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Professional Products and Systems for Translucent Roof and Facade Cladding



9 Duvarlı Wall



MULTILUX

Interlock System Polycarbonate Multiwall Facade Glazing Panel

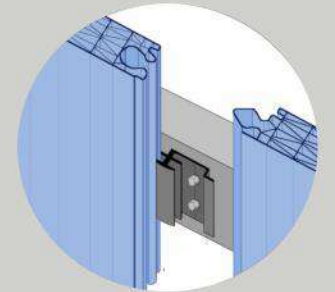
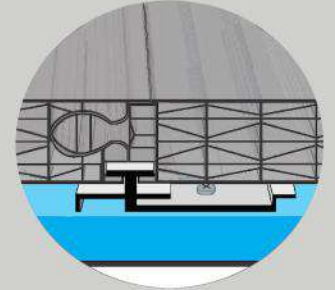
Multilux -549 is a polycarbonate translucent cladding panel for external vertical and / or inclined walls. Very strong structure with nine diagonal and horizontal multiwalls in 40 mm thickness of pc panel combine excellent mechanical properties and thermal insulation. Pc panel system is installed by means of panel coupling, provided by tongue and groove joints and accessories for easy, fast fixing on the structure. External and internal big spans walls can be cladded in aesthetically translucent uniform surface without junction profiles are needed by means of this pc panel system. The system accessories, such as outer profiles in anodized aluminium, hooks and gaskets makes the system complete, versatile and secure against outside loads and provides weather resistance. Multilux polycarbonate system offers excellent architectural solutions by transforming exterior and interior spaces into transparent light walls with natural, color alternatives with its superior features.

Application Areas

- Facade cladding
- Curtain walls
- Sport, industrial
- Universal building
- Refurbishment facade cladding
- Sheet roof
- Interior application
- Ventilation and smoke windows

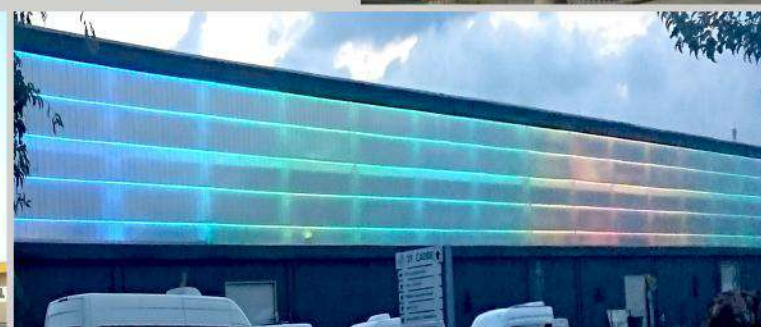
The Advantages of Multilux

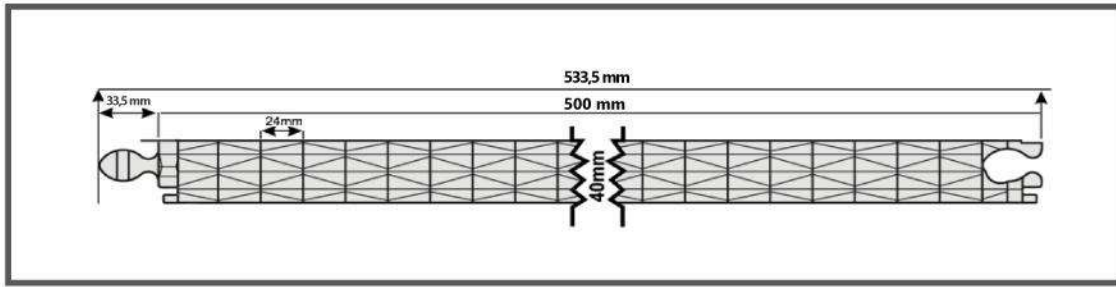
- High light transmission
- Variety of colours
- Excellent heat-insulating
- High fire resistance
- UV protection
- 10 warranty
- 200 times tougher than glass
- Easy and safe system



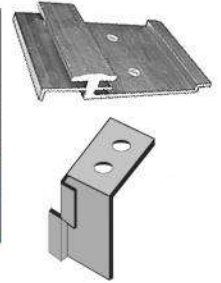
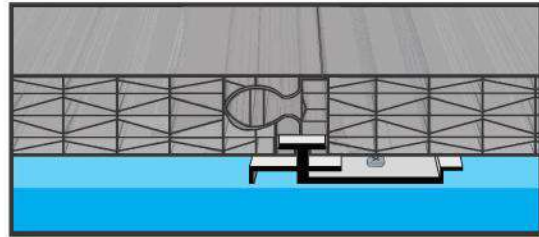
The Products and Systems of Polinet

