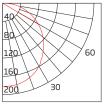
Flexglo[™] F22B Monochrome - White Light (Silicone)







UNIT: cd C90/270

Bending-extreme 2044 times

55.6mm/2.19in 6LFDs

Horizontal Bending

Twist-extreme 5514 times

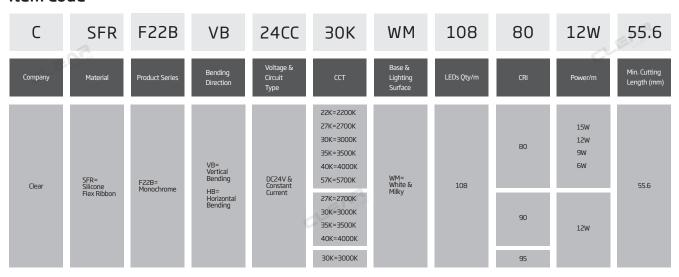
AVERAGE BEAM ANGLE (50%): 112.3°

>100 kg.f Warning: Extreme Destructive Tests in laboratory only, and it's forbidden to operate in practice

Tensile-instantaneous

- 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



Feature

Flexglo[™] F22B Monochrome - White Light (Silicone) is a popular item for architectural market with rated power options of 6W/m, 9W/m, 12W/m and 15W/m. Its CRI value can reach 95Ra and maximum luminous flux is up to 850lm/m. Thanks to the excellent weatherproof and UVresistant performance of silicone material, it features a wide ambient working temperature range of -40-55 $^{\circ}\!\text{C}$ excluding -40~45 °C for 15W/m, especially suitable for harsh environment application.

Multiple connector options are available for different applications. Combined with the adoption of the DryWire™

*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.

*The IP67 Field Assembly Connector, which is underpinned by the Insulfit™ technology that enables quick assembly in the field along with waterproof reliability (proper assembly required).

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

C-SFR-F22B-HB/VB							
24	24	24	24				
250.0	375.0	625.0	500.0				
6	9	15	12				
CC	CC	CC	CC				
2835	2835	2835	2835				
108	108	108	108				
6	6	6	6				
18	18	18	18				
55.6	55.6	55.6	55.6				
2.19	2.19	2.19	2.19				
	250.0 6 CC 2835 108 6 18	24 24 250.0 375.0 6 9 CC CC 2835 2835 108 108 6 6 18 18 55.6 55.6	24 24 24 250.0 375.0 625.0 6 9 15 CC CC CC 2835 2835 2835 108 108 108 6 6 6 18 18 18 55.6 55.6 55.6				

Max. Running Length Input: DC24V

CLE			30 205	ELE Contrac
Туре	Silicone Injection-moulded Connector			
IP Rating	IF	P68		
Item Code	Single-end Feed	Double-end Feed		
C-SFR-F22B-6W	30m	60m		
C-SFR-F22B-9W	18m	36m		
C-SFR-F22B-12W	15m	30m		
C-SFR-F22B-15W	10m	20m		

- 1. Above conclusion is based on voltage drop testing result of the light with 0.3m (0.98ft) cable only.
 2. The maximum running length is based on the light in static full loading status.
 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.

Optical Parameter

CRI80

	Finished Product					LED		
Item Code	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22B-VB-24CC-22K-WM-108-80-6W-55.6	2200K	2238±66K	<5SDCM	80	225lm	69lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-27K-WM-108-80-6W-55.6	2700K	2725±85K	<5SDCM	80	280lm	85lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-30K-WM-108-80-6W-55.6	<u>3000</u> 3000K	3045±105K	<5SDCM	80	280lm	85lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-35K-WM-108-80-6W-55.6	3500K	3465±245K	<5SDCM	80	290lm	88Im	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-40K-WM-108-80-6W-55.6	4000K	3985±150K	<5SDCM	80	290lm	88Im	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-57K-WM-108-80-6W-55.6	5700K	5669±305K	<5SDCM	80	290lm	88Im	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-22K-WM-108-80-9W-55.6	2200K	2238±66K	<5SDCM	80	340lm	104lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-27K-WM-108-80-9W-55.6	2700K	2725±85K	<5SDCM	80	420lm	128lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-30K-WM-108-80-9W-55.6	<u>3000K</u>	3045±105K	<5SDCM	80	420lm	128lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-35K-WM-108-80-9W-55.6	3500K	3465±245K	<5SDCM	80	440lm	134lm	<2.3SDCM	82~87

