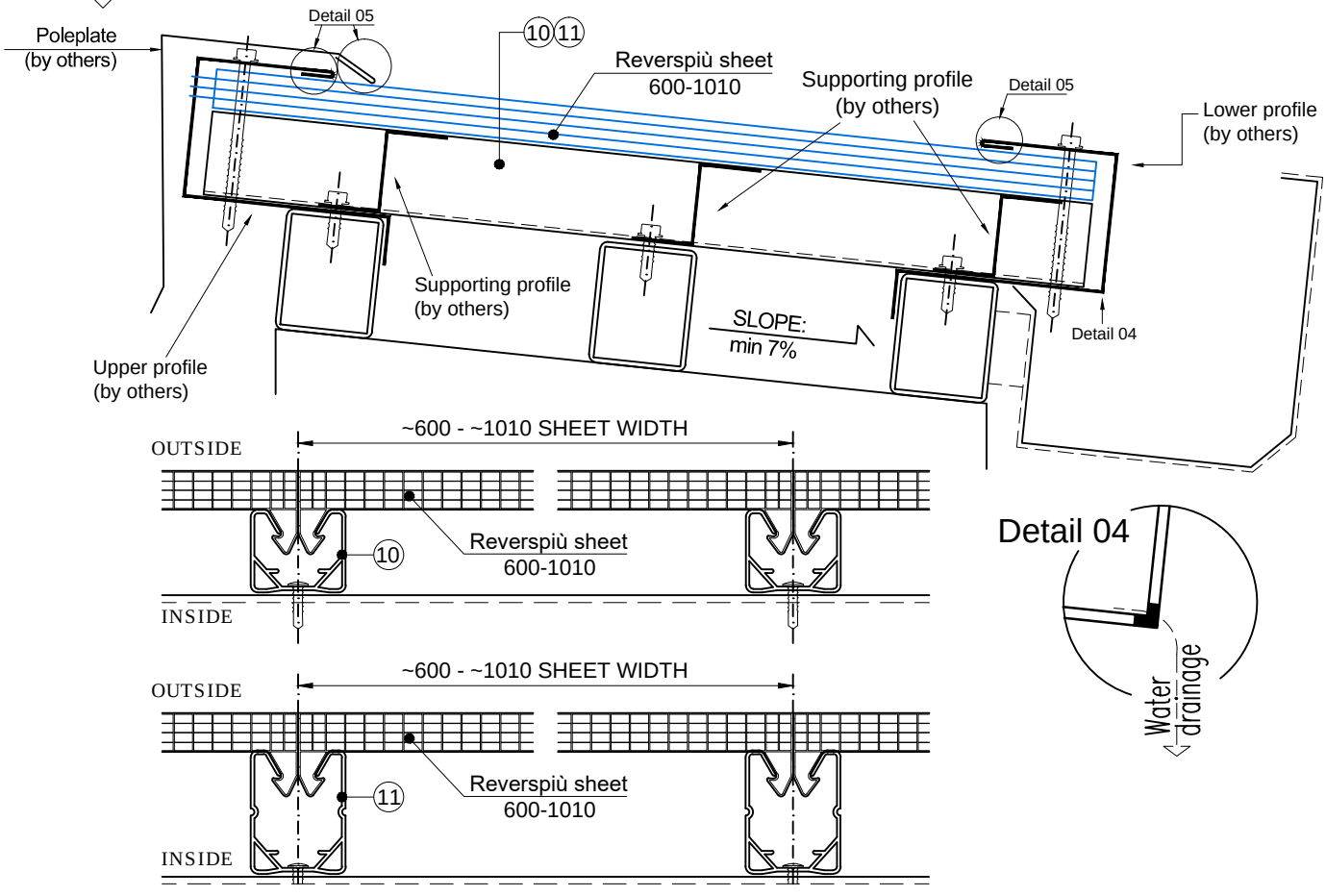
*note: ONLY WITH THE USE OF POLYCARBONATE JOINING CHANNEL

FLAT REVERSPIU'
COVERING APPLICATION CROSS SECTION

B with JOINING CHANNEL IN POLYCARBONATE FACING OUTWARD

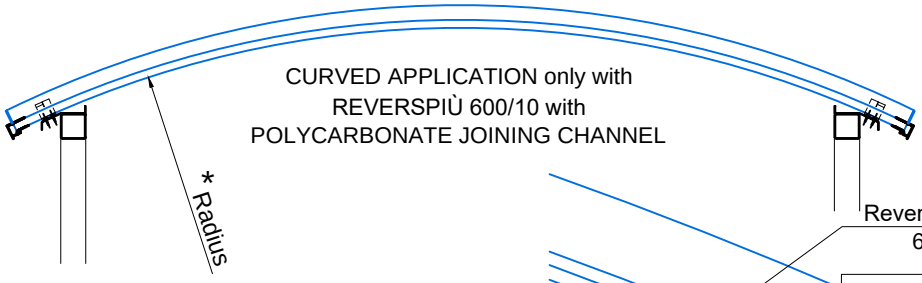


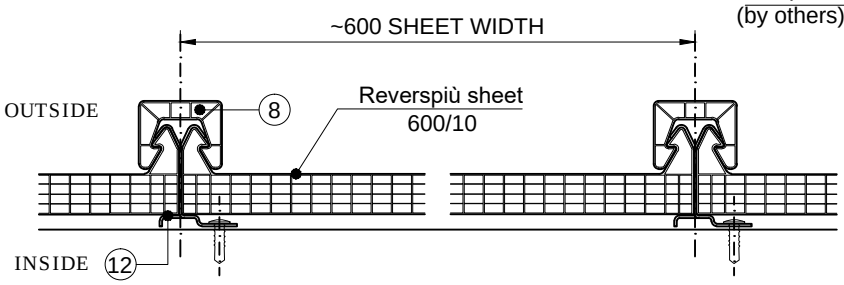
B with JOINING CHANNEL IN ALUMINIUM FACING INWARD