Reflect Daylight and Sky Colours Perfectly to Architectural Size



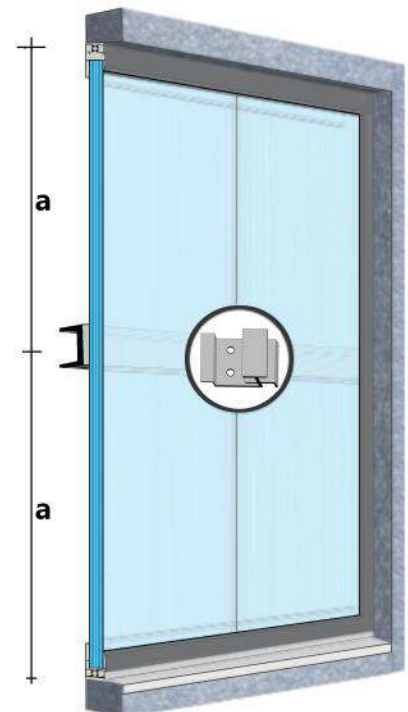


Thickness-mm	40
Width-mm	500
Structure	9 Wall
Weight	4,2 kg/mg
Saund Insulation	17 dB
Service Temperature	-40 /+120
Thermal Conductivity-W/m²°K	1
Length	max transportable
Light Transmission	
Clear	55
Opal	45
Glass green	44
Bronze	40
Blue	30



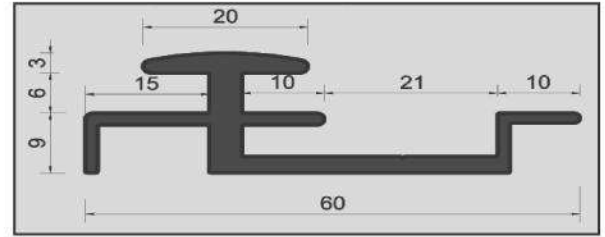
The aluminium fixing hook enables the panel to be fixed on supporting structures of facade, to achieve max height for glazing, in situations where a panel on its own would not show resistance against facade loads. It must be screwed on supporting structures of facade and its horn must be placed inward the slots of pc panels.

Multilux Pc Panels, which are interlocked by means of their special forms, are securely fixed by screwing the aluminum hooks attached to the connection slots in the backside of the pc panels on two or more horizontal purlins of facades. It is necessary to take into account the distances between the horizontal purlins of the facades in order to provide sufficient strength against wind load.



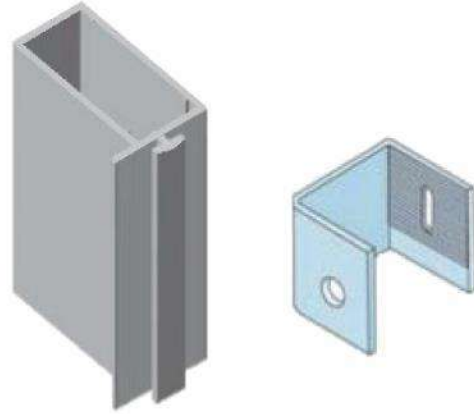
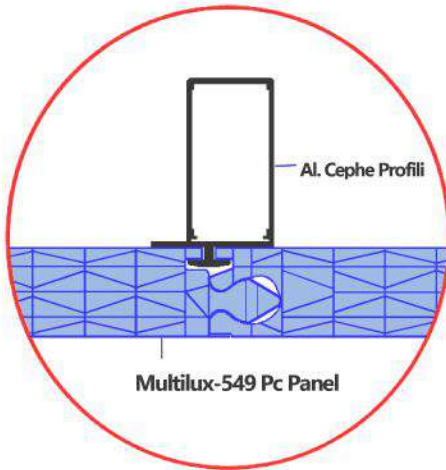
ALUMINIUM FIXING HOOK -51137

The aluminium fixing hook enables the panel to be fixed on supporting structures of facade, to achieve max height for glazing, in situations where a panel on its own would not show resistance against facade loads. It must be screwed on supporting structures of facade and its horn must be placed inward the slots of pc panels.



ALUMINIUM ANCHOR PROFILE

The aluminium anchor profile is developed against very high facade load. Multilux pc panels are installed by means of a multi supporting system of the aluminium anchor profiles. It is possible to fix the aluminium anchor profiles in facade frame by several solution details such as anchor bolt, inner brackets, fixture clips.

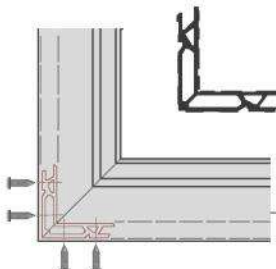


SYSTEM ALUMINIUM PROFILES

Al. Frame Profile with thermal break Code :5104950	Al. Frame Profile Code:51050	Al.Frame Body Profile Code:51186	Al. Frame Upper Profile Code: 51187	Al.Screw Profile Code:51188	Al. Frame Upper Profile Code:51217	Al.Window Profile with Thermal Break Code:5105152

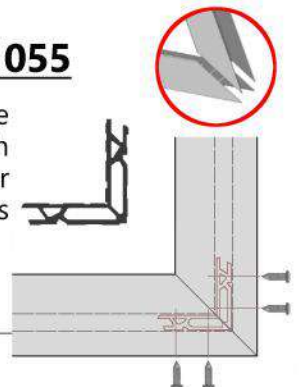
ALUMINIUM CORNER CONNECTOR- Code:51055

Aluminium corner connectors enable an angle 90 to be constructed frame by fixing into cells of the frame with thermal break and windows profiles. Two pieces corner connectors are necessary for every corner. The fixing is made by screwing or pressing.