Flexglo[™] F22B Monochrome - White Light (Silicone)

Optical Parameter

CRI 80

								Tlou.
	Finished Product				LED			
Item Code	CCT	CCT Tolerance	Color Tolerance	CRI	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22B-VB-24CC-40K-WM-108-80-9W-55.6	4000K	3985±150K	<5SDCM	80	440lm	134lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-57K-WM-108-80-9W-55.6	5700K	5669±305K	<5SDCM	80	440lm	134lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-22K-WM-108-80-12W-55.6	2200K	2238±66K	<5SDCM	80	450lm	137lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-27K-WM-108-80-12W-55.6	2700K	2725±85K	<5SDCM	80	565lm	172lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-30K-WM-108-80-12W-55.6	3000K	3045±105K	<5SDCM	80	565lm	172lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-35K-WM-108-80-12W-55.6	3500K	3465±245K	<5SDCM	80	580lm	177lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-40K-WM-108-80-12W-55.6	4000K	3985±150K	<5SDCM	80	580lm	177lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-57K-WM-108-80-12W-55.6	5700K	5669±305K	<5SDCM	80	580lm	177lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-22K-WM-108-80-15W-55.6	2200K	2238±66K	<5SDCM	80	600lm	183lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-27K-WM-108-80-15W-55.6	2700K	2725±85K	<5SDCM	80	700lm	213lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-30K-WM-108-80-15W-55.6	<u>3000</u> K	3045±105K	<5SDCM	80	700lm	213lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-35K-WM-108-80-15W-55.6	3500K	3465±245K	<5SDCM	80	800lm	244lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-40K-WM-108-80-15W-55.6	4000K	3985±150K	<5SDCM	80	800lm	244lm	<2.3SDCM	82~87
C-SFR-F22B-VB-24CC-57K-WM-108-80-15W-55.6	5700K	5669±305K	<5SDCM	80	800lm	244lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-22K-WM-108-80-6W-55.6	<u> </u>	2238±66K	<5SDCM	80	190lm	58lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-27K-WM-108-80-6W-55.6	2700K	2725±85K	<5SDCM	80	235lm	72Im	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-30K-WM-108-80-6W-55.6	_ 3000К	3045±105K	<5SDCM	80	235lm	72Im	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-35K-WM-108-80-6W-55.6	3500K	3465±245K	<5SDCM	80	240lm	73Im	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-40K-WM-108-80-6W-55.6	4000K	3985±150K	<5SDCM	80	240lm	73Im	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-57K-WM-108-80-6W-55.6	5700K	5669±305K	<5SDCM	80	240lm	73lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-22K-WM-108-80-9W-55.6	2200K	2238±66K	<5SDCM	80	285lm	87lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-27K-WM-108-80-9W-55.6	2700K	2725±85K	<5SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-30K-WM-108-80-9W-55.6	<u> </u>	3045±105K	<5SDCM	80	350lm	107lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-35K-WM-108-80-9W-55.6	3500K	3465±245K	<5SDCM	80	360lm	110lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-40K-WM-108-80-9W-55.6	4000K	3985±150K	<5SDCM	80	360lm	110lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-57K-WM-108-80-9W-55.6	5700K	5669±305K	<5SDCM	80	360lm	110lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-22K-WM-108-80-12W-55.6	<u>2200</u> 2200K	2238±66K	<5SDCM	80	380lm	116lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-27K-WM-108-80-12W-55.6	2700K	2725±85K	<5SDCM	80	470lm	143lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-30K-WM-108-80-12W-55.6	_ 3000К	3045±105K	<5SDCM	80	470lm	143lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-35K-WM-108-80-12W-55.6	<u> </u>	3465±245K	<5SDCM	80	480lm	146lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-40K-WM-108-80-12W-55.6	<u>4000</u> 4000K	3985±150K	<5SDCM	80	480lm	146lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-57K-WM-108-80-12W-55.6	5700K	5669±305K	<5SDCM	80	480lm	146lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-22K-WM-108-80-15W-55.6	<u> </u>	2238±66K	<5SDCM	80	500lm	152lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-27K-WM-108-80-15W-55.6	2700K	2725±85K	<5SDCM	80	600lm	183lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-30K-WM-108-80-15W-55.6	<u> </u>	3045±105K	<5SDCM	80	600lm	183lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-35K-WM-108-80-15W-55.6	3500K	3465±245K	<5SDCM	80	700lm	213lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-40K-WM-108-80-15W-55.6	4000K	3985±150K	<5SDCM	80	700lm	213lm	<2.3SDCM	82~87
C-SFR-F22B-HB-24CC-57K-WM-108-80-15W-55.6	5700K	5669±305K	<5SDCM	80	700lm	213lm	<2.3SDCM	82~87