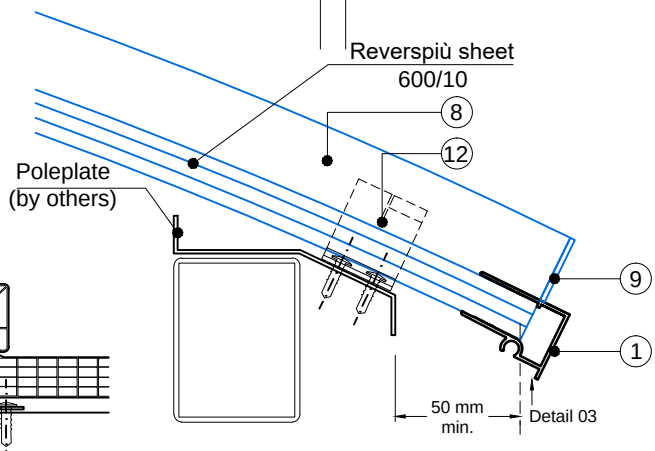


CURVED REVERSPIU'
COVERING APPLICATION CROSS SECTION

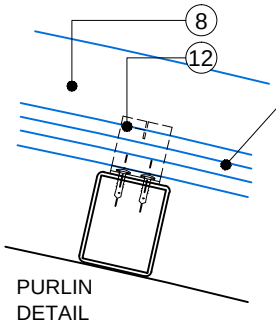
C

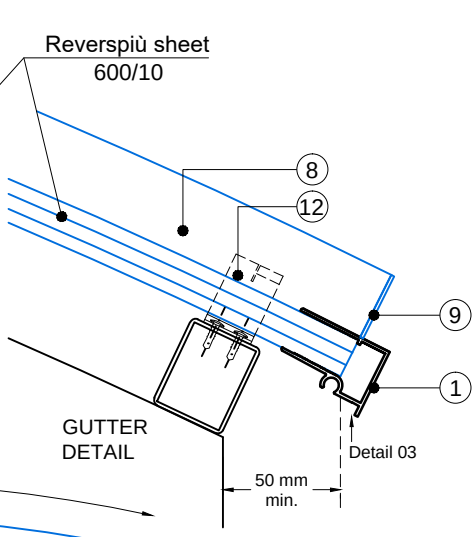






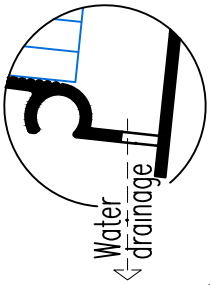
* NOTE:
for the minimum curving radius,
please refer to the table on page 8