Al. Frame Profile with Thermal Break
Code:5104950

Al. Casement Profile with Thermal Break
Code:5105152



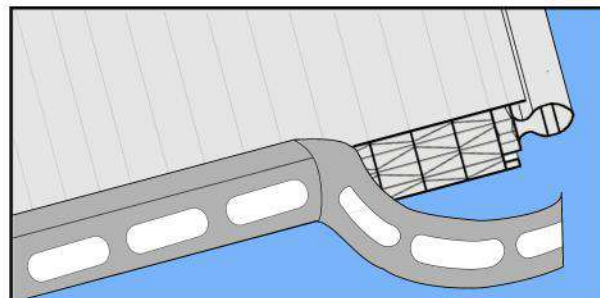
ADHESIVE TAPES

Before the installation, the both open edges of panel must be closed with adhesive tape in order to prevent to enter dust into pc panels . It is recommended to seal pc panel with filter adhesive tapes because of condensation could occur inside of pc panel. A filtered adhesive tape permits air to move freely in and out of the pc panels, helping minimise condensation. filter adhesive tape is enable to drained and ventilated inside of the pc panels. Taping can be requested and done in factory during production.



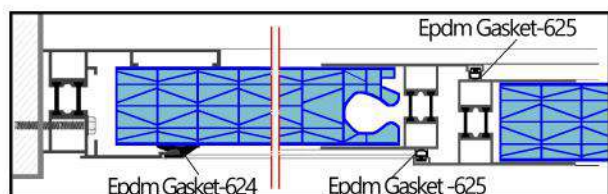
Filtered Adhesive Tape-70 mm

Adhesive Tape-70mm



EPDM GASKETS

	Code:624	The quantity in one carton box.	275mt /15kg
	Code: 625		410mt /15kg

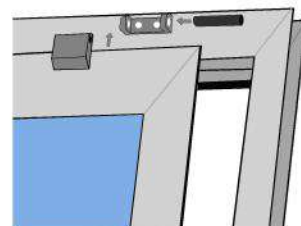


The gaskets are made with material (EPDM) compatible with polycarbonate. They must be installed edges of aluminium frame and window profiles in order to ensure water tightness surface in the glazing. The EPDM rubber gasket -624 is used for external side of frame profiles . The side with a knurling must be inserted into the edge of frame profile. The EPDM gasket -625 is inserted into gasket slot of windows profile.

ALUMINIUM HINGE

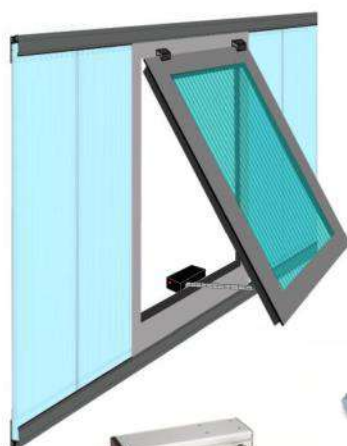


The aluminum hinge system enables the window system with thermal break to be opened outward easily and safely by very large angle. It has two parts .A pin joins the two parts together. It must be attached to the sub frame with two screws 4.2 mm x 13 mm long and to the opening frame with two screws 5 mm x10 mm long



WINDOW AUTOMATION SYSTEM

The ventilation and smoke evacuation windows produced with thermal break aluminum wing profiles can be easily integrated into the glazing system . opening and closing functions of The windows are performed with electrical either rod or chain mechanisms and automation control system. Control units enable multiple uses by grouping the electrical opening mechanisms. The smoke, rain and wind sensors are optionally available and they can be connected to the control units. The automation system are operated with button or remote control.