Optical Parameter

CRI 90

W 61		Finished Product							LED	
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI	
C-SFR-F22B-VB-24CC-27K-WM-108-90-12W-55.6	2700K	2725±85K	<5SDCM	90	35~80	480lm	146lm	<2.3SDCM	91~97	
C-SFR-F22B-VB-24CC-30K-WM-108-90-12W-55.6	<u> </u>	3045±105K	<5SDCM	90	35~80	480lm	146lm	<2.3SDCM	91~97	
C-SFR-F22B-VB-24CC-35K-WM-108-90-12W-55.6	<u> </u>	3465±245K	<5SDCM	90	35~80	500lm	152lm	<2.3SDCM	91~97	
C-SFR-F22B-VB-24CC-40K-WM-108-90-12W-55.6	4000K	3985±150K	<5SDCM	90	35~80	500lm	152lm	<2.3SDCM	91~97	
C-SFR-F22B-HB-24CC-27K-WM-108-90-12W-55.6	2700K	2725±85K	<5SDCM	90	35~80	420lm	128lm	<2.3SDCM	91~97	
C-SFR-F22B-HB-24CC-30K-WM-108-90-12W-55.6	<u> </u>	3045±105K	<5SDCM	90	35~80	420lm	128lm	<2.3SDCM	91~97	
C-SFR-F22B-HB-24CC-35K-WM-108-90-12W-55.6	_ 3500К	3465±245K	<5SDCM	90	35~80	430lm	131lm	<2.3SDCM	91~97	
C-SFR-F22B-HB-24CC-40K-WM-108-90-12W-55.6	4000K	3985±150K	<5SDCM	90	35~80	430lm	131lm	<2.3SDCM	91~97	

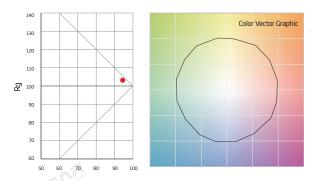
CRI95

Nam Code	Finished Product						LED		
Item Code	ССТ	CCT Tolerance	Color Tolerance	CRI	R9	Lumen/m	Lumen/ft	Color Tolerance	CRI
C-SFR-F22B-VB-24CC-30K-WM-108-95-12W-55.6	3000K	3045±105K	<5SDCM	95	80~99	400lm	122lm	<2.3SDCM	96~99
C-SFR-F22B-HB-24CC-30K-WM-108-95-12W-55.6	3 000K	3045±105K	<5SDCM	95	80~99	360lm	110lm	<2.3SDCM	96~99

