



FAÇADE APPLICATION

CLEAR Lighting Solution



FACADE APPLICATION CHALLENGE



FACADE LIGHTING SOLUTION

- + Product Selection
- + Installation Tips
- + Valuable experience on site



**FAÇADE APPLICATION
CHALLENGE**

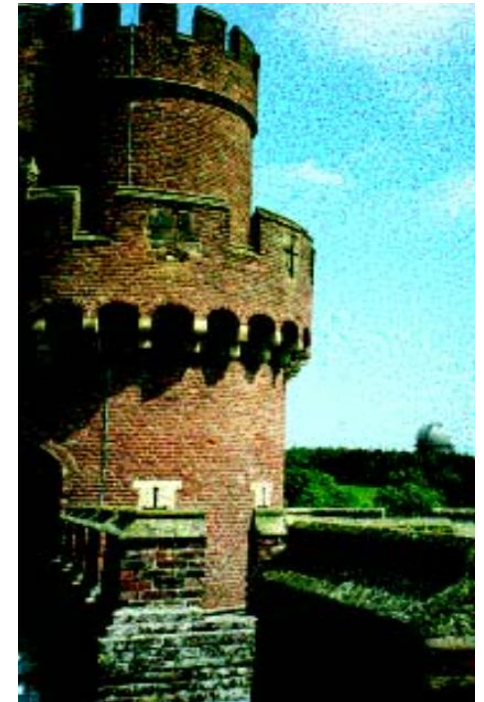


FAÇADE APPLICATION CHALLENGE

Challenge 1

Structural movement

Subsidence, settlement, heave, sway, bouncy floors, bulging walls, cracks, expansion and contraction are all forms of structural movement.



Herstmonceux Castle (1440). The machicolated battlements were last rebuilt in c1932 and are now leaning again. Curved walls are particularly prone to leaning outwards at their tops due to cyclical thermal and moisture movement leading to creep distortion of the masonry.



FAÇADE APPLICATION CHALLENGE

Challenge 2

Work high above the ground

- Hard to install and maintain.
- High cost





FAÇADE APPLICATION CHALLENGE

Challenge 3

**Hard to monitor the
proper installation**

Architect,
Consultant,
Lighting designer,
Importer,
Distributor,
Electrical contractor...

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FAÇADE APPLICATION CHALLENGE

Challenge 4

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Harsh weather

Direct High UV,

Rainy Day,

High Temp,

Low Temp,

Wind...





So
When you choose a product for facade

YOU NEED TO FIGURE OUT

Weather resistance

Waterproof function

Product mechanical strength

Bending direction

Lighting effect

...





FAÇADE LIGHTING SOLUTION

+ Product Selection



FAÇADE LIGHTING SOLUTION

Product selection-Light

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1. Silicone material is priority

	PU	PVC	Silicone
UV resistance	Good	Better	Best 👍
Temperature	-25°C to 40°C	-20°C to 45°C	-40°C to 55°C 👍
Flame resistance	Best 👍	Good	Better
Mechanical strength	Poor	Good	Excellent 👍



FAÇADE LIGHTING SOLUTION

Product selection-Light

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2. Larger product size is recommended

(Mechanical strength: the stronger, the better)

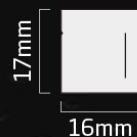
FlexGlo™ F15



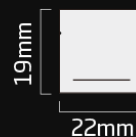
FlexGlo™ F21



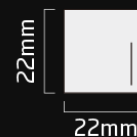
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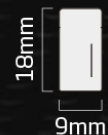
FlexGlo™ F2219



FlexGlo™ F2222



FlexGlo™ F10



FlexGlo™ F23



FlexGlo™ F1212



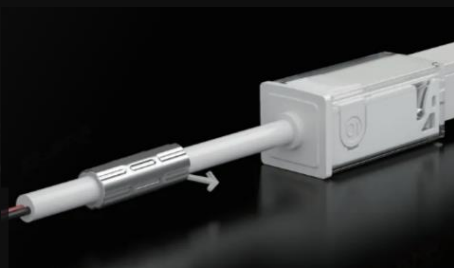


FAÇADE LIGHTING SOLUTION

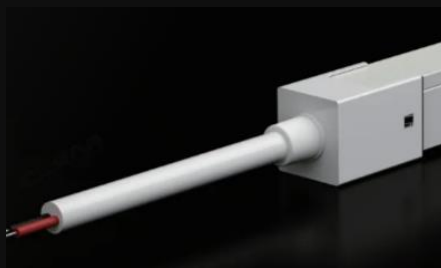
Product selection-Light

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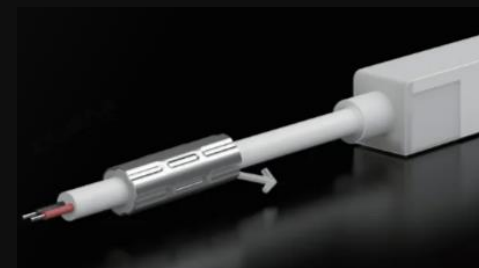
3. Injection connector recommended



Snap connector



Socket connector



Injection connector

Side or bottom entry is recommended for achieving a seamless connection





FAÇADE LIGHTING SOLUTION

Product selection-Light

4.

