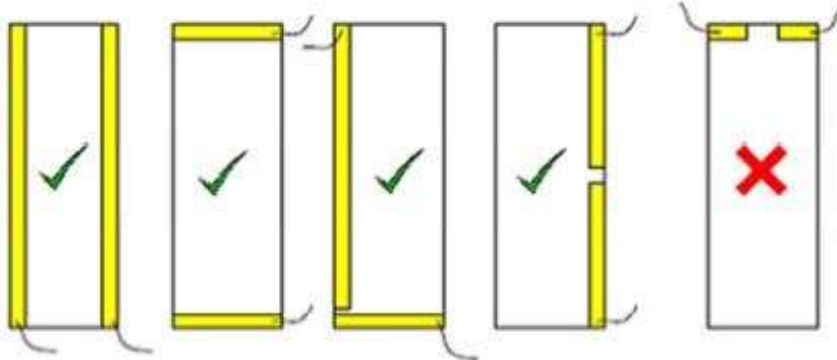


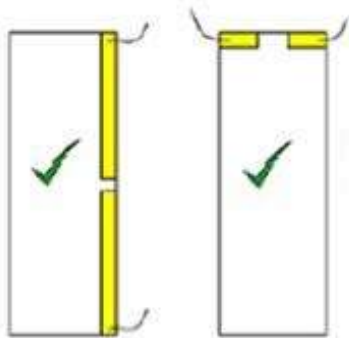
Switchable Smart Glass

BUSBARS POSITION



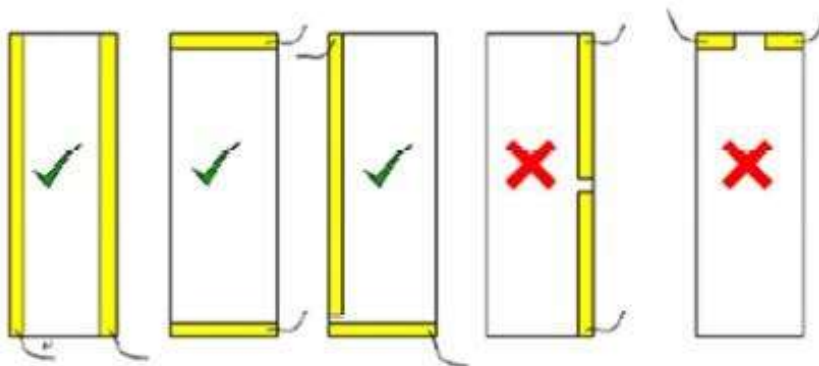
Where the size ratio is over 1:3 (e.g. 500mm x 1500mm)

- Busbar **MUST NOT** be applied along one shorter edge only.
- Busbar can be applied along one long edge only, or on any two edges.



Where the size ratio is under 1:3 (e.g. 800mm x 2100mm)

- Busbar can be along any one edge.



In the case of our maximum size 1800 x 3600mm

- Two busbars **MUST** be applied.
- The two busbars can be on any two edges

CAUTION READ THIS TECHNICAL MANUAL BEFORE PROCEEDING!

Switchable Smart Glass

BUSBAR AND WIRE INSTALLATION

This handling is required for customers who buy the switchable film in full roll

Tools & Materials Required

- Special knife
- Silver paste
- Busbar copper foil
- Brush
- Wipe
- Wire
- Adhesive tape
- Nitrile gloves
- 99% isopropyl alcohol
- Solder
- Dryer



