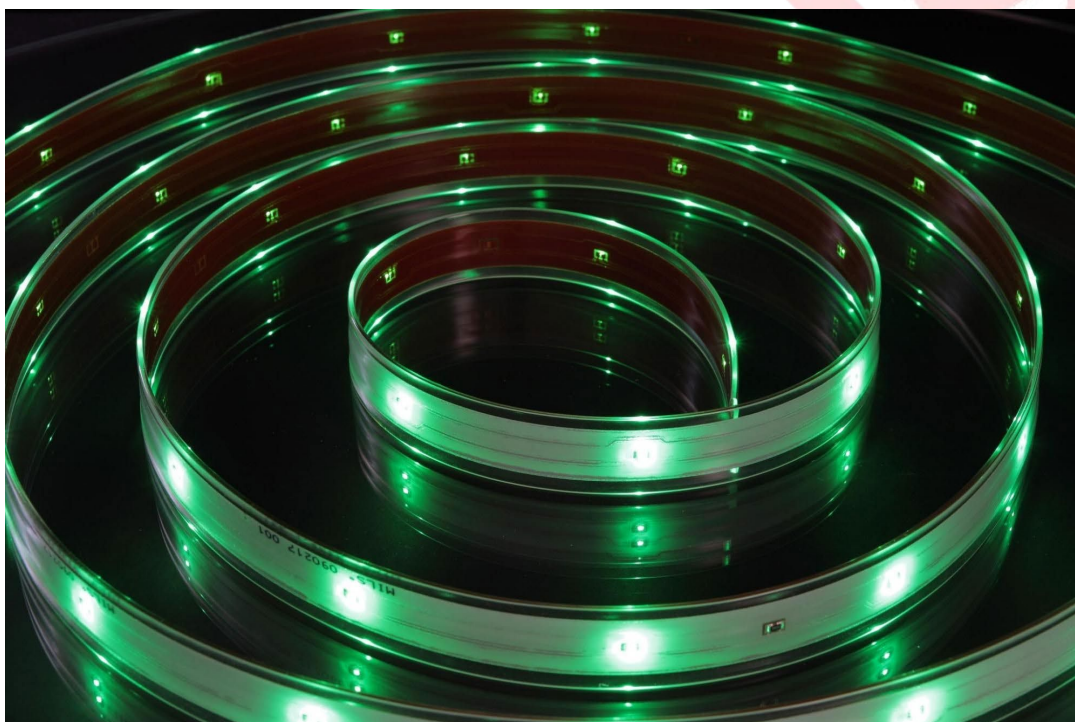




MILS® EXIT STRIP LIGHT DATASHEET

MILS® Exit Strip Light (01181833) provides a highly visible and illuminating line of light that gives clear guidance and logical direction for people that have been placed in unavoidable extenuating circumstances.

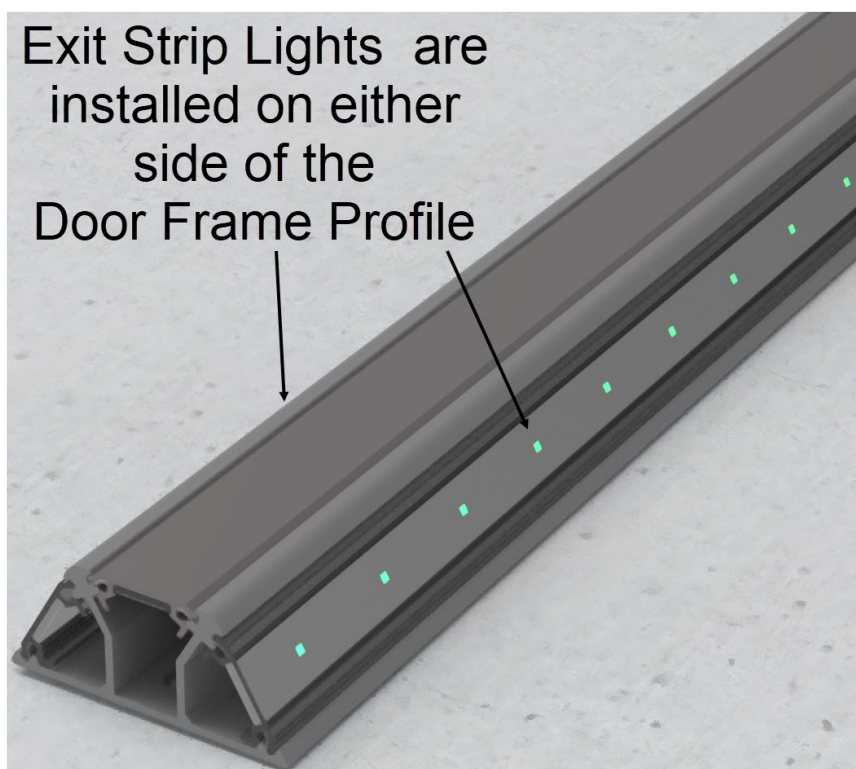
MILS® Exit Strip Light minimizes the problems in that can occur in dangerous situations by providing the best visual aid possible to identify tunnel exits or exits in confined spaces.



