

# SWITCH-GLASS INSTALLATION MANUAL

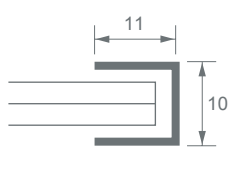
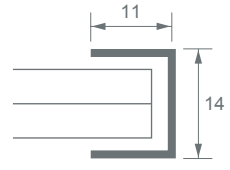

**Please read this instruction manual  
carefully before you start installation.**

**Note: installation requires qualified  
electrical work in addition to the regu-  
lar glass work.**

**INSTALLATION**

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**GLASS PRODUCTS:**

	Clear float glass 3mm	Clear float glass 5mm	Clear float glass 6mm	Polished wired glass 6.8mm
Clear float glass 3mm	Thickness : 6.5mm LUMP6	_____	_____	_____
Clear float glass 5mm	_____	Thickness : 10.5mm LUMP10	_____	Thickness : 12.3mm LUMP5PWU
Clear float glass 6mm	_____	_____	Thickness : 12.5mm LUMP12	_____
Tinted glass 3mm	Thickness : 6.5mm LUMBZPP6	_____	_____	_____
Tinted glass 5mm	_____	Thickness : 10.5mm LUMBZPP10	_____	_____
Tinted glass 6mm	_____	_____	Thickness : 12.5mm LUMBZPP12	_____
Heat reflective glass 6mm	_____	_____	Thickness : 12.5mm LUMCP6P6	_____
High performance heat reflective glass 6mm	_____	_____	Thickness : 12.5mm LUMRSP6P6	_____
Combination	3mm+3mm	5mm+5mm	6mm+ 6mm , 5mm+ 6.8mm	
Dimensions of edge protector (mm)				

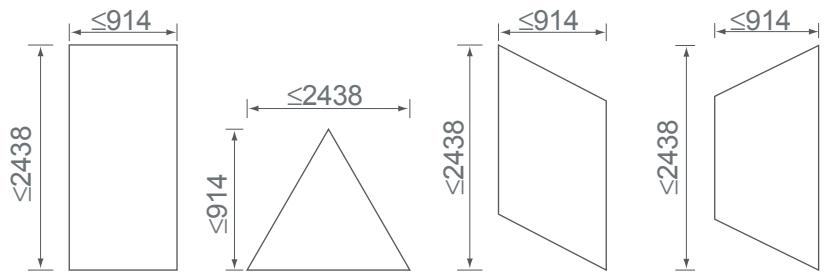
**INSTALLATION**

For maximum sizes, please refer to page 2.

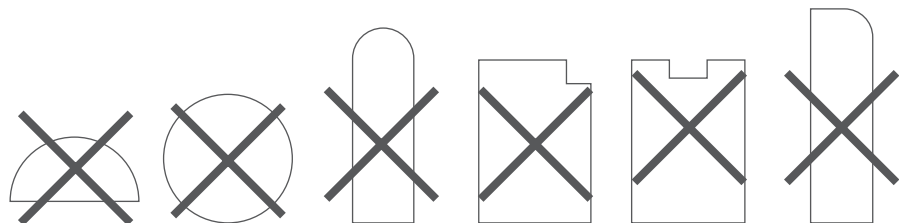
Note: combination of tinted and reflective glass not available.

**AVAILABLE SHAPES**

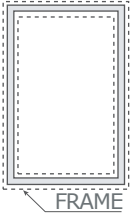
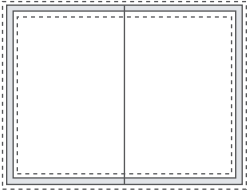

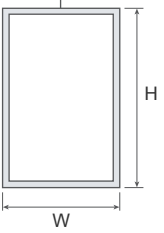
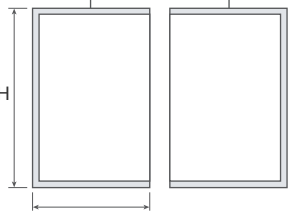
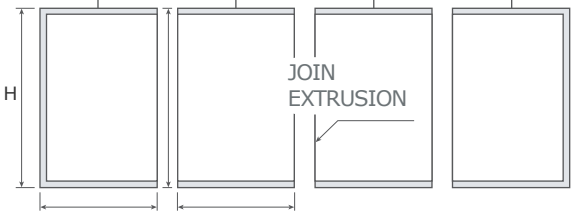
Flat surfaces only.



**NOT AVAILABLE SHAPES**



Please choose one of the following configurations, according to your specific installation requirements.