Electric Opening Mechanism-Chain



Electric Opening Mechanism- Linear

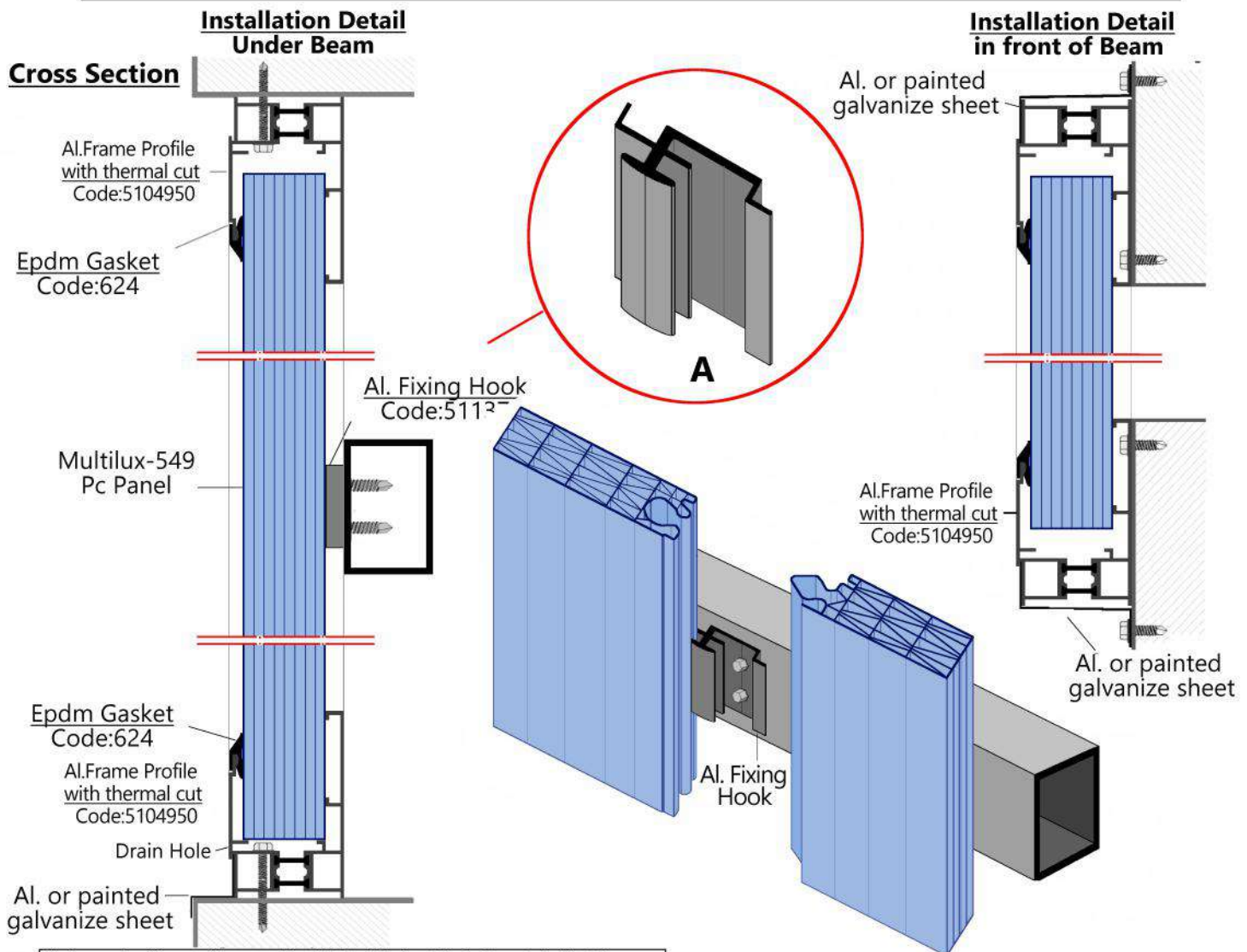
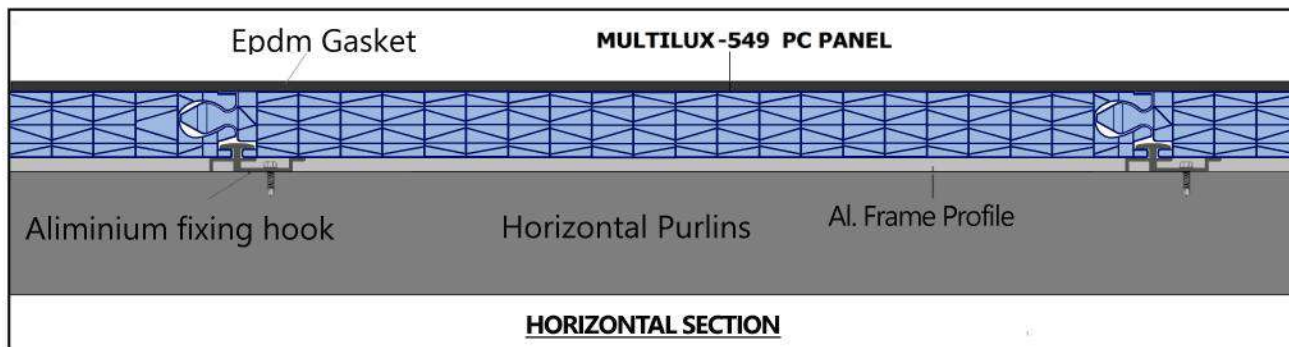