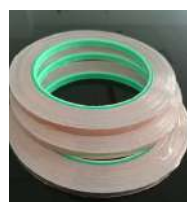
Special knife



Solder



Wipe



Busbar copper foil



5mm tape



Brush



Wire



Isopropyl alcohol



Nitril gloves



Silver paste



Dryer

**CAUTION READ THIS TECHNICAL
MANUAL BEFORE PROCEEDING!**

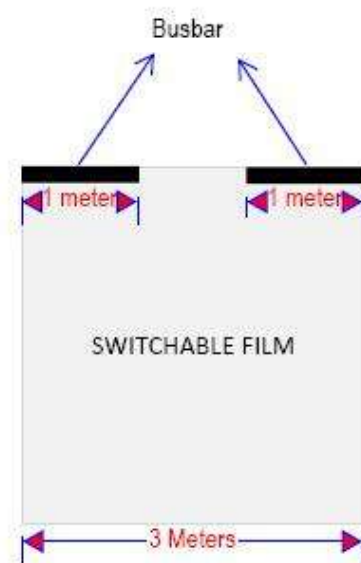
Switchable Smart Glass

BUSBAR AND WIRE INSTALLATION

This handling is required for customers who buy the switchable film in full roll

Procedures

- Step 1 - Cut the switchable film into order sizes. (cut by laser cutting machine)
- Step 2 - Calculate the length of the busbar. Generally, make one busbar length to be one-thirds of busbar installed side length. For example, the busbar installed side length is 3 meters, busbar length should be 1 meter, and two busbars are installed on the same side.



- Step 3 - Peel the PDLC film with a special knife from the middle of the film, Cut the first layer of ITO film, turn around the film and cut the first layer of ITO film. (Please also refer to manufacturer provided sample)



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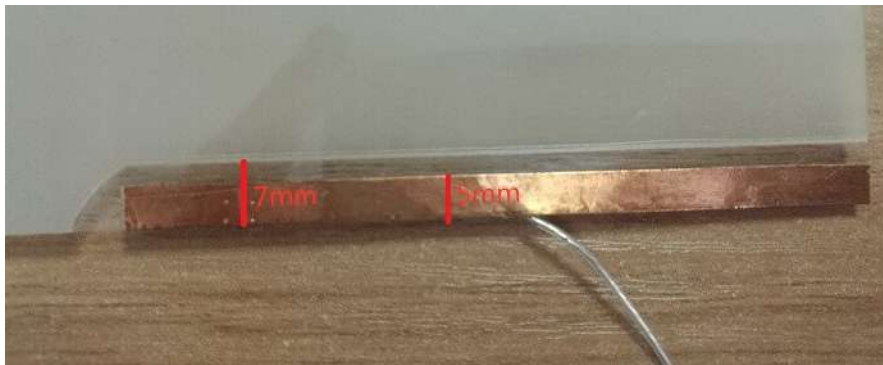
Switchable Smart Glass

BUSBAR AND WIRE INSTALLATION

This handling is required for customers who buy the switchable film in full roll

Procedures

- Step 4 - Make busbar cutting height:7mm (Busbar copper foil height 5mm)



- Step 5 - Wipe the busbar cutting position with 99% isopropyl alcohol until the film is completely clear.



- Step 6 - Apply the silver paste in busbar position with a brush.



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Switchable Smart Glass

BUSBAR AND WIRE INSTALLATION

This handling is required for customers who buy the switchable film in full roll

Procedures

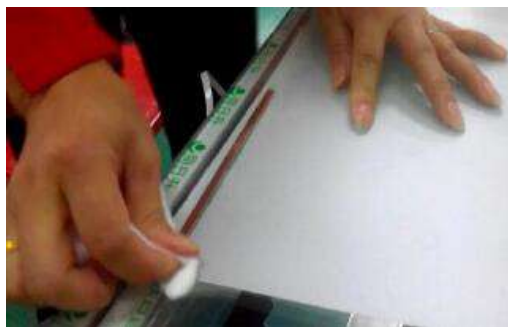
- Step 7 - Dry the silver paste with dryer.



Step 8 - Stick copper foil onto silver paste.



- Step 9 - Clean the silver paste outside of the copper foil



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Switchable Smart Glass

BUSBAR AND WIRE INSTALLATION

This handling is required for customers who buy the switchable film in full roll

Procedures

- Step 10 - Solder the wire on copper foil.



- Step 11- Busbar wire installation is finished, test film with connection to transformer.



- Step 12 - Finished. Congratulations!

**CAUTION READ THIS TECHNICAL
MANUAL BEFORE PROCEEDING!**