	Single panel per frame	Double panel per frame (interior use)	Multiple panels per frame (interior use)
GLAZING TYPE			
EDGE PROTECTION	<p>POWER SUPPLY LINES 1m LG. (x2/panel)</p> 	<p>POWER SUPPLY LINES 1m LG. (x2/panel)</p>  <p>EACH PANEL MUST HAVE ALL EDGES PROTECTED</p>	<p>POWER SUPPLY LINES 1m LG. (x2/panel)</p>  <p>EACH PANEL MUST HAVE ALL EDGES PROTECTED</p>

**Note: When placing the order please specify "interior use" or "exterior use". When high humidity levels are expected, specify "exterior use" even for panels destined for interior applications.**

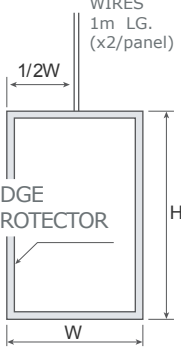
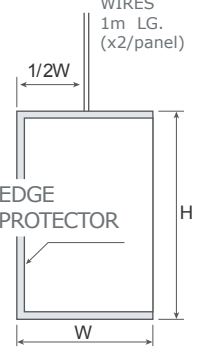
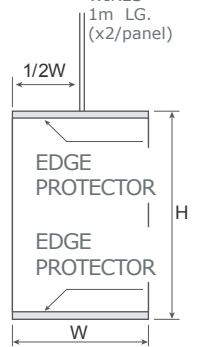
**Acetic acid-type silicone caulking must not be used for installation !**

**EDGE PROTECTORS**

Follow the diagram attached for all dimensions required to order the edge protectors.

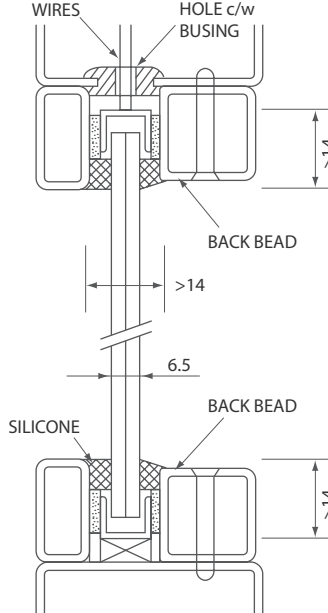
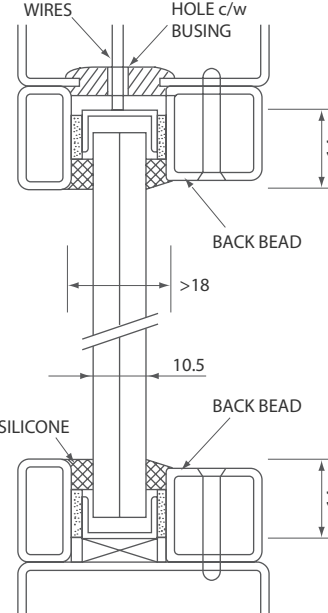
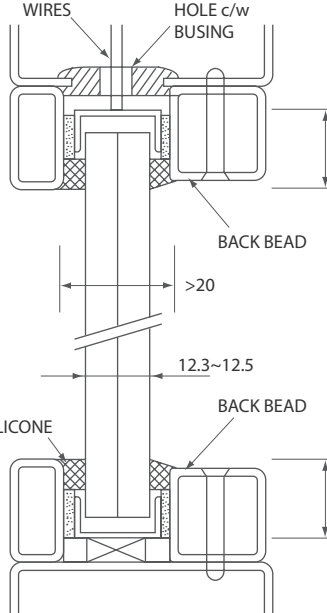
**POWER SUPPLY LINES**

Each panel comes with a standard 1m LG. 150mA/110VAC cables installed along the top edge.

4 SIDES PROTECTION	3 SIDES PROTECTION	2 SIDES PROTECTION
<p>WIRES 1m LG. (x2/panel)</p> 	<p>WIRES 1m LG. (x2/panel)</p> 	<p>WIRES 1m LG. (x2/panel)</p> 
INTERIOR AND EXTERIOR USE	INTERIOR USE ONLY (NO DIRECT EXPOSURE TO WATER OR HIGH HUMIDITY)	
MAX. SIZE W x H (mm): 1,450 x 3,050	MAX. SIZE W x H (mm): 1,450 x 3,050	MAX. SIZE W x H (mm): 1,450 x 3,050

Please select one of the following framing configurations based on your application.