Control Units

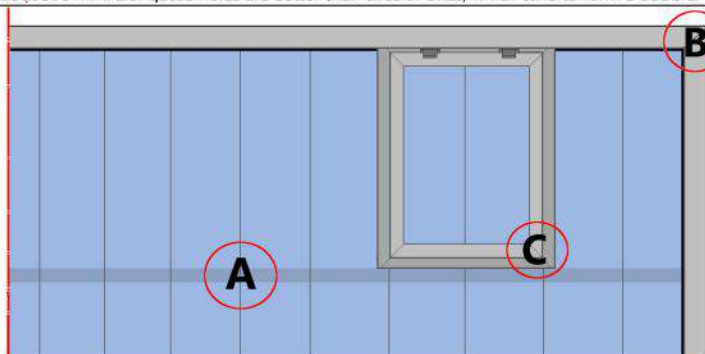


Button- Remote Control
Smoke -Rain- Smoke Sensors

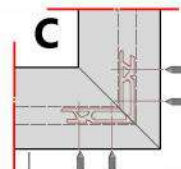
FRAME ALUMINIUM WITH THERMAL BREAK AND INSTALLATION ACCESSORIES



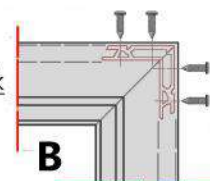
The lower aluminium profiles, must be drilled with holes at the bottom to facilitate thegress of condensation or water which has penetrated. The distance between the centres should be about 500 mm. Elongated holes are better than circular ones, which tend to form a bubble.



Al. Frame Profile with Thermal Break
Code:5104950



Al. Casement Profile with Thermal Break
Code:5105152

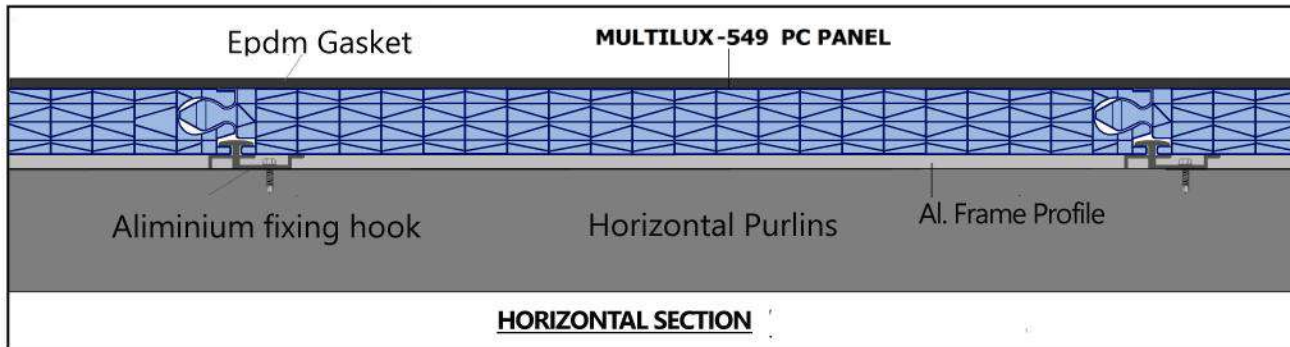


Al. Corner Connector-51055

Aluminium corner connectors enable an angle 90 to be constructed frame by fixing into cells of the frame with thermal break and windows profiles. Two pieces corner connectors are necessary for everyone corner. The fixing is made by screwing or pressing.



ALUMINIUM FRAME PROFILE AND INSTALLATION ACCESSORIES



Cross Section

Al. Frame Profile
Code: 51050

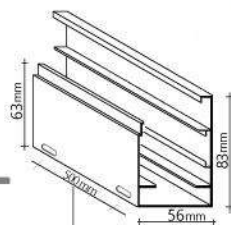
Epdm Gasket
Code:624

Al. Fixing
Hook

Epdm Fitol

Al. Frame Profile
Code: 51050

Drain Hole



The lower aluminium profiles, must be drilled with holes at the bottom to facilitate thegress of condensation or water which has penetrated. The distance between the centres should be about 500 mm. Elongated holes are better than circular ones, which tend to form a bubble.

Installation Detail in front of Beam

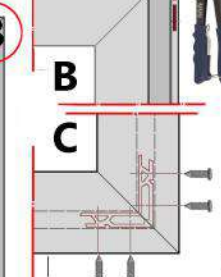
Al. Frame Profile
Code: 51050

Epdm Gasket
Code:624

A

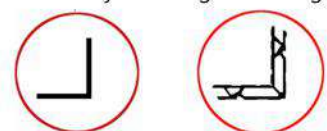
Al. Body Profile
Code:51186

Al. Fixing
Hook



Al. Bracket-50x50x1,5 mm

The aluminum brackets are be installed into the case aluminium profiles by enable an angle of 90° to construct frame The fixing is made by screwing or riveting.

