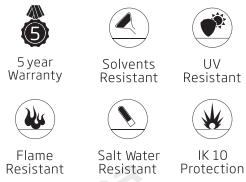


# Flexglo™ F22E RGBW Light (Silicone)



|                           |                  |                   |
|---------------------------|------------------|-------------------|
| Certification Mark        |                  | CE                |
| Test Standard/Directive   | UL2108 Class 2   | CE-EMC            |
| Certificate Serial Number | 20180801-E360029 | SZEM1712012372LMV |
| Report Reference          | E360029-20130322 | SZEM171201237201  |

Ambient Working Temperature  $\leq 15W$  -40 ~ 45°C / -40 ~ 113°F

Ambient Working Temperature  $\leq 12W$   $\geq -40^{\circ}C$  / -40°F

Storage Temperature -40 ~ 60°C / -40 ~ 140°F

Max. Mounting Surface Temperature 85°C / 185°F

Ambient Installation Temperature -40 ~ 50°C / -40 ~ 122°F

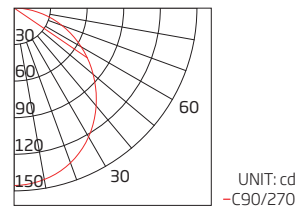
Constant Voltage DC24V

specified in the non-working state of light.

## C-SFR-F22E-VB



C-SFR-F22E-VB-24CV-RGBW(27K)-WM-84-80-15W-83.3



AVERAGE BEAM ANGLE (50%): 113.6°

Min. Bending Diameter 300mm/11.81in

Min. Cutting Length 83.3mm/3.28in 7LEDs

16mm/0.63in  
17mm/0.67in

LIGHT SURFACE  
Vertical Bending

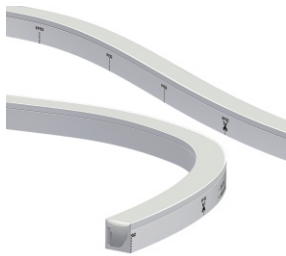
Bending-extreme 8902 times

Tensile-instantaneous >100 kg.f

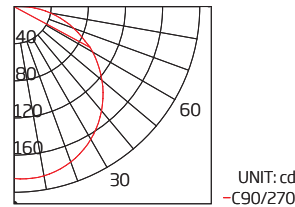
Twist-extreme 5433 times

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

## C-SFR-F22E-HB



C-SFR-F22E-HB-24CV-RGBW(30K)-WM-84-15W-100-RGBW



AVERAGE BEAM ANGLE(50%):113.7

Min. Bending Diameter 300mm/11.81in

Min. Cutting Length 83.3mm/3.28in 7LEDs

16mm/0.63in  
17mm/0.67in

LIGHT SURFACE  
Horizontal Bending

Bending-extreme 2234 times

Tensile-instantaneous >100 kg.f

Twist-extreme 6760 times

Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice.

Note:

1. The illuminated light length shall be an integral multiple of min. cutting length.
2. The waterproof reliability of the lighting fixture depends on the IP rating of connector, and please make sure connector is properly assembled before installation. The highest IP rating we can achieve is IP68.

## Item Code

|         |                           |                |  |                          |   |                         |            |     |         |                          |
|---------|---------------------------|----------------|--|--------------------------|---|-------------------------|------------|-----|---------|--------------------------|
| C       | SFR                       | F22E           | VB   | 24CV                     | RGBW (27K)  | WM                      | 84         | 80  | 15W     | 83.3                     |
| Company | Material                  | Product Series | Bending Direction                            | Voltage & Circuit Type   | Color   | Base & Lighting Surface | LEDs Qty/m | CRI | Power/m | Min. Cutting Length (mm) |
| Clear   | SFR= Silicone Flex Ribbon | F22E=RGBW      | VB= Vertical Bending<br>HB= Vertical Bending | DC24V & Constant Voltage | RGBW(27K)= RGB& 2700K<br>RGBW(30K)= RGB & 3000K<br>RGBW(40K)= RGB & 4000K | WM= White & Milky       | 84         | 80  | 15W     | 83.3                     |

## Feature

Flexglo™ F22E RGBW Light (Silicone) is a color changing product with qua-chip SMD5050 RGBW LEDs as light source, an ideal product for project where premium LED is required. RGBW color changing is achievable via a 4 channel PWM controller or any compatible DMX-512 controller, and 2700K and 4000K in white color are optional. Thanks to the excellent weatherproof and UV-resistant performance of silicone material, it features a wide ambient working temperature range of -40-55 °C, especially suitable for harsh environment application.