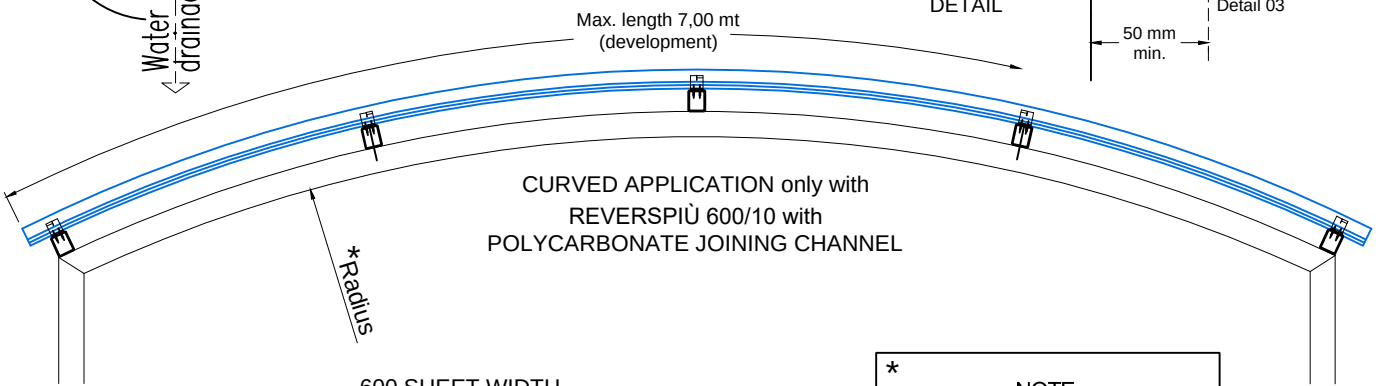


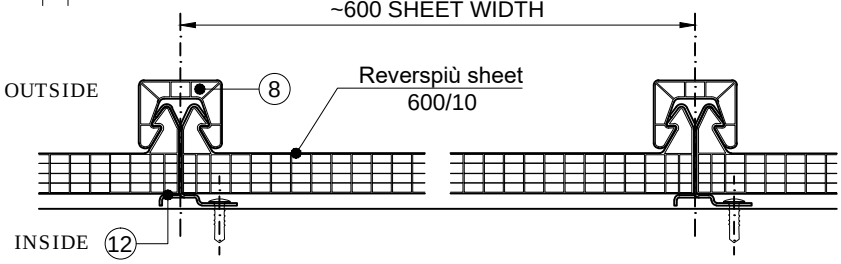


D

Detail 03

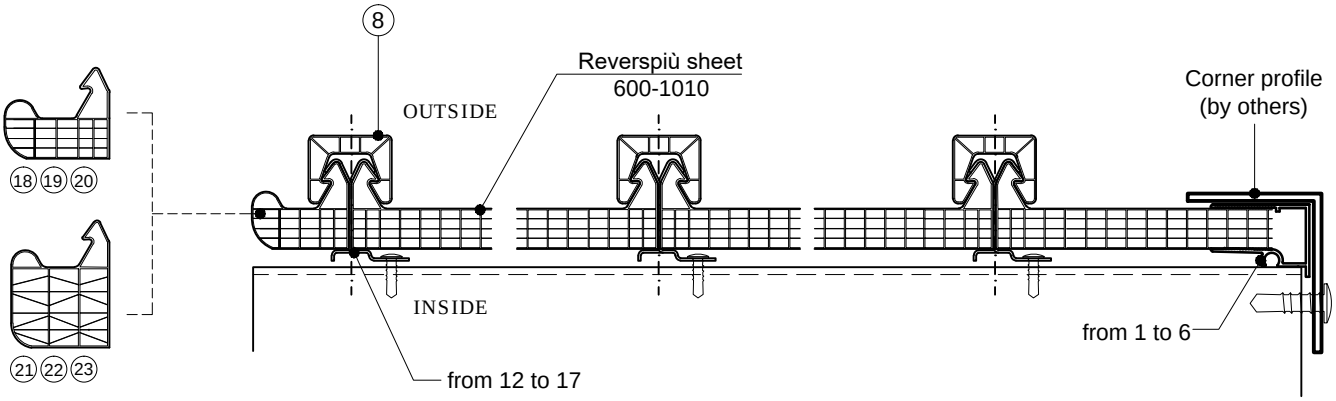


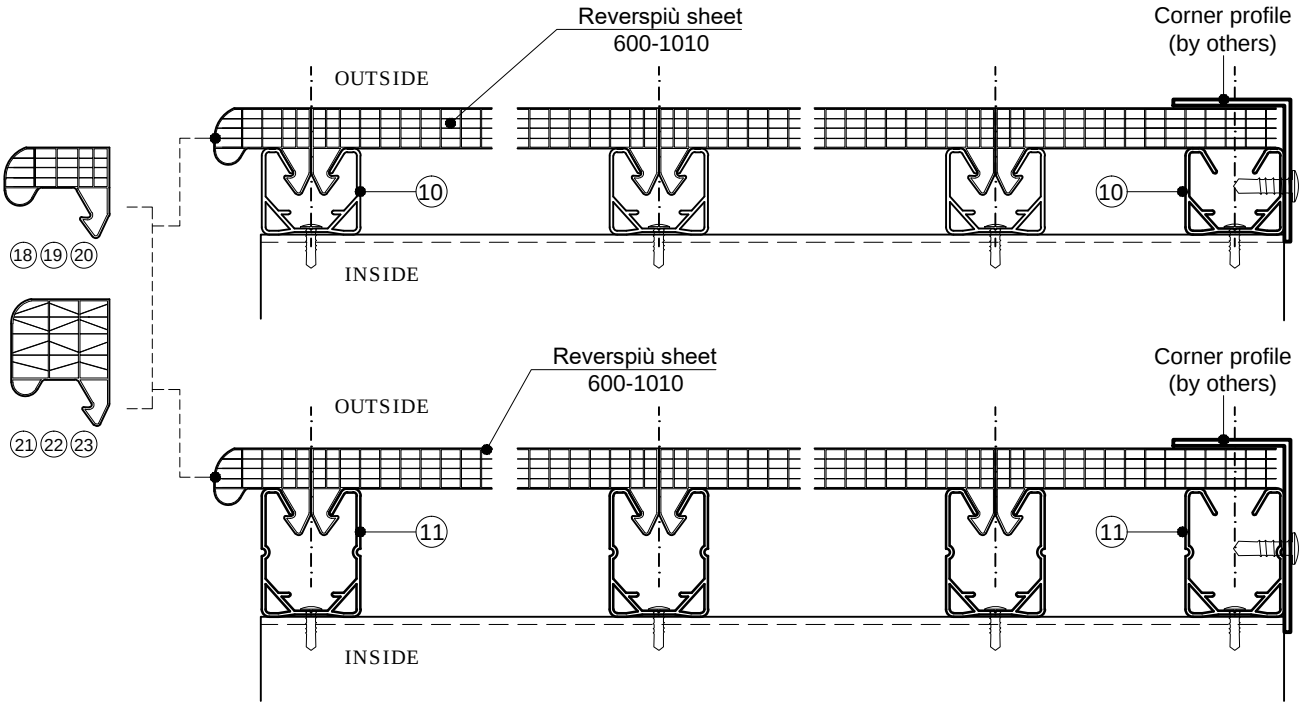




* NOTE:
for the minimum curving radius,
please refer to the table on page 8

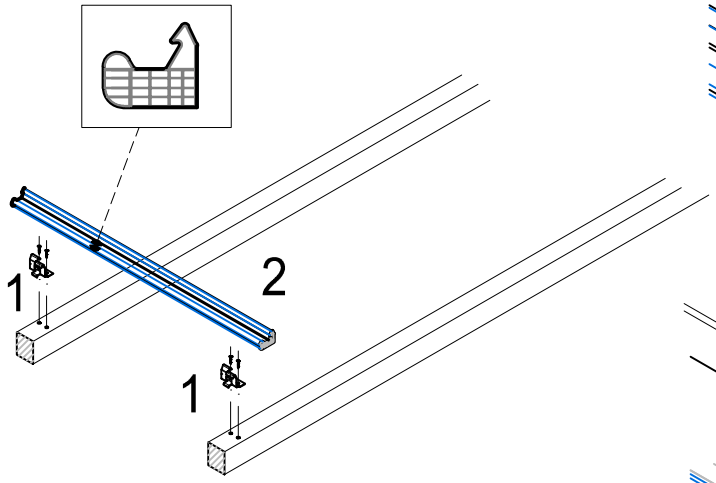
REVERSPIU'
SIDE PROFILES CROSS SECTION



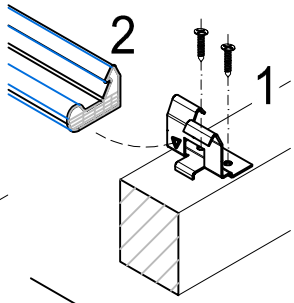


INSTALLATION GUIDE FOR FIXED COVERING

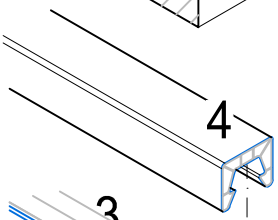
Phase 1/3 with *POLYCARBONATE JOINING CHANNEL*