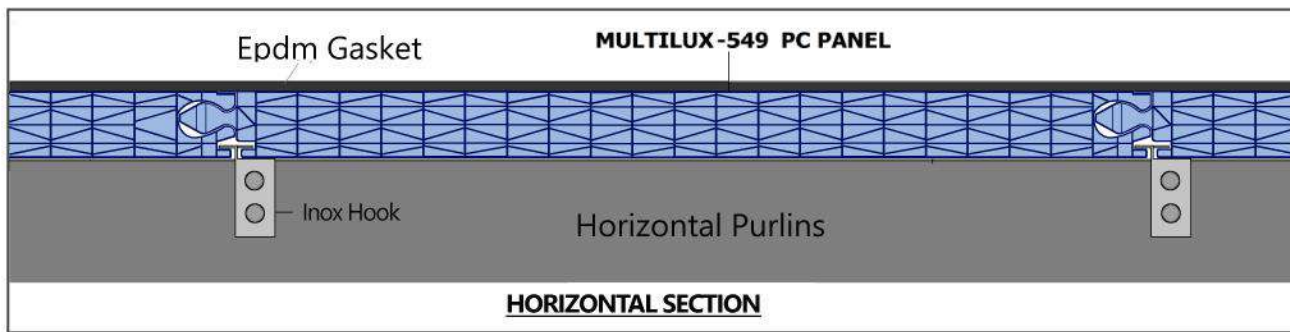


Al. Corner Connector-51055

Aluminium corner connectors anable an angle 90 to be constructed frame by fixing into cells of windows profiles with thermal break. Two pieces corner connectors are necessary for everyone corner .The fixing is made by screwing or pressing.

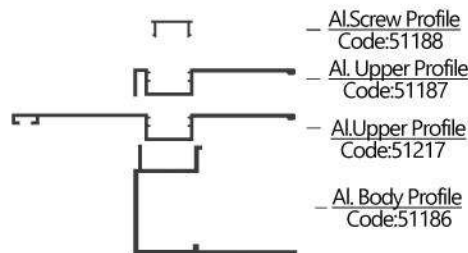
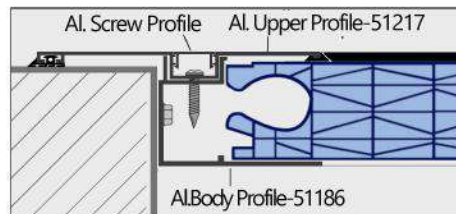
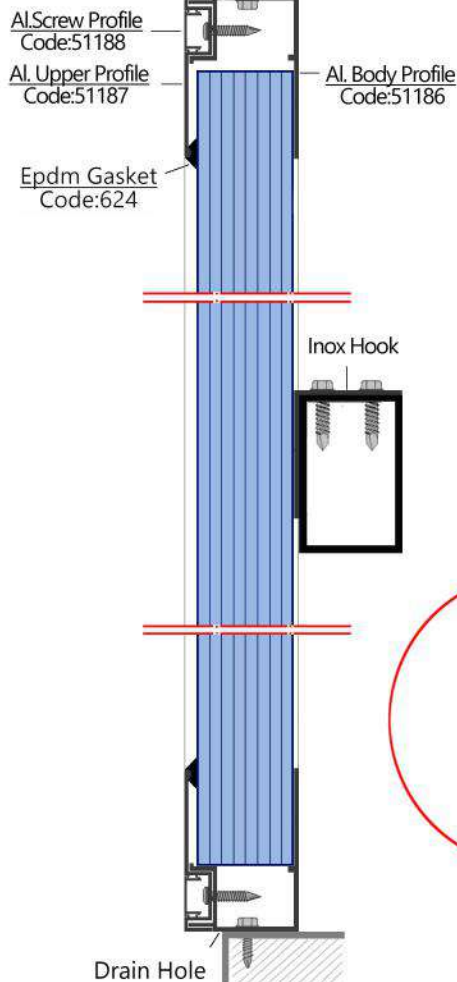
Al. Casement Profile
5105152