Combined with the adoption of the DryWire™ technology, the IP68 Injection-moulded Connector is engineered for outdoor use, owing to its elegant appearance and strong adhesiveness acquired by the liquid silicone injection workmanship.

This product features a ultra long lifespan in outdoor application by leveraging other ClearTech™ such as the PinBoost™ technology enhancing physical reliability of light engine, the TwinFlex™ technology improving the conductivity and optimizing heat dissipation performance, the C-Mask™ technology making the light body self-cleaning and anti-UV and enabling consistent illumination.

## Electrical Parameter

| Category                 | C-SFR-F22E-VB | C-SFR-F22E-HB |
|--------------------------|---------------|---------------|
| Voltage (V)              | 24            | 24            |
| Current (mA/m)           | 625.0         | 625.0         |
| Power (W/m)              | 15            | 15            |
| Circuit Type             | CV            | CV            |
| LED Type                 | 5050          | 5050          |
| LEDs Qty/m               | 84            | 84            |
| LEDs Qty/unit            | 7             | 7             |
| Unit/m                   | 12            | 12            |
| Min. Cutting Length (mm) | 83.3          | 83.3          |
| Min. Cutting Length (in) | 3.28          | 3.28          |

## Optical Parameter

| Item Code                                   | Finished Product |                |                 |     |         |          | LED             |       |
|---|------------------|----------------|-----------------|-----|---------|----------|-----------------|-------|
|   | Color            | Wavelength/CCT | Color Tolerance | CRI | Lumen/m | Lumen/ft | Color Tolerance | CRI   |
| C-SFR-F22E-VB-24CV-RGBW(27K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 90lm    | 27lm     | < 3nm           |       |
|   | Green            | 522-530nm      |                 |     | 240lm   | 73lm     | < 3nm           |       |
|   | Blue             | 468-474nm      |                 |     | 40lm    | 12lm     | < 3nm           |       |
|   | 2700K            | 2725±145K      | < 5SDCM         | 80  | 240lm   | 73lm     | < 2.3SDCM       | 82~87 |
| C-SFR-F22E-VB-24CV-RGBW(30K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 90lm    | 27lm     | < 3nm           |       |
|   | Green            | 522-530nm      |                 |     | 240lm   | 73lm     | < 3nm           |       |
|   | Blue             | 468-474nm      |                 |     | 40lm    | 12lm     | < 3nm           |       |
|   | 3000K            | 3045±140K      | < 5SDCM         | 80  | 240lm   | 73lm     | < 2.3SDCM       | 82~87 |
| C-SFR-F22E-VB-24CV-RGBW(40K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 90lm    | 27lm     | < 3nm           |       |
|   | Green            | 522-530nm      |                 |     | 240lm   | 73lm     | < 3nm           |       |
|   | Blue             | 468-474nm      |                 |     | 40lm    | 12lm     | < 3nm           |       |
|   | 4000K            | 3985±275K      | < 5SDCM         | 80  | 240lm   | 73lm     | < 2.3SDCM       | 82~87 |

**Note:**

1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).
2. Color Tolerance refers to CLEAR standard for finished product and LED.

# Flexglo™ F22E RGBW Light (Silicone)

## Optical Parameter

| Item Code                                   | Finished Product |                |                 |     |         |          | LED             |       |
|---|------------------|----------------|-----------------|-----|---------|----------|-----------------|-------|
|   | Color            | Wavelength/CCT | Color Tolerance | CRI | Lumen/m | Lumen/ft | Color Tolerance | CRI   |
| C-SFR-F22E-HB-24CV-RGBW(27K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 85lm    | 26lm     | <3nm            |       |
|   | Green            | 522-528nm      |                 |     | 220lm   | 67lm     | <3nm            |       |
|   | Blue             | 468-474nm      |                 |     | 35lm    | 11lm     | <3nm            |       |
|   | 2700K            | 2725±145K      | <5SDCM          | 80  | 220lm   | 67lm     | <2.3SDCM        | 82~87 |
| C-SFR-F22E-HB-24CV-RGBW(30K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 85lm    | 26lm     | <3nm            |       |
|   | Green            | 522-530nm      |                 |     | 220lm   | 67lm     | <3nm            |       |
|   | Blue             | 468-474nm      |                 |     | 35lm    | 11lm     | <3nm            |       |
|   | 3000K            | 3045±140K      | <5SDCM          | 80  | 220lm   | 67lm     | <2.3SDCM        | 82~87 |
| C-SFR-F22E-HB-24CV-RGBW(40K)-WM-84-15W-83.3 | Red              | 618-624nm      |                 |     | 85lm    | 26lm     | <3nm            |       |
|   | Green            | 522-528nm      |                 |     | 220lm   | 67lm     | <3nm            |       |
|   | Blue             | 468-474nm      |                 |     | 35lm    | 11lm     | <3nm            |       |
|   | 4000K            | 3985±275K      | <5SDCM          | 80  | 220lm   | 67lm     | <2.3SDCM        | 82~87 |