Note

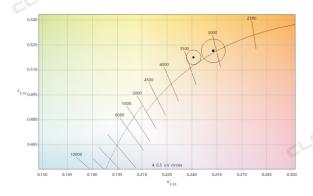
- $1.\,\mathsf{CCT}\,\mathsf{Tolerance}\,\mathsf{refers}\,\mathsf{to}\,\mathsf{target}\,\mathsf{CCT}\,\mathsf{and}\,\mathsf{tolerance}\,(\mathsf{ANSI}\,\mathsf{C78.377}).$
- $2. Color Tolerance \, refers \, to \, CLEAR \, standard \, for \, the \, different \, batch \, of \, finished \, product \, and \, LED, \, and \, it's \, < \, 3SDCM \, for \, same \, batches \, of \, finished \, product.$

TM-30



IES TM-30-15 is a new system of several related measures and graphics that can be used together to effectively evaluate and communicate a light source's color rendering properties. The development of the method involved synthesizing multiple related research efforts and combining ideas into a single, cohesive system of objective information that can be used to aid decision-making processes, such as finding the preferred light source for a given application or evaluating the tradeoffs between efficacy and color rendering.

Measure		Description
Fidelity Index	Rf	Analogous to CIE Ra (CRI). Characterizes the average color shift of the 99 CES to characterize the overall level of similarity between the test source and reference illuminant. Values range from 0 to 100.
Gamut Index	Rg	Compares the area enclosed by the average chromaticity coordinates in each of 16 hue bins to characterize the average saturation level of the test source compared to the reference illuminant. A neutral score is 100, with values greater than 100 indicating an increase in saturation and values less than 100 indicating a decrease in saturation. The range in values grows as fidelity decreases.

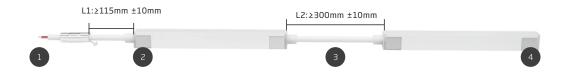


Color Matching

Color temperature value stated on all CLEAR's documents refers to finished products. LED's color temperature would be shifted by the light diffuser made of PVC or silicone material. CLEAR calibrates color temperature and color coordinate of tailor-made LEDs with proprietary color-matching algorithms to produce a precise color temperature and color coordinate close to black body locus for finished products. All LEDs would be strictly tested and tightly controlled to ensure finished products can meet ANSI standard.

Connector Type





Male & Female Connector (Optional)

Silicone Injection-moulded

Silicone Injection-moulded Middle Connector

Silicone Injection-moulded







Silicone Injection-moulded Jumper Maximum 8 jumpers in 20m light Maximum 4 jumpers in 10m light





Female Connector



Side-L



Maximum 8 T-feeds in 20m light Maximum 4 T-feeds in 10m light

E LICHTING

Side-R







CLERA

Anti-wicking Ferrule

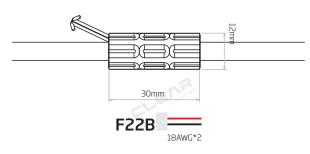




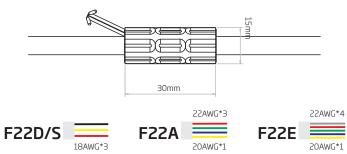


The anti-wicking ferrule is designed to lower the risk of water ingression from the cable in case of inadequate waterproof treatment on site.

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



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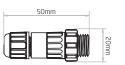
Note:

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

Male & Female Connector



For plug and play cable junction, IP67



Note

Unless otherwise stated, the tolerance is ±2mm.



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.