FRAME ALUMINIUM PROFILE SERIES AND INSTALLATION ACCESSORIES

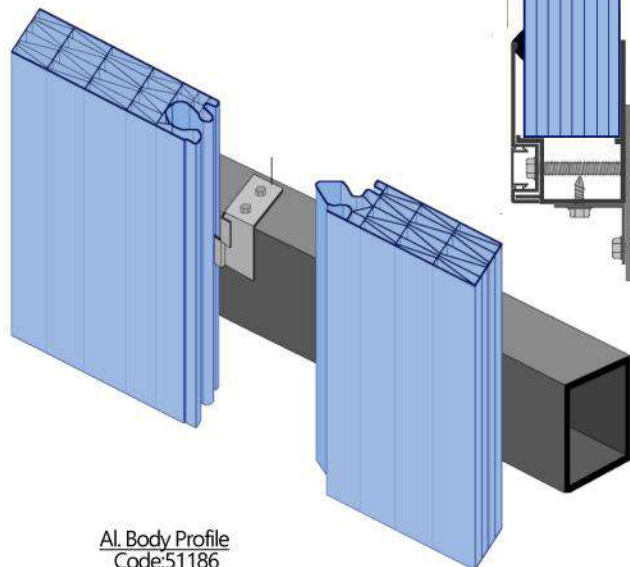
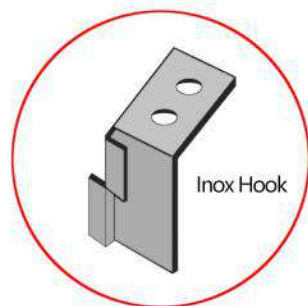
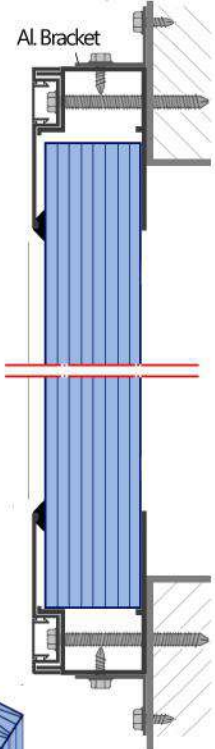


Installation Detail Under Beam

Cross Section

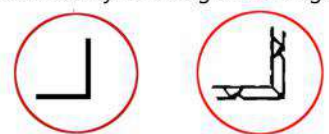


Installation Detail in front of Beam



Al. Bracket-50x50x1,5 mm

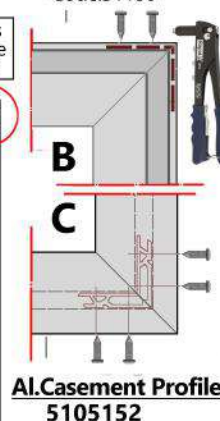
The aluminum brackets are installed into the case aluminium profiles by enabling an angle of 90° to construct the frame. The fixing is made by screwing or riveting.



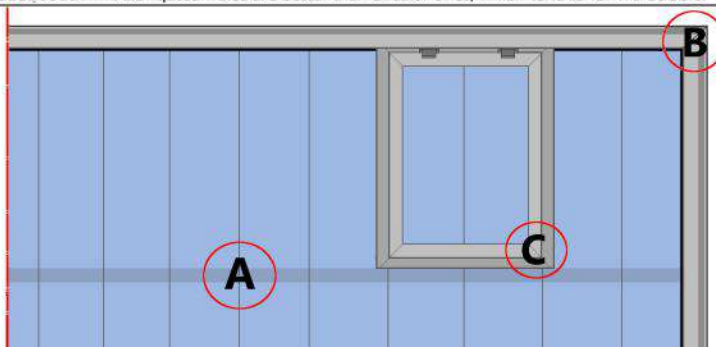
Al. Corner Connector-51055

Aluminium corner connectors enable an angle of 90° to be constructed by fixing into the cells of window profiles with thermal break. Two pieces of corner connectors are necessary for every corner. The fixing is made by screwing or pressing.

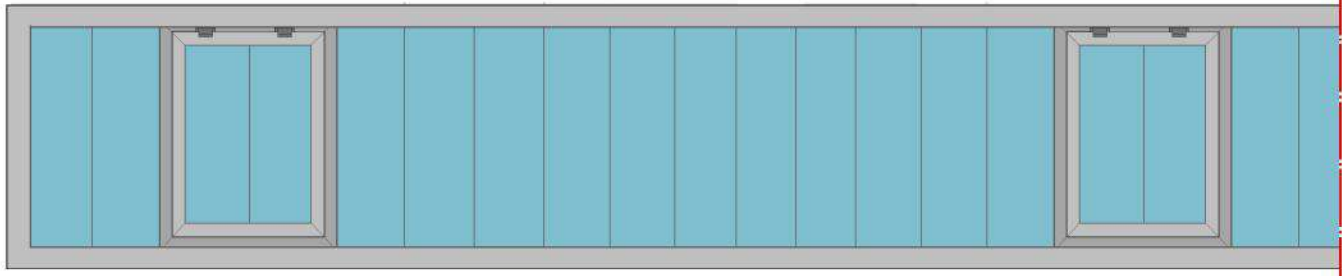
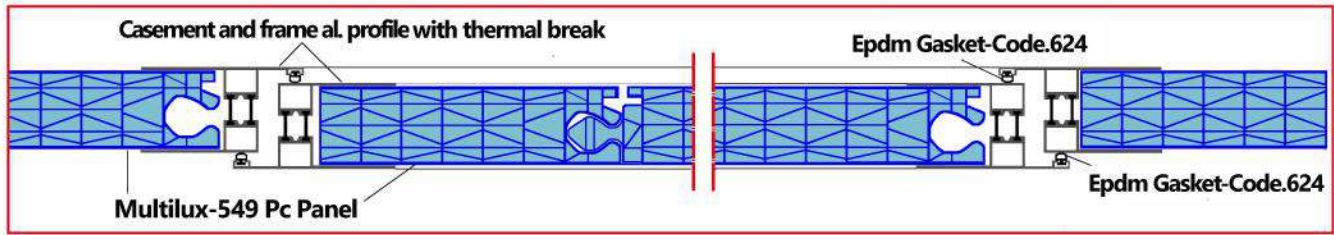
Al. Body Profile
Code: 51186