For straight-line installations,
select

Vertical Bending Products |

5.

SHORTER light length

is better,

recommendation

is not to exceed 7m/pc |

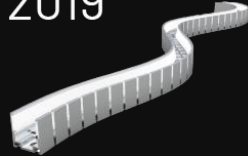
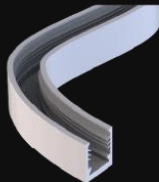


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Product selection-Light

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6. Profile selection

	2009  Thicken plastic profile	2011  Standard aluminum profile	2019  Serrated aluminum profile	2019  Bendable serrated aluminum profile	New  Anole profile
					
					
					
					



FAÇADE LIGHTING SOLUTION

+ Installation Tips



FAÇADE LIGHTING SOLUTION

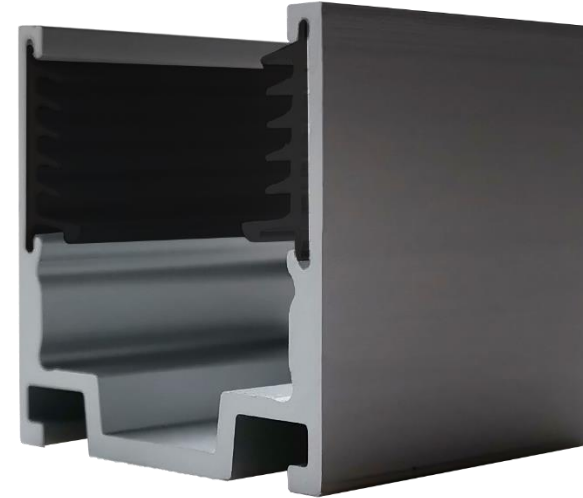
Installation Tips -Mounting profile

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Profile Cutting

Ensure the profile's cross-section is smooth and burr-free after cutting.

Profile length:
20mm, 500mm, 1000mm, 2000mm





FAÇADE LIGHTING SOLUTION

Installation Tips -Mounting profile

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Profile Jointing



The seam between two pieces of profiles should be around 5mm for contraction and expansion (except the anole profile)

Two pieces of profiles should be in horizontal and vertical alignment.



Angular
Misalignment



Parallel Horizontal
Misalignment



Parallel Vertical
Misalignment



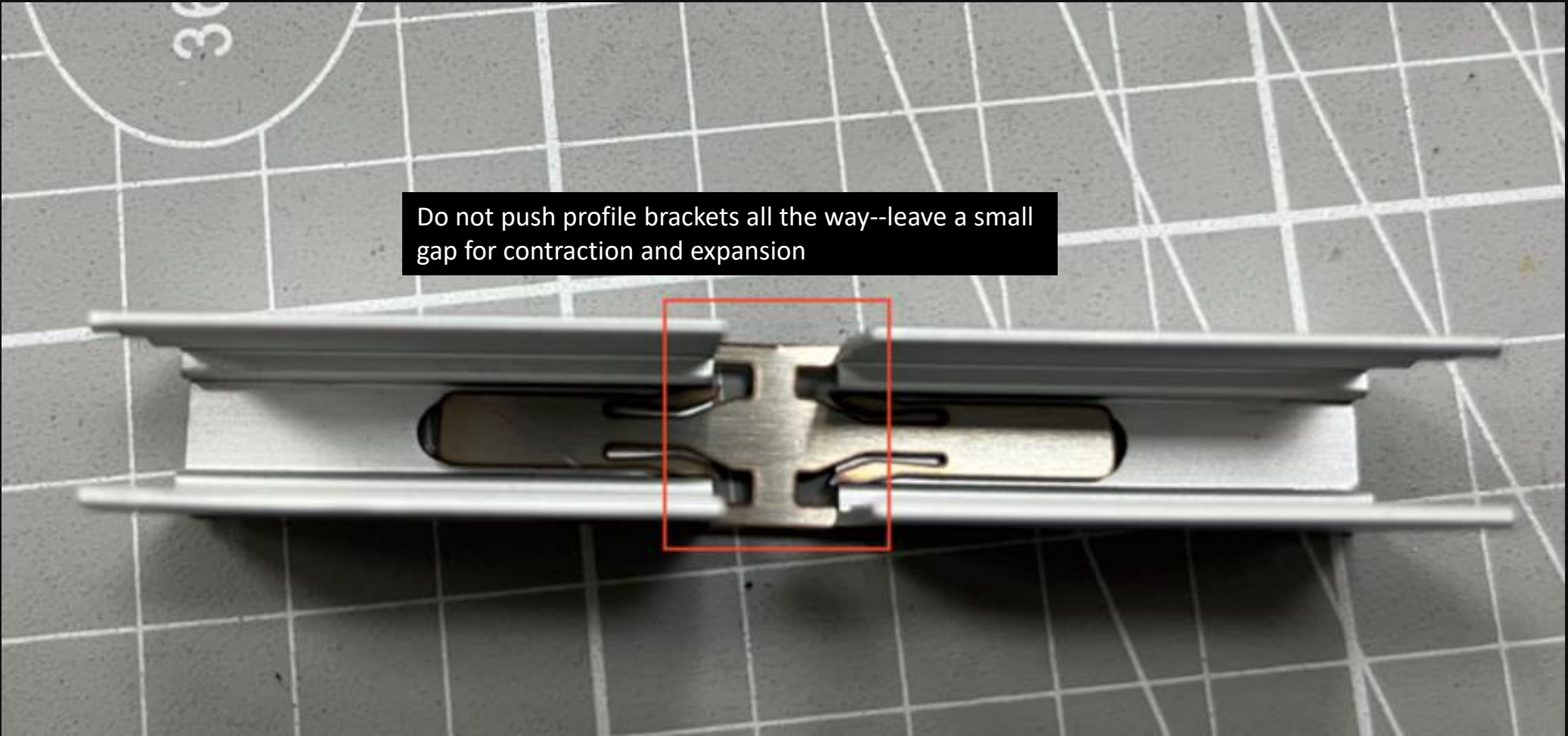
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Installation Tips -Mounting profile