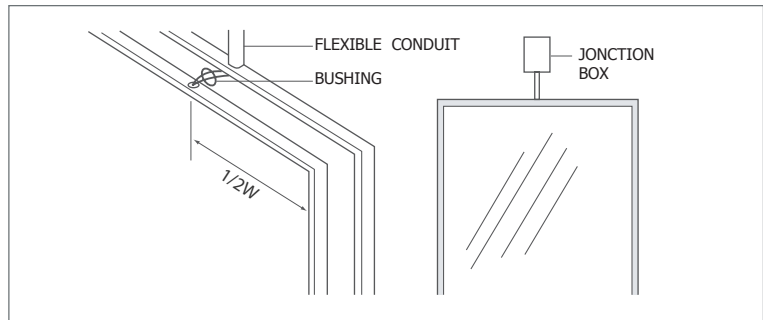
**STANDARD OUTDOOR FRAMING:**

GLASS LAYER THK.	3mm + 3mm	5mm + 5mm	6mm + 6mm , 5mm + 6.8mm
STANDARD DIMENSIONS (mm)			

**INSTALLATION**

**BUSHINGS:**

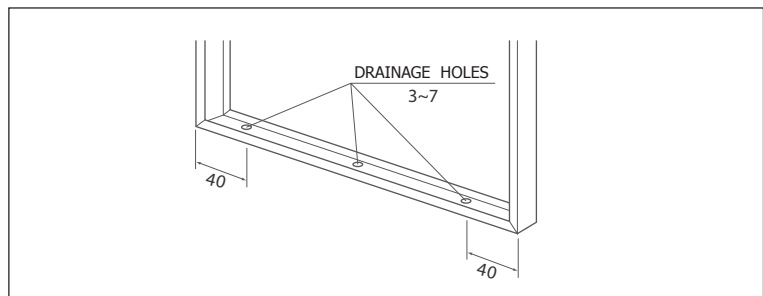
Drill or cut a hole large enough to install a protective plastic or rubber bushing for the wires to go through.



**Warning: not installing rubber bushings can cause a shock hazard.**

**DRAINAGE HOLES:**

For all exterior applications, depending on the width of the panel, cut 3-7 (based on width) drainage holes at the bottom of each panel.



**JOINT BARS:**

For butt joint connections, specially designed transparent plastic joint bars shall be installed between the panels.