The best possible mechanical stability and protection is provided for MILS® Exit Strip Light by encompassing it in a specially designed ridged form that is inset into the uniquely designed wall-mounted profile.

Benefits :

- Easy, flexible, and fast to install
- Completely maintenance-free
- Extremely longer life-expectancy in normal operation
- Provides highly illuminated static escape information



TECHNICAL DETAILS 01181833	
MILS® Exit Strip Light Datasheet	
SPECIFICATIONS	DESCRIPTION
Operation of strip:	Static
Dimensions:	Width 22mm +/-1mm Thickness <3,5+/-0,5mm Section length 600mm
Weight:	~100g/m
Compression resistance:	>360kg/ cm3
Max recommended length:	15m (at 48,0 VDC)
Operating voltage:	48V DC
Power consumption per meter:	8 W/m
Light output:	N.A (Waiting for RISE test certificate)
Light sources:	Lifetime >50 000h L80B10(C10) Illumination angle 120deg Estimated luminous flux per meter 500 lm Luminous intensity: ±5 % Luminous flux: ±5 %
Materials:	Continuous FCB (Flexible Circuit Board): MILS Strip = Polyamide (PI) + Copper (Cu) encapsulated with transparent Thermoplastic Polyurethane (TPU) Non-toxic material
Colour finish of FPC:	Green
Colour of LED (Colour code):	Green
IP Rating:	IP68

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MILS® DOOR LOCATING SOLUTION

The effect of seeing a MILS® Door Locating Solution with its illuminated frame provides an assurance anyone in danger in the dark is grateful to rest their eyes on.

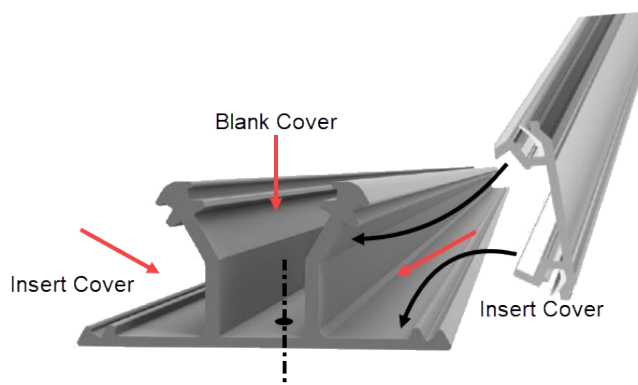


The highly visible frame, carrying MILS® Green Strip Light, is created from a simple to install, yet uniquely designed profile that maximizes the radial light distribution area from wall to wall and floor to ceiling.