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Profile Joint bracket

Do not push profile brackets all the way--leave a small gap for contraction and expansion



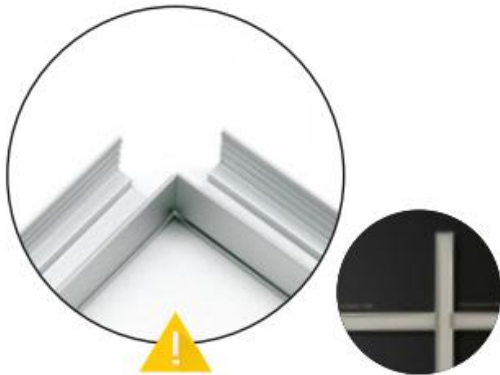


FAÇADE LIGHTING SOLUTION

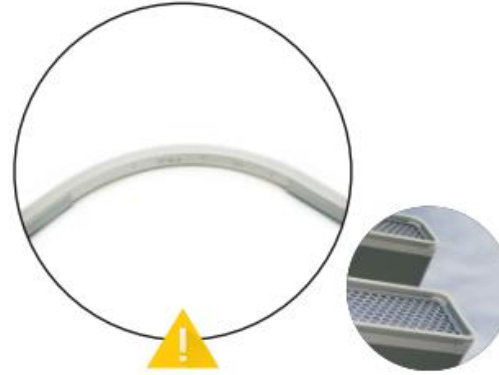
Installation Tips -Mounting profile

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Profile Jointing



The profiles can be joint to a right angle only if there are two pieces of lights connected to be a right angle.



When there is only one piece of light installed around the corner, make sure the profile leave enough space to adapt to minimum bending diameter.

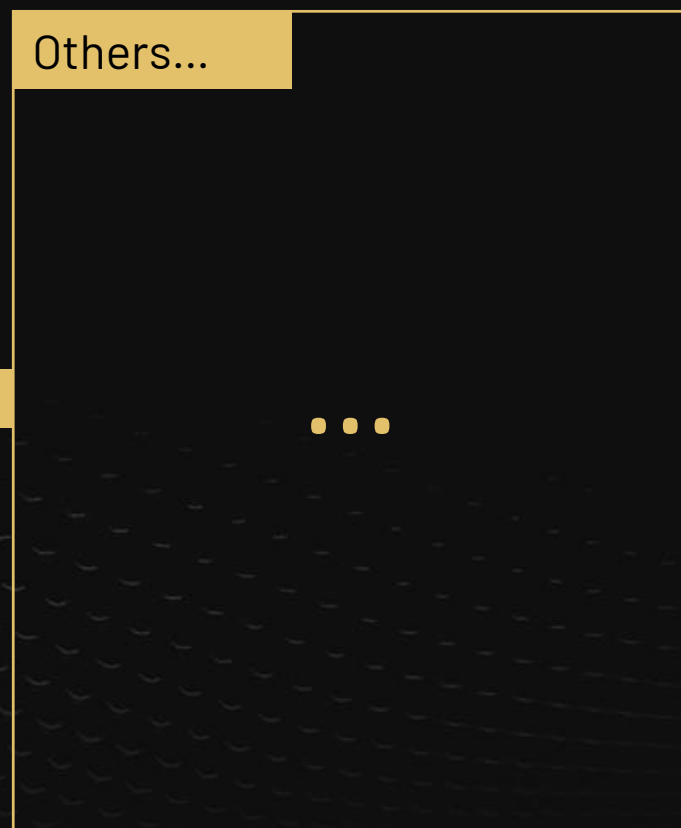


FAÇADE LIGHTING SOLUTION

Installation Tips -Mounting profile

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Profile Jointing Pay attention to the joint on the facade.