No.	Experiment Item	Standard
1	Weather Resistance-Salt Spray	IEC 68-2-11
2	Clamping force	CLEAR-defined
	2	

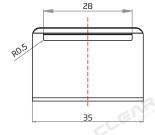
Dimension: mm

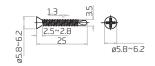


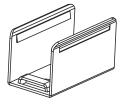
Tolerance: ±0.3mm

35











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

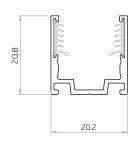


Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

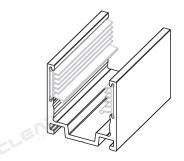
Please refer to the applicable installation

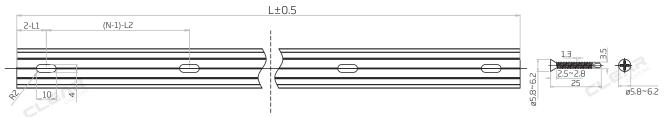
1	Weather Resistance-Salt Spray	IEC 68-2-11
2	Clamping force	CLEAR-defined
		CLE N.F
	2	

Dimension: mm









- 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-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



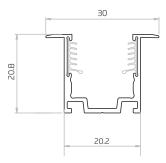
Specialized for the LED Flex Linear light, it was developed by combining the advantages of 6063 aluminum and elastic serrated tape. The inside elastic serrated tape as the grabbing force to keep continuous strong clamping force on the light body and protect the light from the damage caused by the large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

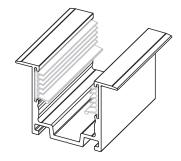
Please refer to the applicable installation ways.

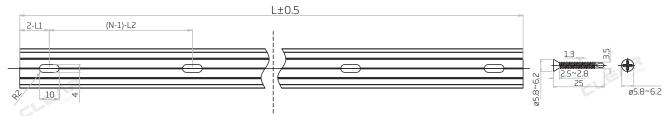
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
Dimension: mm			CLENT

Dimension: mm



Tolerance: ±0.3mm

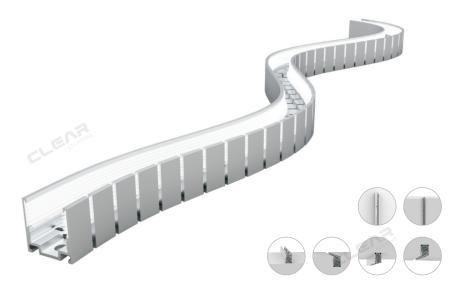




- 1. 2-L1 refers to two of symmetric L1 in each piece of profile.
- 2. (N-1)-L2 refers to (N minus one) of symmetric L2 in each piece of profile. "N" hereby stands for its corresponding "Hole Number" in the below table

Item Code	Standard Length	Ц	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

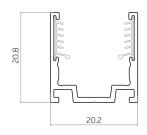


It is an expanded design of the serrated aluminum profile, and caters for the continuously streamlined aesthetics of curve shape. The secondary precision cutting process, not only maintains the advantage of clamping force, but also enables the two-way horizontal bending directions with super shape memory.

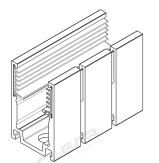
Please refer to the applicable installation ways.

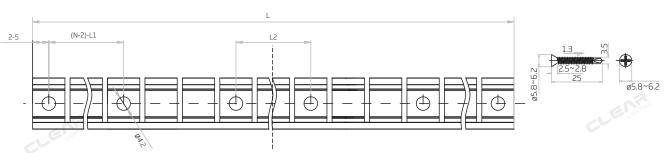
Test Object	No.	Experiment Item	Standard
Metal Parts	1	Weather Resistance-Salt Spray	IEC 68-2-11
Mounting profile	2	Clamping force	CLEAR-defined
Dimension: mm			CLENA

Dimension: mm









- 1. 2-5 refers to two of symmetric 5mm in each piece of profile.
- 2. (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	9
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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	ø4.2mm/0.17in	6
F22-BSA/PL-1000MM-AL	1000mm/39.37in	116.5mm/4.59in	98.8mm/3.89in	ø4.2mm/0.17in	10