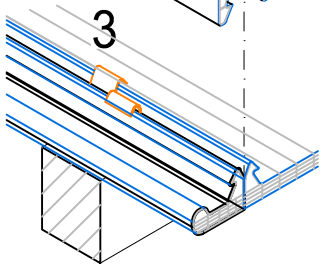
1 LAY THE CLAMPS ON THE SUPPORTS AND FIX THEM WITH SCREWS



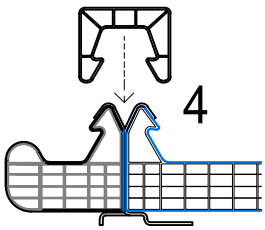
2 INSERT THE SIDE POLYCARBONATE PROFILE INTO THE CLAMPS

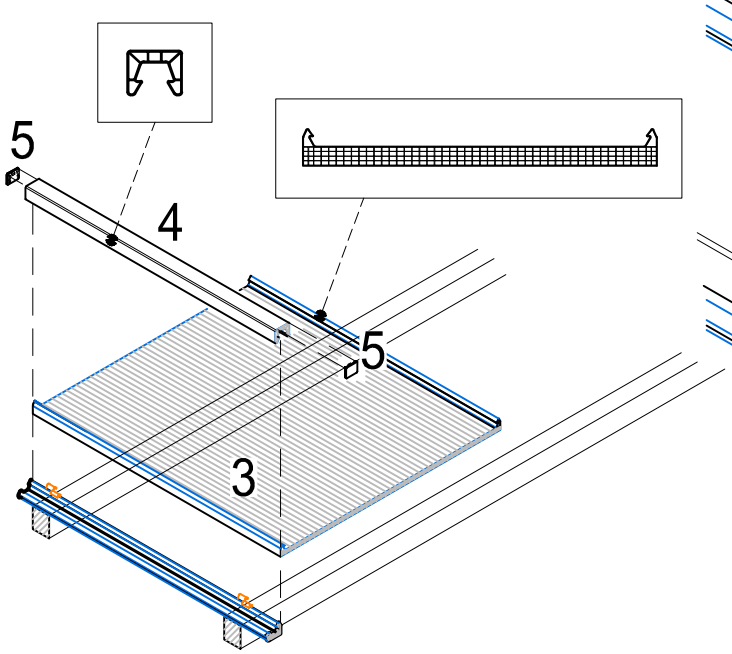


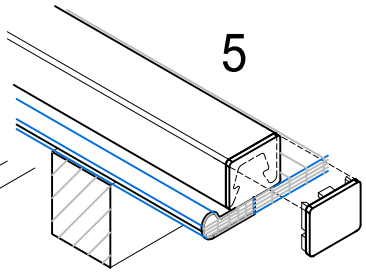
3 INSERT THE FIRST SHEET INTO THE CLAMPS



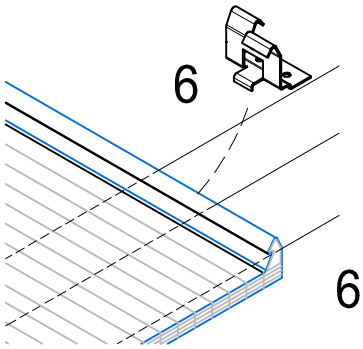
4 LAY THE FIRST JOINING CHANNEL

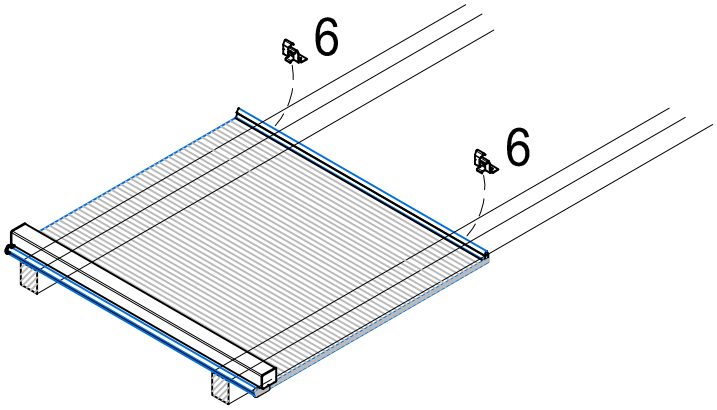




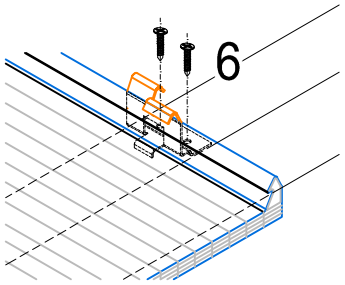


5 CLOSE THE JOINING CHANNEL ENDS WITH THE CAPS



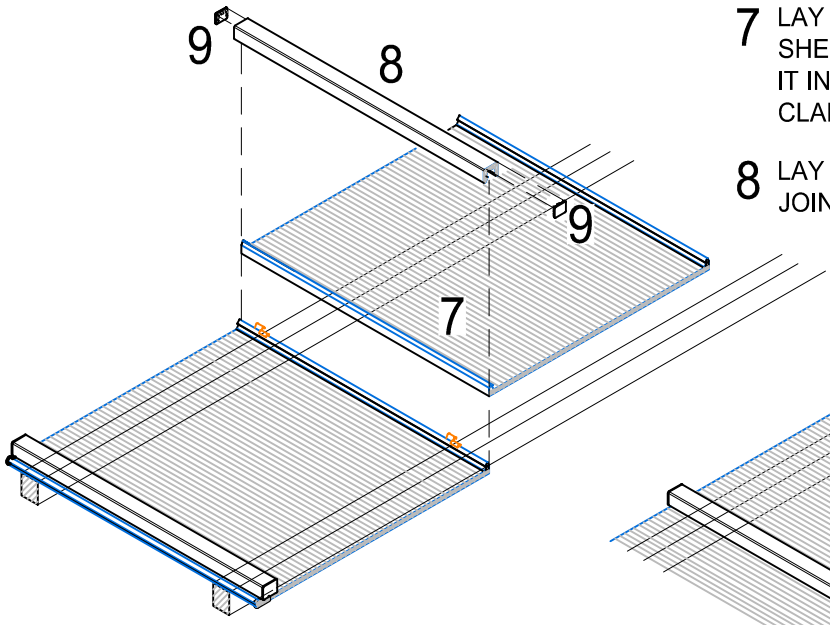