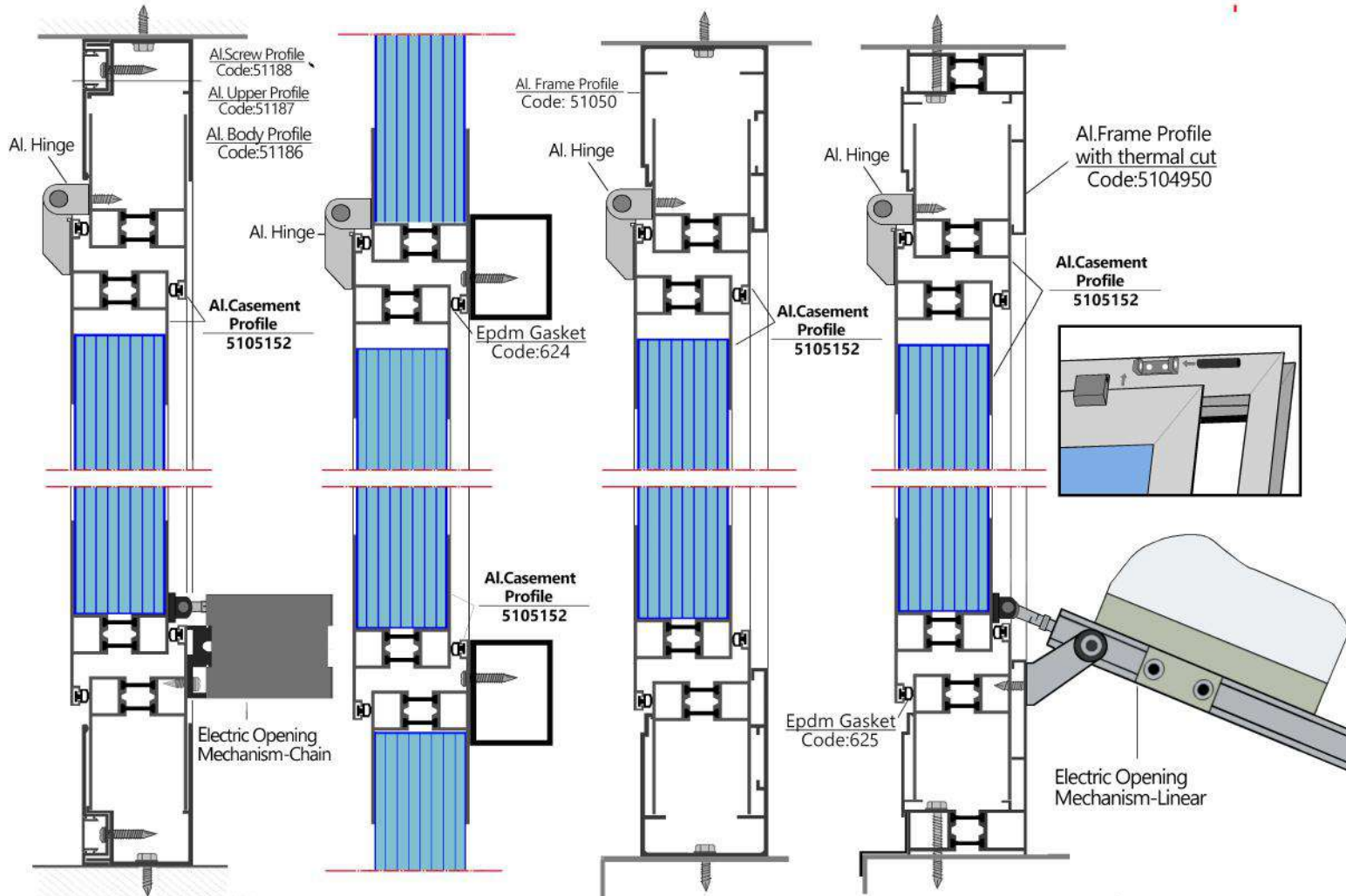
The lower aluminium profiles must be drilled with holes at the bottom to facilitate the egress of condensation or water which has penetrated. The distance between the centres should be about 500 mm. Elongated holes are better than circular ones, which tend to form a bubble.



OUTWARD OPENABLE WINDOW AND AUTOMATION SYSTEM



The window system is adapted easily and safely with Multilux pc panels because the aluminium frame of windows is compatible with the all frame aluminium profiles. Mechanisms of the opening are fixed on aluminium profiles to open towards outside.



Electric Opening Mechanism-Chain

Electric Opening Mechanism- Linear

Control Units

**Buton- Remote Control
Smoke -Rain- Smoke Sensors**