**Note:**

1. CCT Tolerance refers to target CCT and tolerance (ANSI C78.377).
2. Color Tolerance refers to CLEAR standard for finished product and LED.

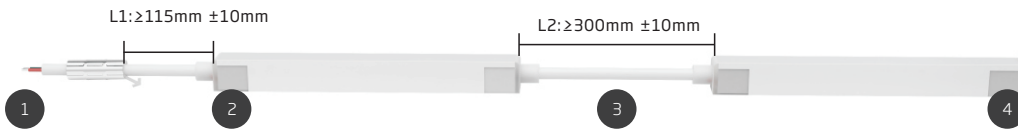
## Max. Running Length Input: DC24V

| Type                               | Silicone Injection-moulded Connector |                 |
|------------------------------------|--------------------------------------|-----------------|
| IP Rating                          | IP68                                 |                 |
| Item Code                          | Single-end Feed                      | Double-end Feed |
| C-SFR-F22E-15W-Static full loading | 8m                                   | 16m             |
| C-SFR-F22E-15W-Dynamic operating   | 12m                                  | 24m             |

**Note:**

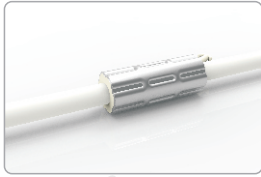
1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98f cable only).
2. The maximum running length is based on the light in static full loading status exceptionally stated dynamic.
3. Above running length is only the light length excluding lengths of connectors. Please refer to the specific dimension of each connector.
4. The delivery length might be subject to the maximum packing length.

# Connector Type



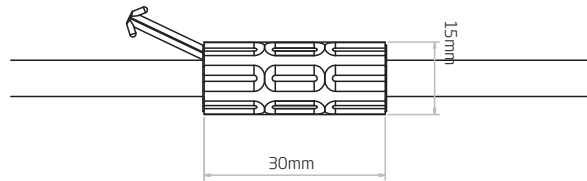
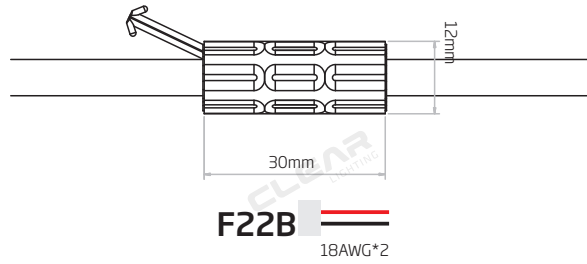
| 1   | 2  | 3  | 4   |
|---|--|--|---|
| <p>Male &amp; Female Connector (Optional)</p> <div data-bbox="199 683 391 873"> <p>Male Connector</p> </div> <div data-bbox="199 1030 391 1220"> <p>Female Connector</p> </div> | <p>Silicone Injection-moulded Front Connector</p> <div data-bbox="534 683 726 873"> <p>End</p> </div> <div data-bbox="534 1019 726 1209"> <p>Side-L</p> </div> <div data-bbox="534 1366 726 1556"> <p>Side-R</p> </div> <div data-bbox="534 1713 726 1904"> <p>Bottom</p> </div> | <p>Silicone Injection-moulded Middle Connector</p> <div data-bbox="869 683 1061 873"> <p>Silicone Injection-moulded Jumper<br/>Maximum 8 jumpers in 20m light<br/>Maximum 4 jumpers in 10m light</p> </div> <div data-bbox="869 1019 1061 1209"> <p>Silicone Injection-moulded T-feed<br/>Maximum 8 T-feeds in 20m light<br/>Maximum 4 T-feeds in 10m light</p> </div> | <p>Silicone Injection-moulded End Cap</p> <div data-bbox="1204 683 1396 873"> <p>End cap</p> </div> |

# Anti-wicking Ferrule



The anti-wicking ferrule is designed to lower the risk of water ingress from the cable in case of inadequate waterproof treatment on site.