6 LAY THE CLAMPS ON THE SUPPORTS AND FIX THEM WITH SCREW



INSTALLATION GUIDE FOR FIXED COVERING

Phase 2/3 with *POLYCARBONATE JOINING CHANNEL*

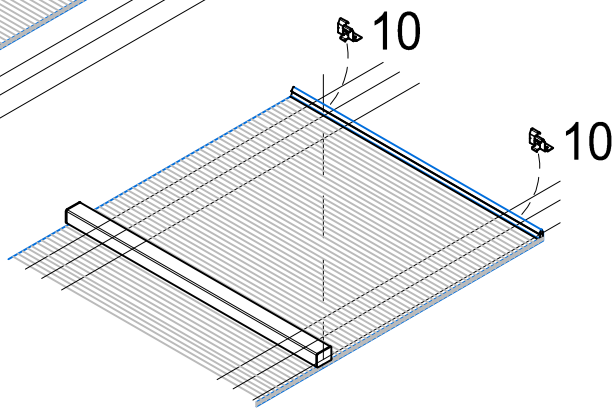


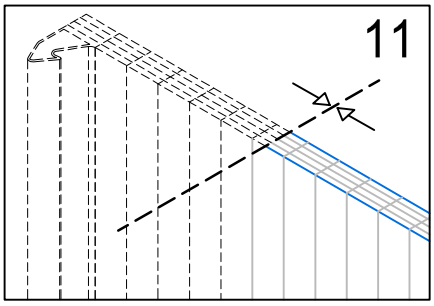
7 LAY THE SECOND SHEET AND INSERT IT INTO THE CLAMPS

8 LAY THE SECOND JOINING CHANNEL

9 CLOSE THE JOINING CHANNEL ENDS WITH THE CAPS

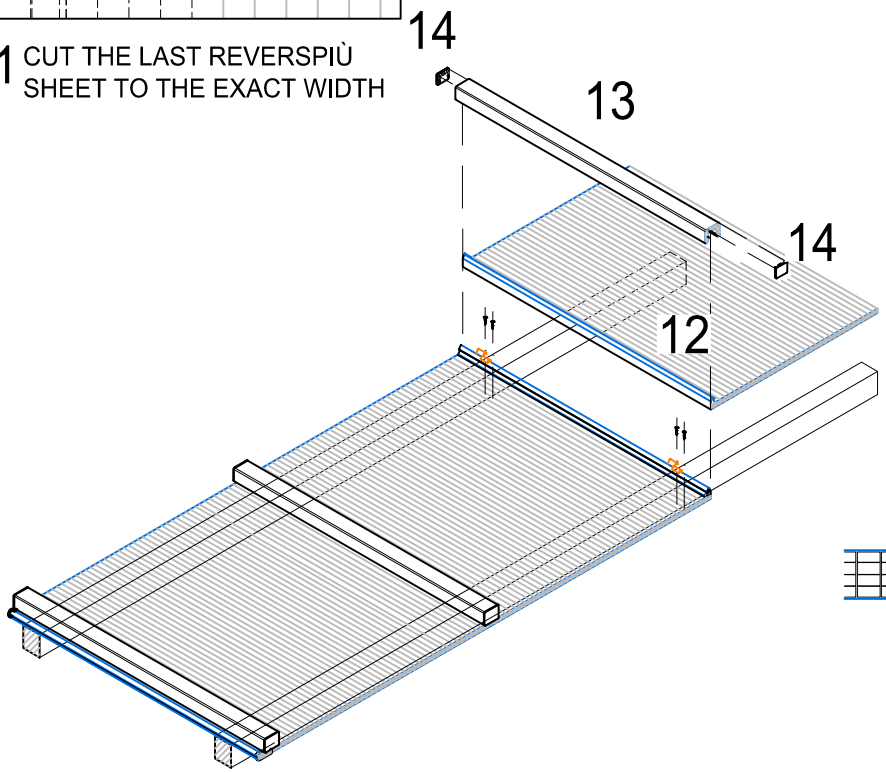
10 LAY THE SECOND SHEET AND INSERT IT INTO THE CLAMPS



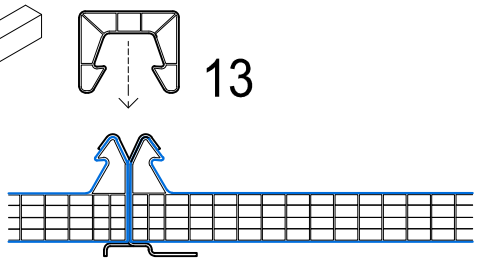


11 CUT THE LAST REVERSPIÙ SHEET TO THE EXACT WIDTH