FAÇADE LIGHTING SOLUTION

Installation Tips -Mounting profile

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Profile Jointing

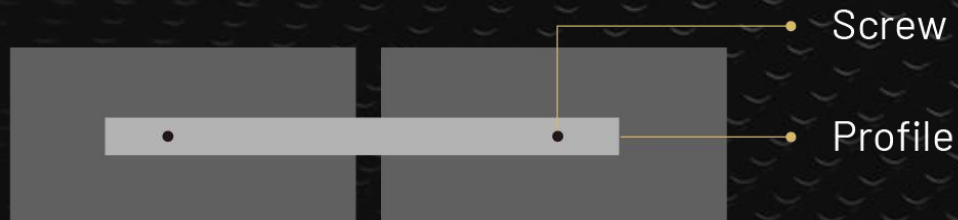
Solution 1:

Ensure the mounting profile extends across the seam to protect the light,



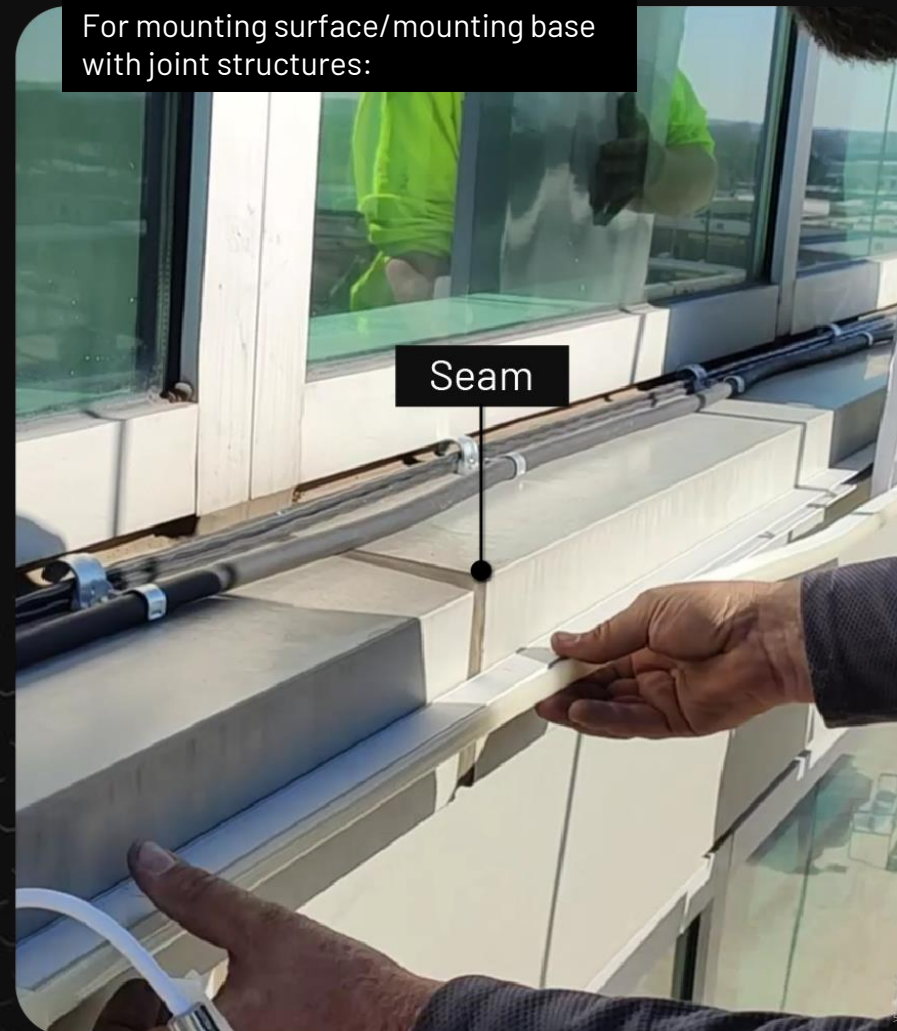
Side View

Secure screws on both sides of the seam for added reliability



Top View

For mounting surface/mounting base with joint structures:





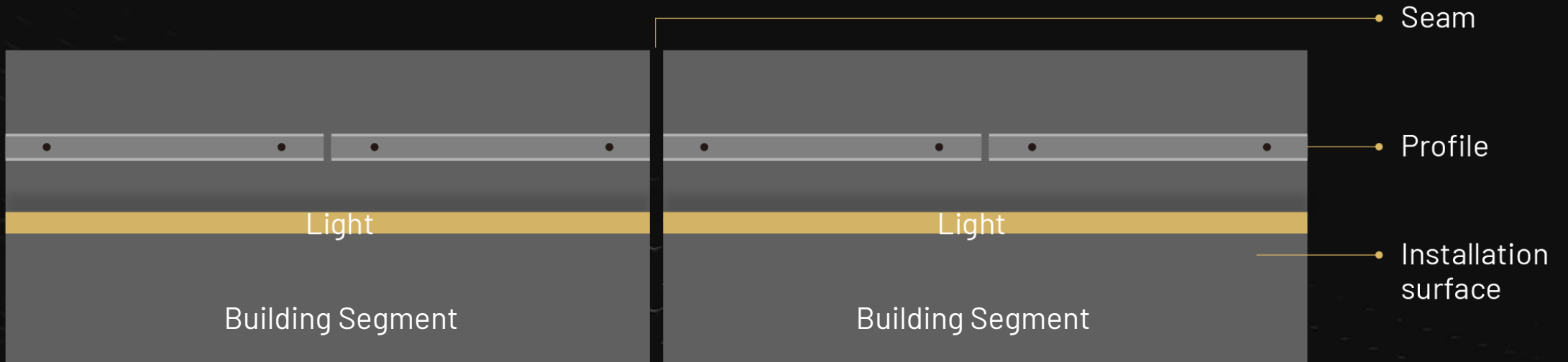
FAÇADE LIGHTING SOLUTION

Installation Tips -Mounting profile

Profile Jointing

Solution 2:

Match the light length to each segment.



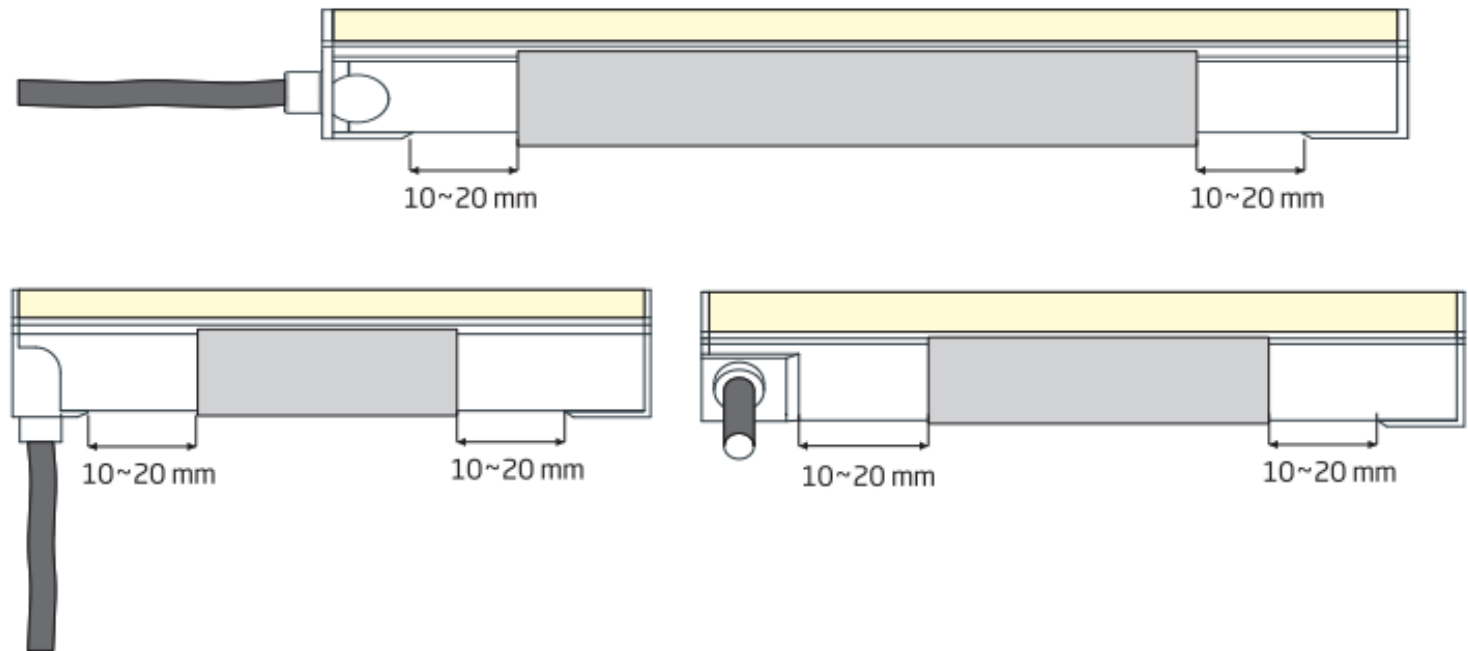
Top View



FAÇADE LIGHTING SOLUTION

Installation Tips -Flex Linear Lights with Profile

Leave 10-20mm space between the end of the profile and connectors to allow for expansion and contraction.