For underwater application, do not immerse anti-wicking ferrule in the water.



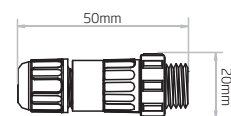
**Note:**

1. Unless otherwise stated, the tolerance is  $\pm 0.5\text{mm}$ .
2. The removal of anti-wicking ferrule will void the warranty if any water ingress caused by it.

# Male & Female Connector



For plug and play cable junction, IP67



**Note:**

Unless otherwise stated, the tolerance is  $\pm 2\text{mm}$ .

# F22 Stainless Steel Profile



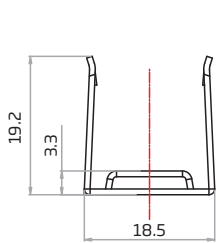
It uses grade 316 stainless steel with excellent property of deformation and rust resistance. The material makes it suitable for humid coastal surroundings and weak acid-base industrial environments that other mounting profiles can't accommodate. The structural design and material characteristics collectively ensure a tight clamping force. It's very convenient and reliable even for suspended installation in the curve shape.



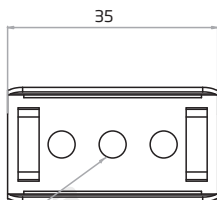
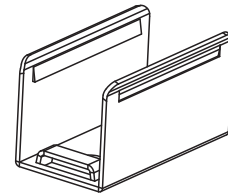
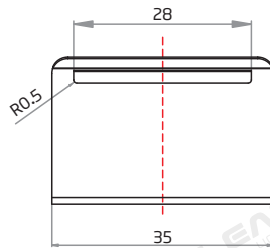
Please refer to the applicable installation ways.

| Test Object      | No. | Experiment Item               | Standard      |
|------------------|-----|-------------------------------|---------------|
| Metal Parts      | 1   | Weather Resistance-Salt Spray | IEC 68-2-11   |
| Mounting profile | 2   | Clamping force                | CLEAR-defined |

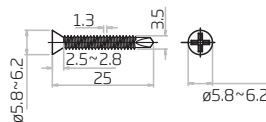
## Dimension: mm



Tolerance:  $\pm 0.3\text{mm}$



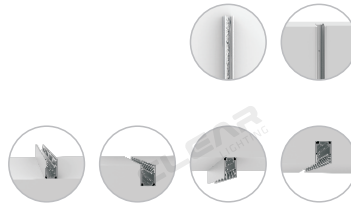
3x $\phi 4.5$



| Item Code          | Standard Length | Slotted Hole | Hole Number |
|--------------------|-----------------|--------------|-------------|
| F22-SS/PL-35MM-SSL | 35mm/1.378in    | 4.5mm/0.18in | 3           |



# F22 Serrated Aluminum Profile

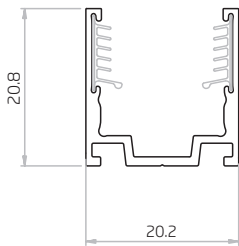


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

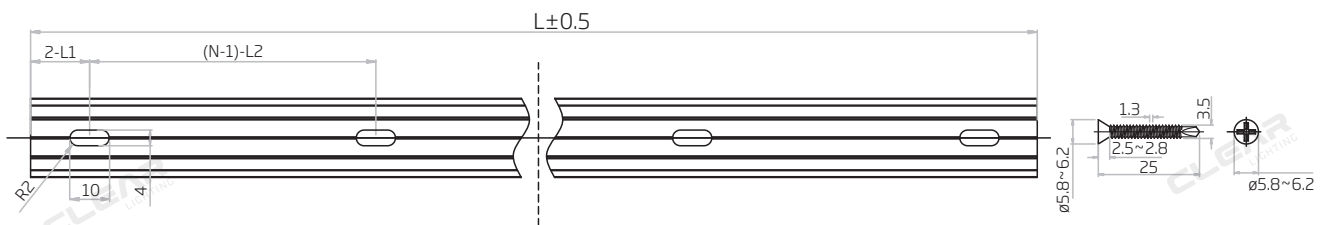
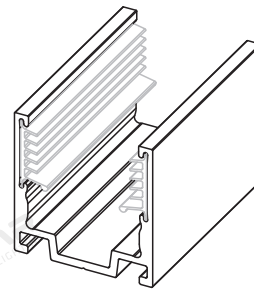
Please refer to the applicable installation ways.