12 LAY THE LAST CUT SHEET AND INSERT IT INTO THE CLAMPS, THE CUT END DOES NOT REQUIRE CLAMPS



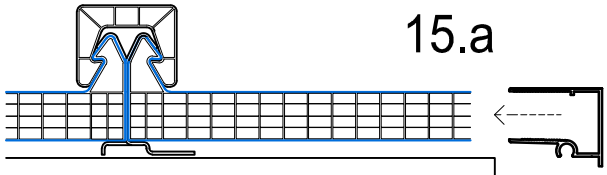
13 LAY THE JOINING CHANNEL



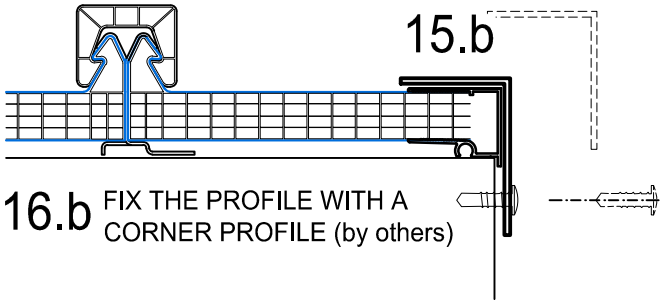
14 CLOSE THE JOINING CHANNEL ENDS WITH THE CAP

INSTALLATION GUIDE FOR FIXED COVERING

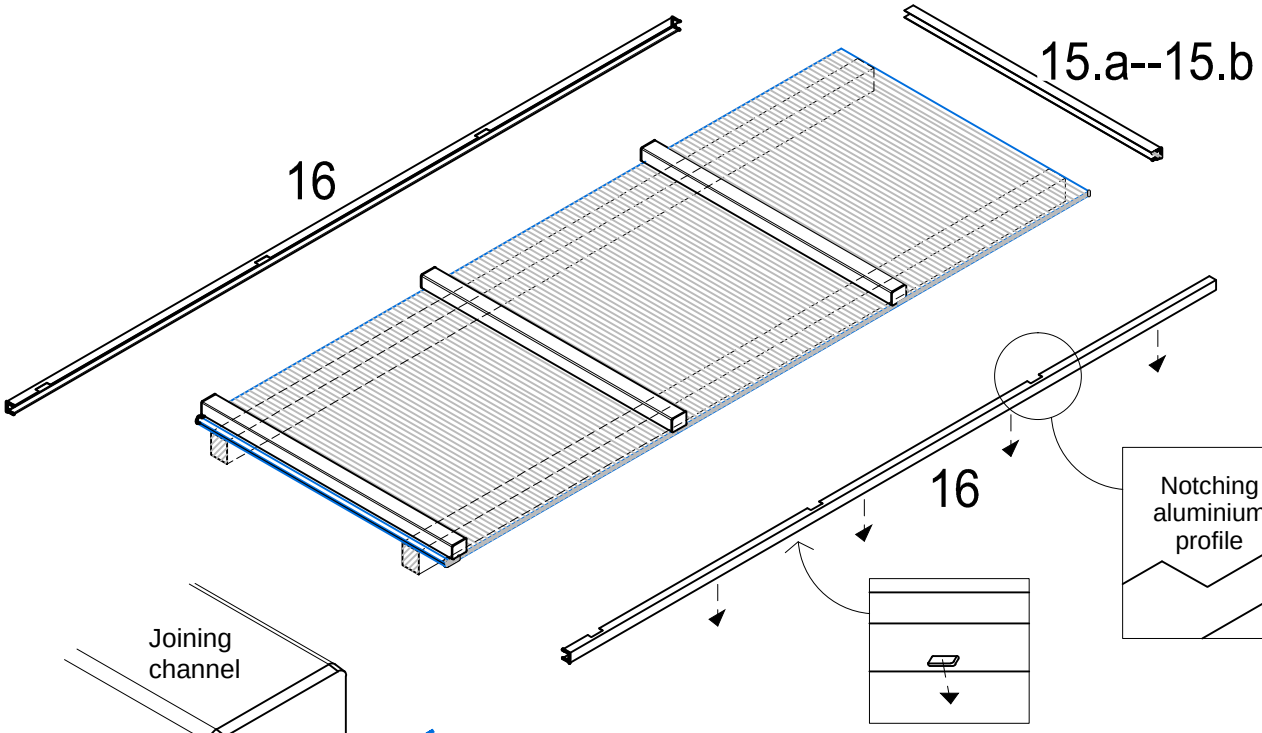
Phase 3/3 with *POLYCARBONATE JOINING CHANNEL*

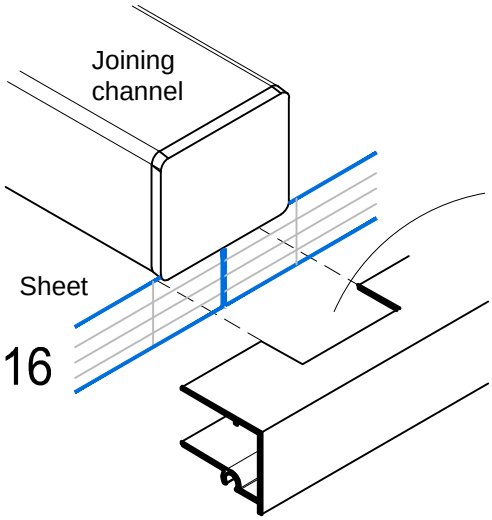


15.a CLOSE THE CUT SHEET END WITH THE LOWER ALUMINIUM PROFILE



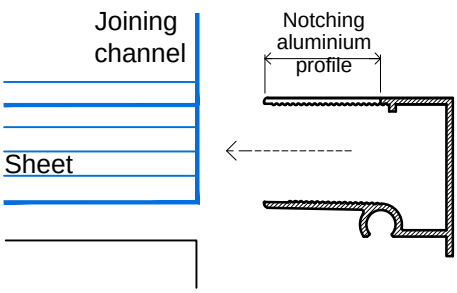
16.b FIX THE PROFILE WITH A CORNER PROFILE (by others)