FAÇADE LIGHTING SOLUTION

Installation Tips -Flex Linear Lights

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Temporary placement of products

Use support frames when installing long length of light to prevent the light from overbending or twisting.

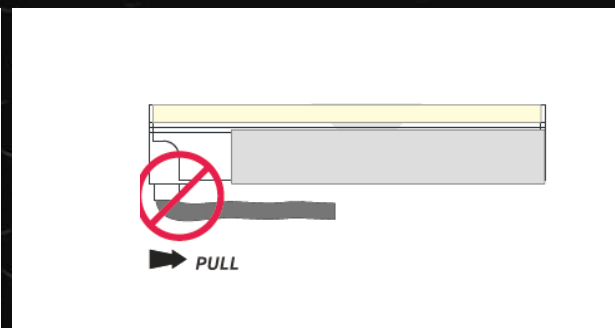
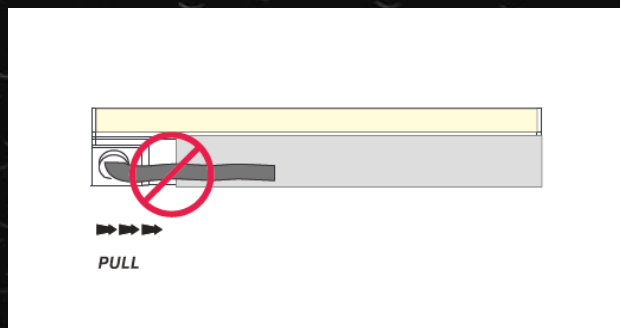
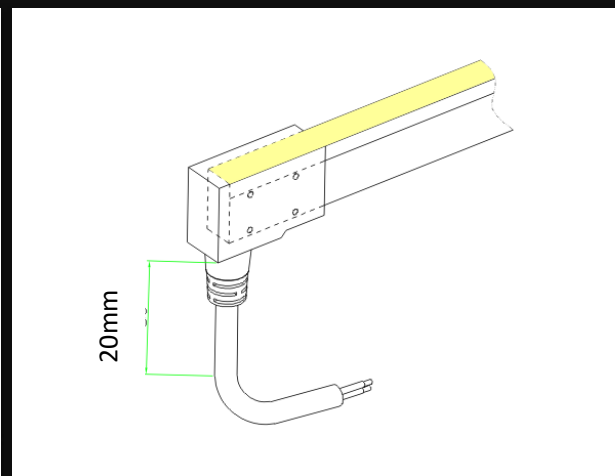
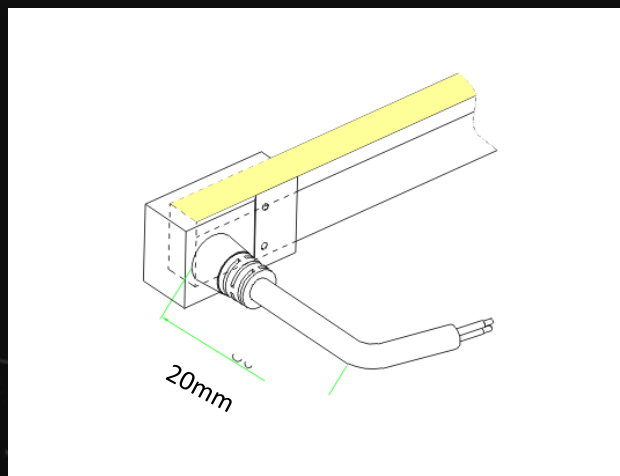
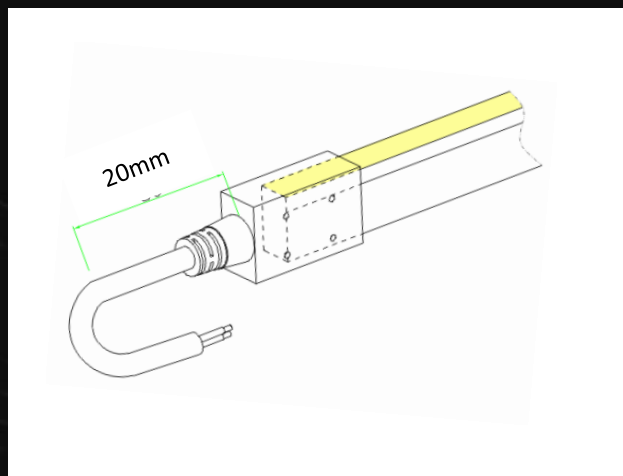




FAÇADE LIGHTING SOLUTION

Installation Tips -Connector

Ensure cables are installed without unnecessary tension to prevent injection detach or wear.





FACADE LIGHTING SOLUTION

Installation Tips -Waterproof treatment

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Use appropriate waterproof boxes and connectors to ensure the durability of the lighting unit in outdoor environments.



Male and Female Connector(IP67)



Waterproof box



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Installation Tips -Others

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Pressing Light Units into Place

Always press the light into the mounting channel using the palm of your hand, not your fingers, to prevent damage to the internal PCB.