| Test Object      | No. | Experiment Item               | Standard      |
|------------------|-----|-------------------------------|---------------|
| Metal Parts      | 1   | Weather Resistance-Salt Spray | IEC 68-2-11   |
| Mounting profile | 2   | Clamping force                | CLEAR-defined |

## Dimension: mm



Tolerance:  $\pm 0.3\text{mm}$



Note:

- 2-L1 refers to two of symmetric L1 in each piece of profile.
  - (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the below table

| Item Code           | Standard Length | L1           | L2           | Slotted Hole       | Hole Number |
|---------------------|-----------------|--------------|--------------|--------------------|-------------|
| F22-SA/PL-20MM-AL   | 20mm/0.787in    | 10mm/0.39in  | /            | 4*10mm/0.16*0.39in | 1           |
| F22-SA/PL-500MM-AL  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| F22-SA/PL-1000MM-AL | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| F22-SA/PL-2000MM-AL | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |

# F22 Flange Serrated Aluminum Profile



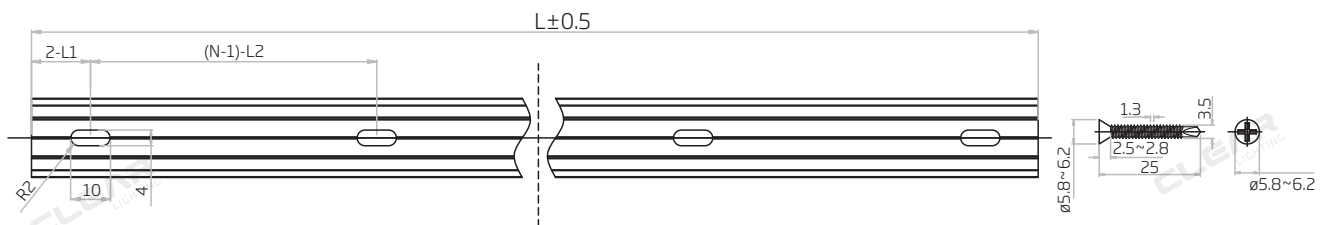
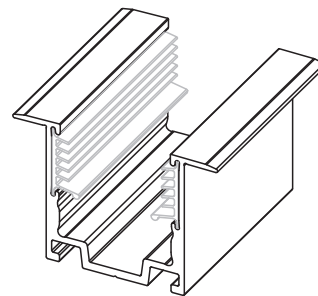
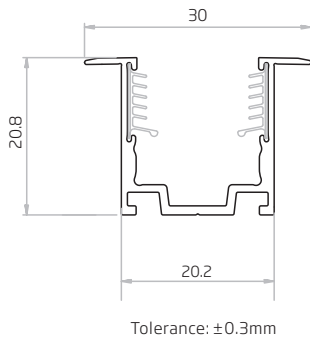
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large friction in the process of installation and dismantlement.

The "Flange" design is more suitable for recessed installation, better fits with the mounting groove and minimizes the operation tolerance during construction to some extent, like shielding the rough edges and the gaps of oversized groove.

Please refer to the applicable installation ways.

| Test Object      | No. | Experiment Item               | Standard      |
|------------------|-----|-------------------------------|---------------|
| Metal Parts      | 1   | Weather Resistance-Salt Spray | IEC 68-2-11   |
| Mounting profile | 2   | Clamping force                | CLEAR-defined |

## Dimension: mm

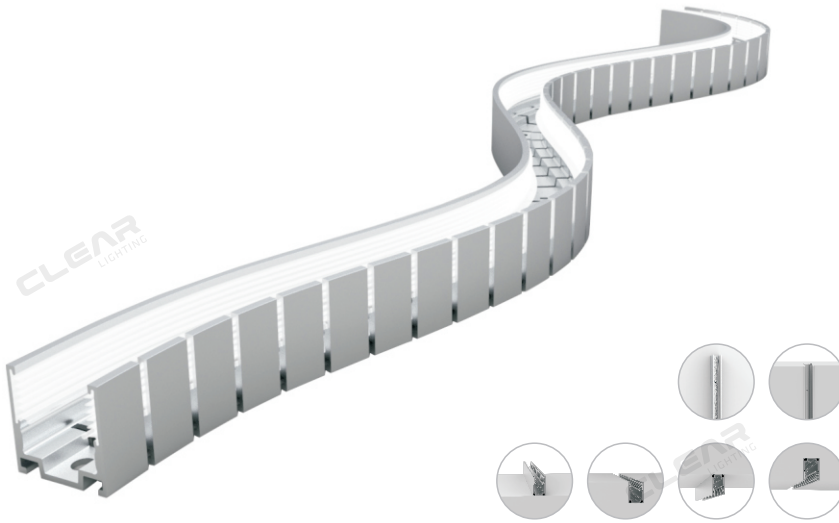


Note:  
 1. 2-L1 refers to two of symmetric L1 in each piece of profile.  
 2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile.  
 "N" hereby stands for its corresponding "Hole Number" in the below table