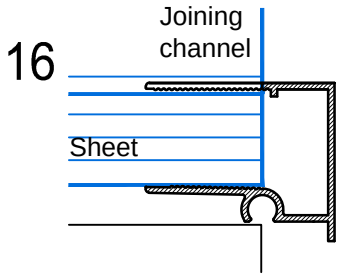




16 INSERT THE UPPER AND LOWER ALUMINIUM PROFILES INTO THE UPPER AND LOWER PART OF THE SHEETS

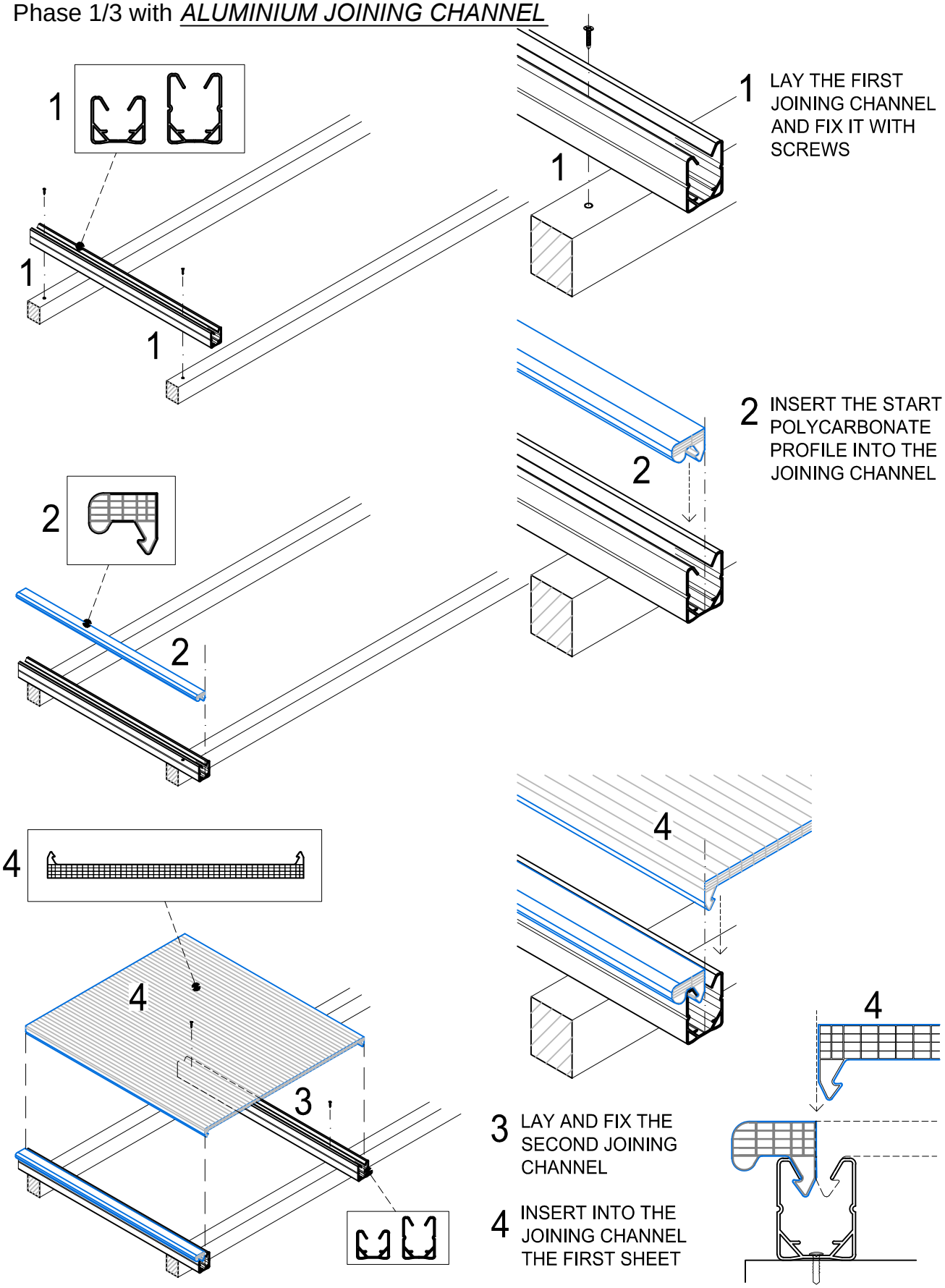
ATTENTION:
THE SHEET NOTCHING MUST BE LAID NEXT TO THE JOINING CHANNEL





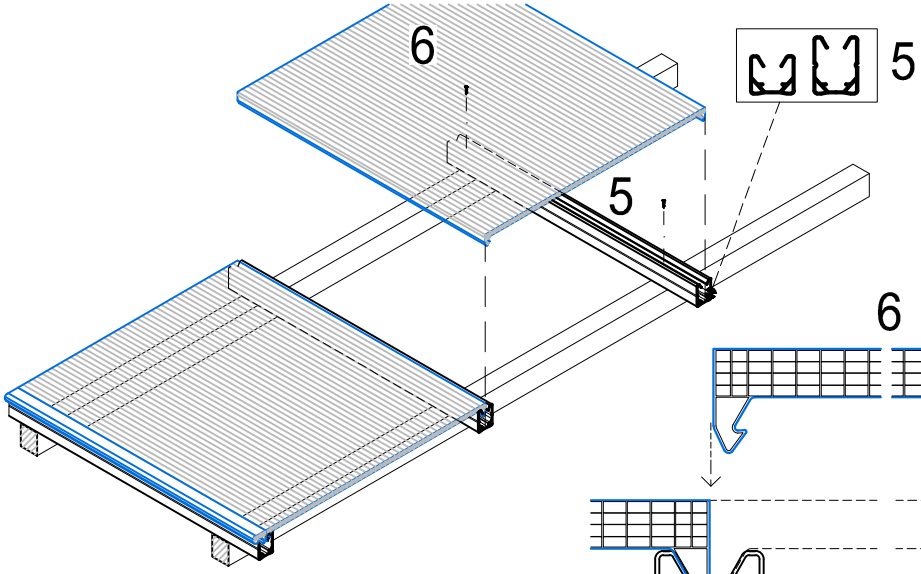
INSTALLATION GUIDE FOR FIXED COVERING

Phase 1/3 with *ALUMINIUM JOINING CHANNEL*



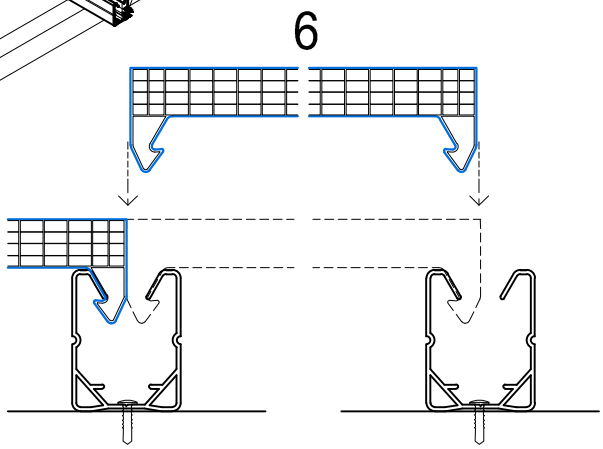
INSTALLATION GUIDE FOR FIXED COVERING

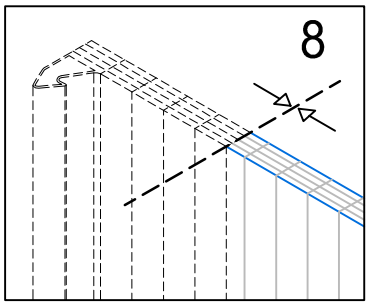
Phase 2/3 with *ALUMINIUM JOINING CHANNEL*