Avoid Excessive Angles

Maintain an installation angle below 15° to ensure the safety of internal components.



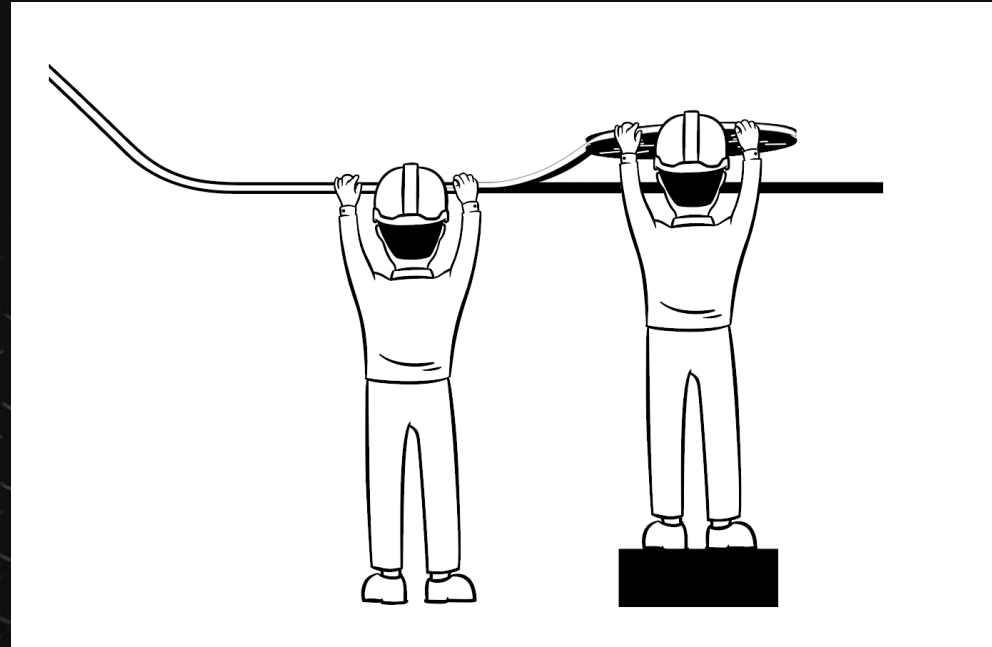
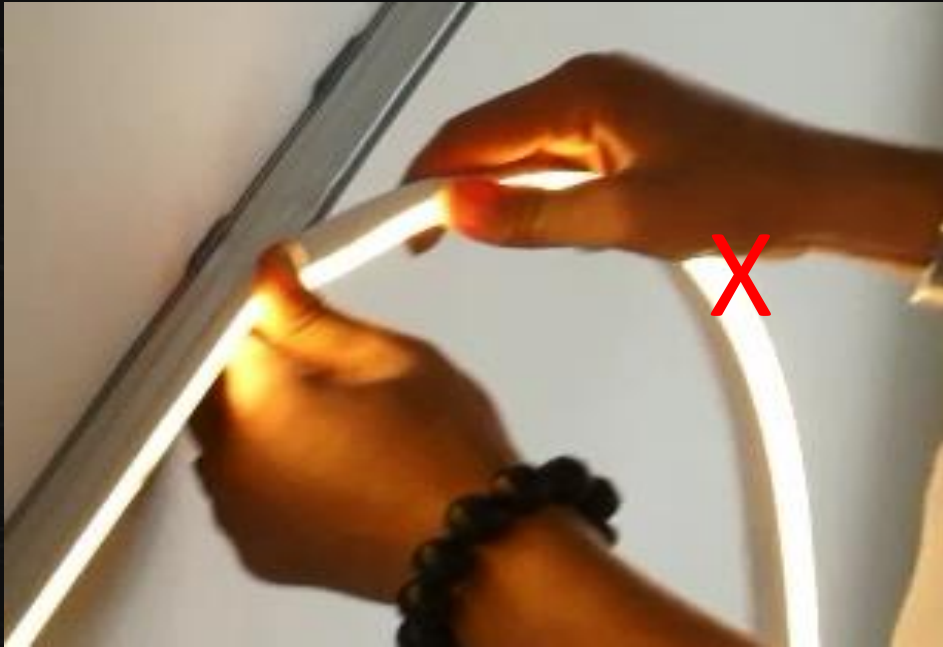
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Installation Tips -Others

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Lift Heavy Sections with Assistance

For light sections longer than 2 meters, have an assistant lift to prevent damage due to excess bending or twisting.







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Installation Tips -Others

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Reinstallation Guidelines

Repeated installation is discouraged due to potential damage during removal. If reinstallation is necessary, carefully follow specific guidelines.