| Item Code            | Standard Length | L1           | L2           | Slotted Hole       | Hole Number |
|----------------------|-----------------|--------------|--------------|--------------------|-------------|
| F22-FSA/PL-20MM-AL   | 20mm/0.787in    | 10mm/0.39in  | /            | 4*10mm/0.16*0.39in | 1           |
| F22-FSA/PL-500MM-AL  | 500mm/19.68in   | 50mm/1.97in  | 200mm/7.87in | 4*10mm/0.16*0.39in | 3           |
| F22-FSA/PL-1000MM-AL | 1000mm/39.37in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 5           |
| F22-FSA/PL-2000MM-AL | 2000mm/78.74in  | 100mm/3.93in | 200mm/7.87in | 4*10mm/0.16*0.39in | 10          |



# F22 Bendable Serrated Aluminum Profile

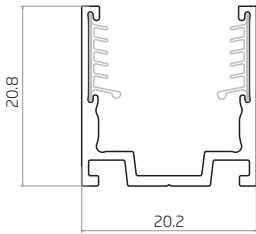


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

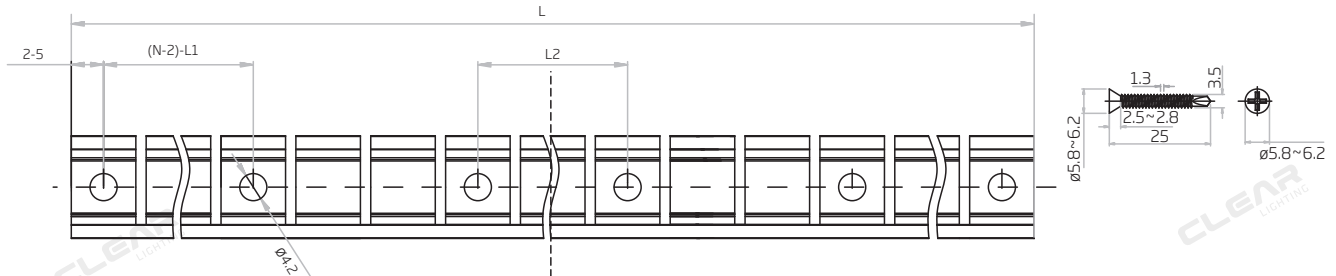
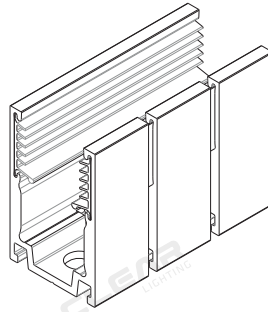
Please refer to the applicable installation ways.

| Test Object      | No. | Experiment Item               | Standard      |
|------------------|-----|-------------------------------|---------------|
| Metal Parts      | 1   | Weather Resistance-Salt Spray | IEC 68-2-11   |
| Mounting profile | 2   | Clamping force                | CLEAR-defined |

## Dimension: mm



Tolerance:  $\pm 0.3\text{mm}$



Note:

- 2-5 refers to two of symmetric 5mm in each piece of profile.
  - (N-2)-L1 refers to (N minus two) of symmetric L1 in each piece of profile.
- "N" hereby stands for its corresponding "Hole Number" in the below table

| Item Code            | Standard Length | L1             | L2            | Screw Hole                        | Hole Number |
|----------------------|-----------------|----------------|---------------|-----------------------------------|-------------|
| F22-BSA/PL-500MM-AL  | 500mm/19.68in   | 110.3mm/4.34in | 48.9mm/1.92in | $\phi 4.2\text{mm}/0.17\text{in}$ | 6           |
| F22-BSA/PL-1000MM-AL | 1000mm/39.37in  | 116.5mm/4.59in | 98.8mm/3.89in | $\phi 4.2\text{mm}/0.17\text{in}$ | 10          |