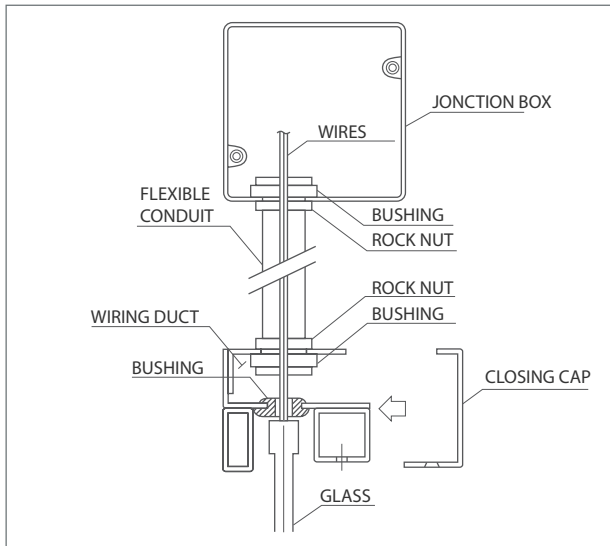
**Airtightness: CLASS2 JIS AI516**

**Note: use for indoor applications only.**

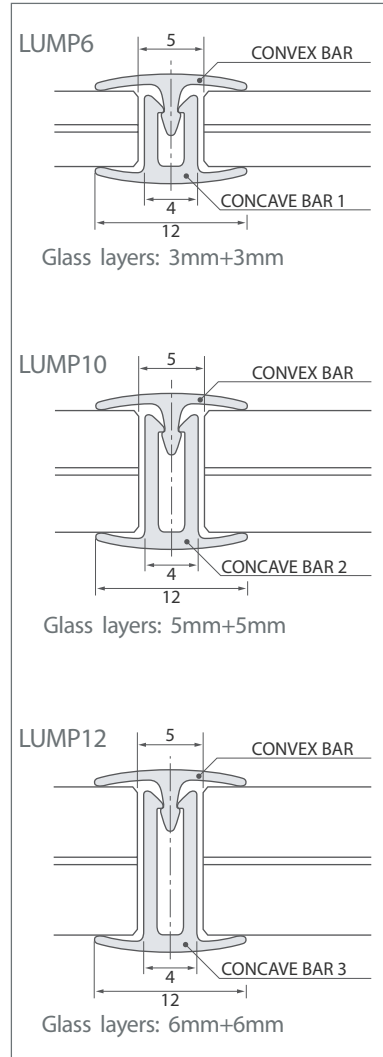
**JOINT BARS APPLICATION:**

1. Install temporarily the glass panels inside the outer frame.
2. Set the vertical gap between panels at 5mm.
3. Cut the joint bar approx. 1-2mm longer than the measured length.
4. Install the concave bar between panels.
5. Snap in place and secure the convex bar.
6. Press each panels together inside the joint bar for a tight fit.
7. Secure the panels inside the frame and apply all seals.

**PRELIMINARY WIRING:**



**JOINT BAR ARRANGEMENTS**



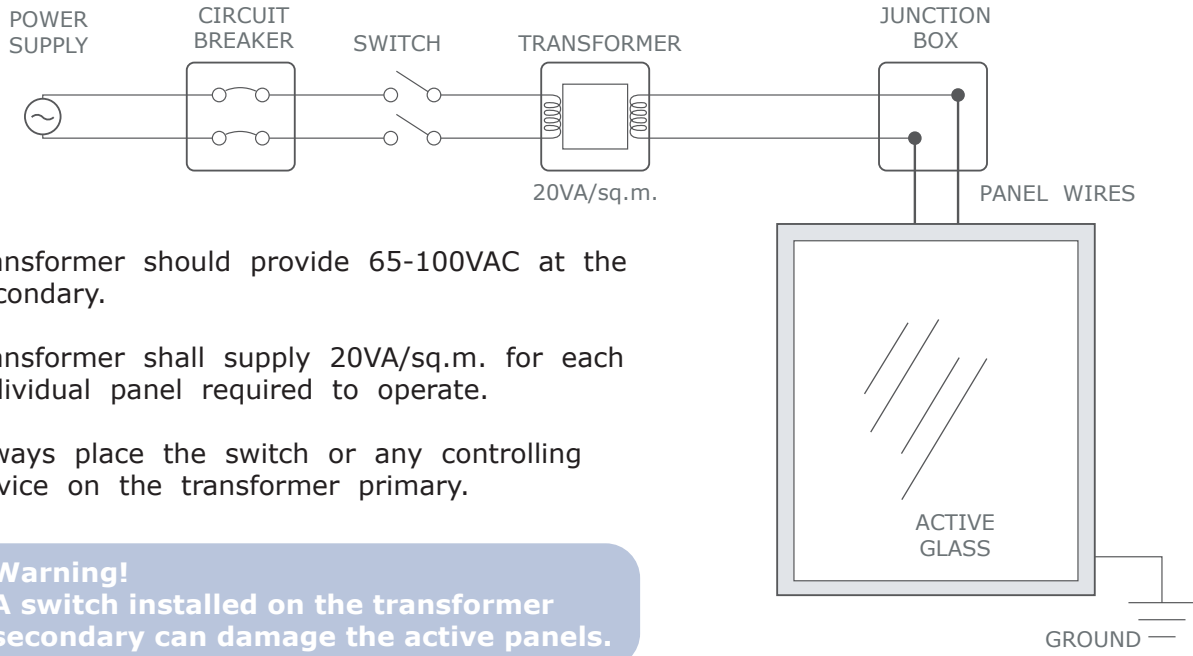
Attached diagram describes the main components for preliminary wiring of a single or multiple panels.

Alternative components can be used as approved by a certified electrician and a qualified glass installer.

**ELECTRICAL WIRING:**

Panels must be powered at a voltage between 65VAC and 100VAC.  
Note that transparency increases with the voltage.  
Any voltage below 65VAC would not turn ON the panels.

**Note: electrical wiring must be performed by a certified electrician.**



Transformer should provide 65-100VAC at the secondary.

Transformer shall supply 20VA/sq.m. for each individual panel required to operate.

Always place the switch or any controlling device on the transformer primary.

**Warning!**  
A switch installed on the transformer secondary can damage the active panels.

Circuit breaker should be sized and installed according to local electrical codes.

Circuit breaker must be installed anytime the active panels may be exposed to water or high humidity levels (i.e. outdoor installation, near bathrooms or kitchens).

When active glass is encased within an electrically conductive material, the frame must be connected to the ground.

**NOTE:**  
This configuration allows the remote control of panels using: timers, sensors, PLCs, etc.

Refer to the diagram below for the independent operation of single or multiple glass panels.