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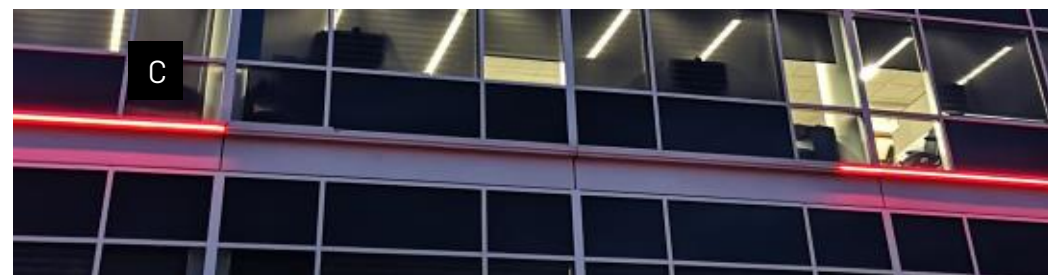
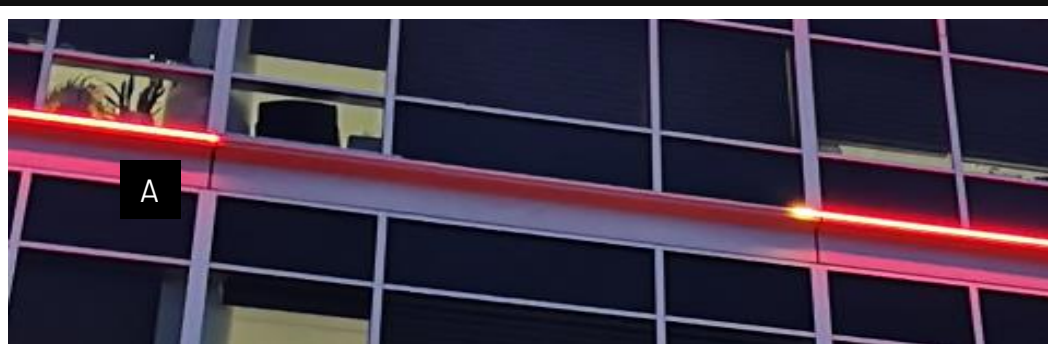
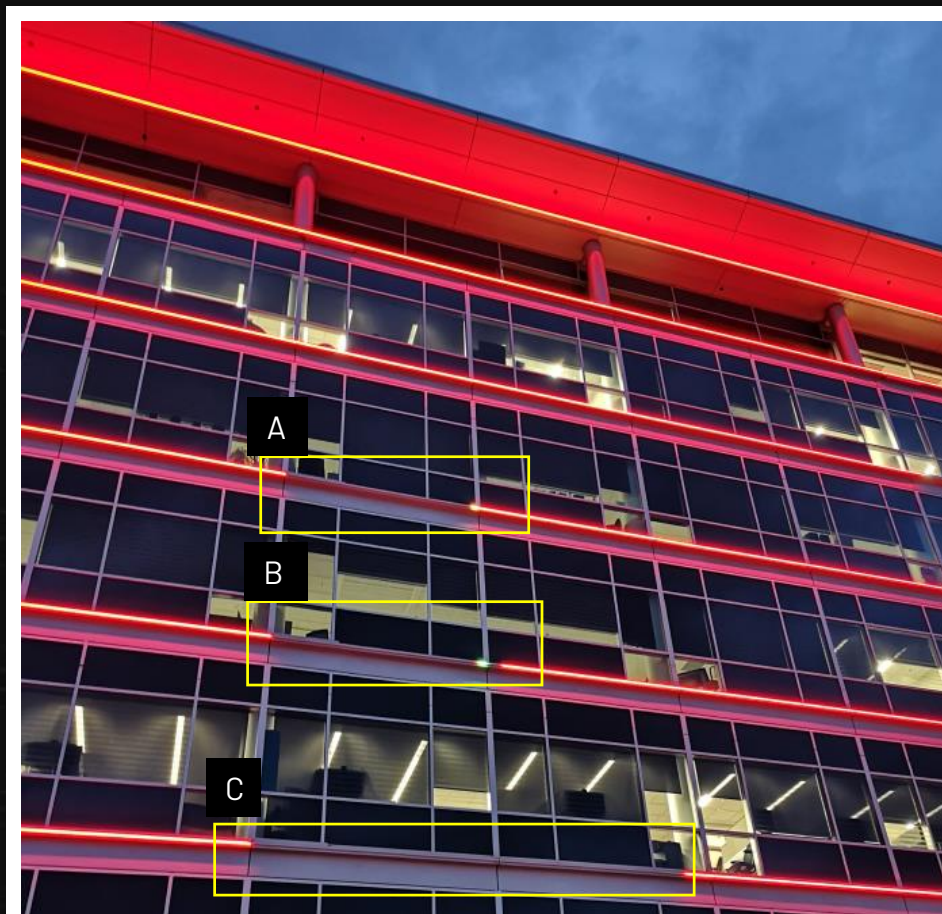
+ Valuable experience on site



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Country: America | Product: PVC F21



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Mounting Surface

Profile

Light



Q&A session