5 LAY AND FIX THE THIRD JOINING CHANNEL

6 INSERT INTO THE JOINING CHANNELS THE SECOND SHEET

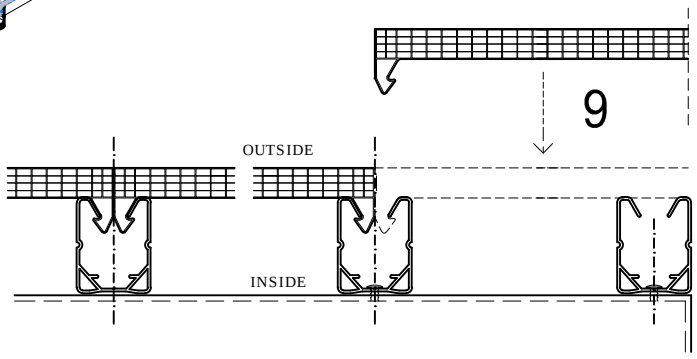




8 CUT THE LAST REVERSPIÙ SHEET TO THE EXACT WIDTH

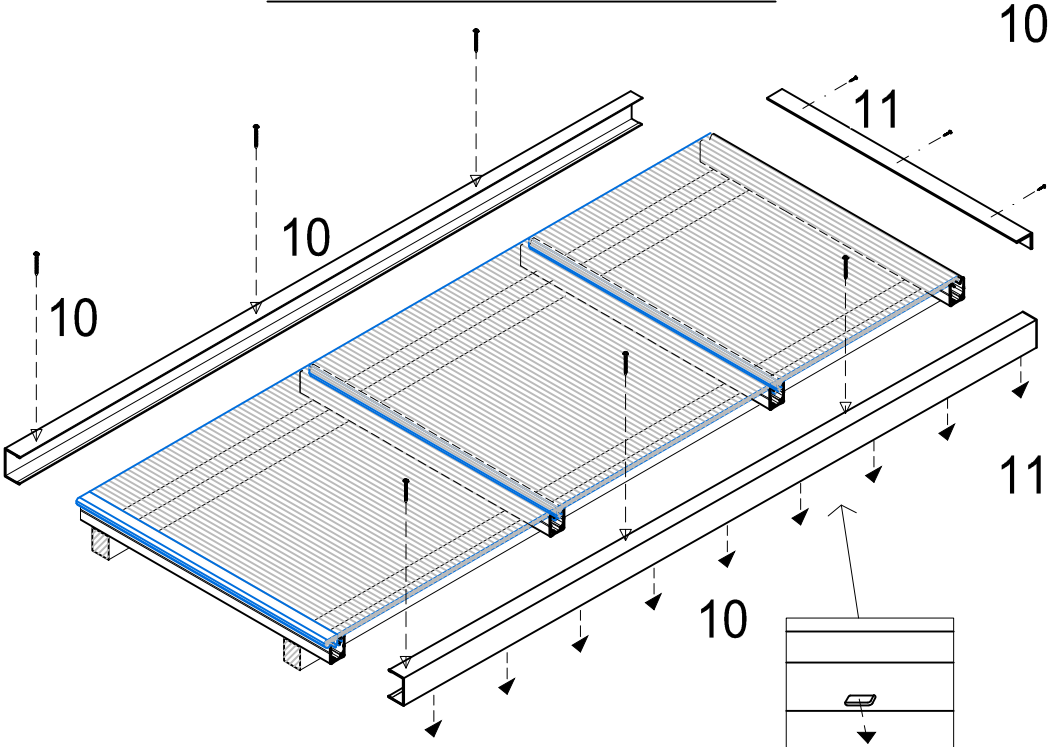
7 LAY AND FIX THE LAST JOINING CHANNEL

9 LAY THE LAST SHEET JOINING THE END WITH THE JOINT INTO THE JOINING CHANNEL



INSTALLATION GUIDE FOR FIXED COVERING

Phase 3/3 with *ALUMINIUM JOINING CHANNEL*

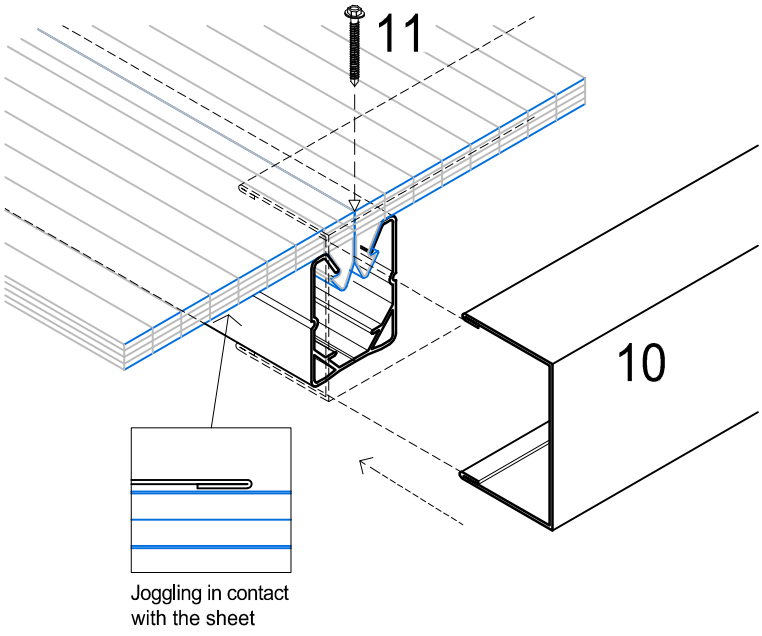


10 INSER THE LOWER AND UPPER PROFILES IN THE UPPER AND LOWER PART OF THE COVERING

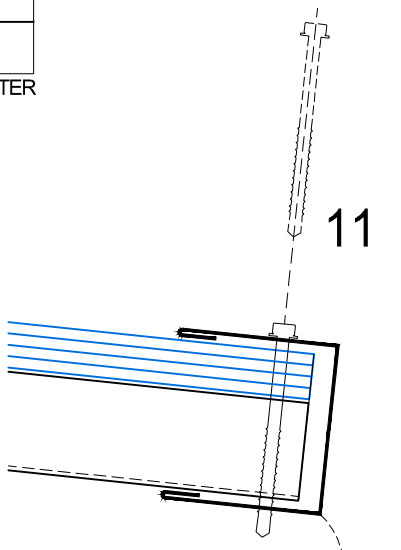
ATTENTION
THE LOWER PROFILE MUST BE DRILLED FOR WATER DRAINAGE

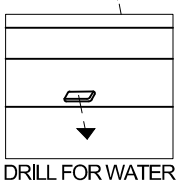
11 SCREW THE LOWER AND UPPER PROFILES THROUGH THE JOINING CHANNEL

DRILL FOR WATER DRAINAGE

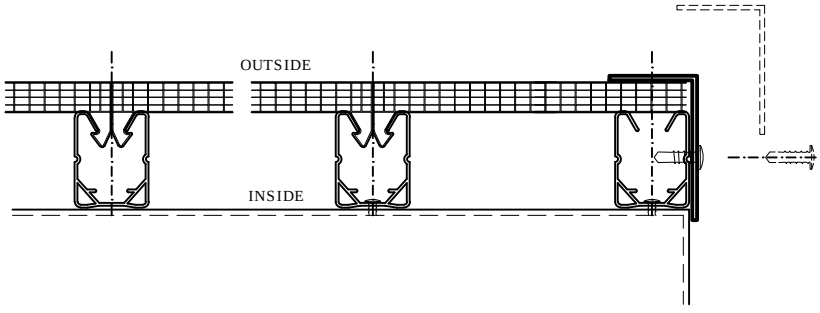


Joggling in contact with the sheet





DRILL FOR WATER DRAINAGE



12 BLOCK THE LAST SHEET ON THE JOINING CHANNEL WITH A CORNER PROFILE (by others))