Benefits :

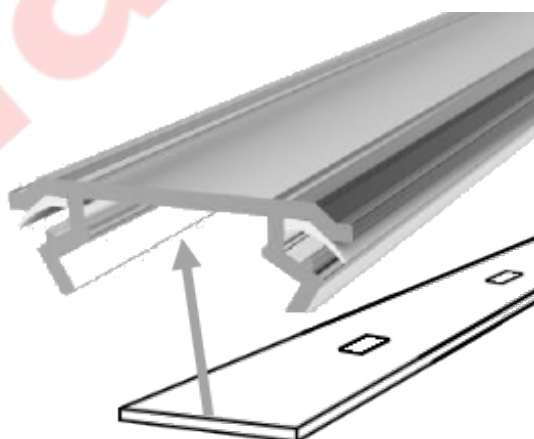
- Easy, flexible, and fast to install
- Completely maintenance-free
- Extremely long life-expectancy, designed up to be used 100,000x
- Provides highly illuminated static escape information



Before assembling, the profile (viz Profile 7001932) is installed using predrilled screw holes located in the centre section of the profile.

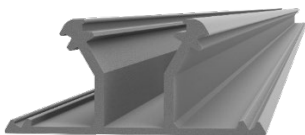

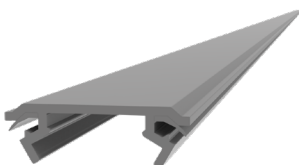
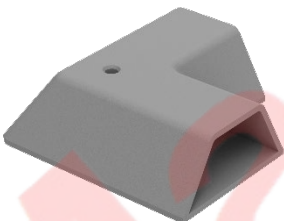
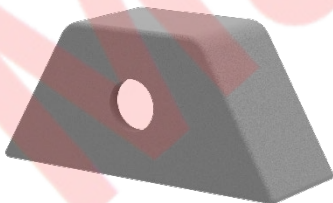
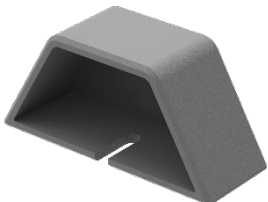


The profiles are connected at the top corners of the frame with corner joints (viz Corner Joint 8001250). The base is secure with screws, similar to the profiles, and after the lighting equipment is assembled, a clip-on cover is fitted over the corner joint.



After the frame is installed, the MILS® Green Strip Light, as shown above, is inserted into the insert cover (viz Insert Cover 7001895) which is, in turn, clipped into profile (viz Profile 7001932).



TECHNICAL DETAILS	
MILS® Door Locating Solution	
PRODUCT	DESCRIPTION
	<p>Profile (7001932) forms the basis of the MILS® Door Locating Solution.</p> <p>Its design allows the profile to have three insert covers clipped securely on to its top and sides. The top surface holds the blank insert cover and the sides have insert covers containing the MILS.117.005 Strips</p> <p>Material: -GFRP</p>
	<p>Insert Cover (7001895) retains a MILS.117.005 Strip, which is inset below its upper surface.</p> <p>The insert cover is clipped into the profile to form a IP68 seal</p> <p>Material: Polycarbonate</p>
	<p>Blank Cover (7001972) covers the cable opening the profile.</p> <p>The blank cover is clipped into the profile to form a IP68 seal</p> <p>Material: Polycarbonate</p>
	<p>Corner Joint (8001250) creates an Intersection between two profile lengths at 90°.</p> <p>The corner joint is composed of a base with a clip-on cover and is secured with a screw</p> <p>Material: -GFRP</p>
	<p>End Cap with Hole (7001951) terminals the profile and provides fire protection and prohibits the ingress of moisture</p> <p>There is a hole provided for cable access and with cable glands provides an IP68 rating</p> <p>Material: -GFRP</p>
	<p>End Cap (7001933) terminals the profile and provides fire protection and prohibits the ingress of moisture providing an IP68 rating</p> <p>Material: -GFRP</p>



Note: Both GFRP (Glass Fiber Reinforced Polymer) and Polycarbonate used in the production of our products are UL94-VO certified.

Note of compliance with NMF02 2023:

As the LED strip is used to delineate the frame of an emergency exit and the emergency exit lighting is permanently illuminated, the LED strip fulfils the following performance requirements.

- It has a minimum opening of 120 degrees for the vertical plane
- It has an average initial luminaire luminous flux of $200 \leq \Phi_i \leq 250 \text{ lm/m}$
- It has a minimum initial luminaire luminous flux of $\Phi_i = 180 \text{ lm/m}$
- It has a green colour according to the standard ISO 3864-4:2011

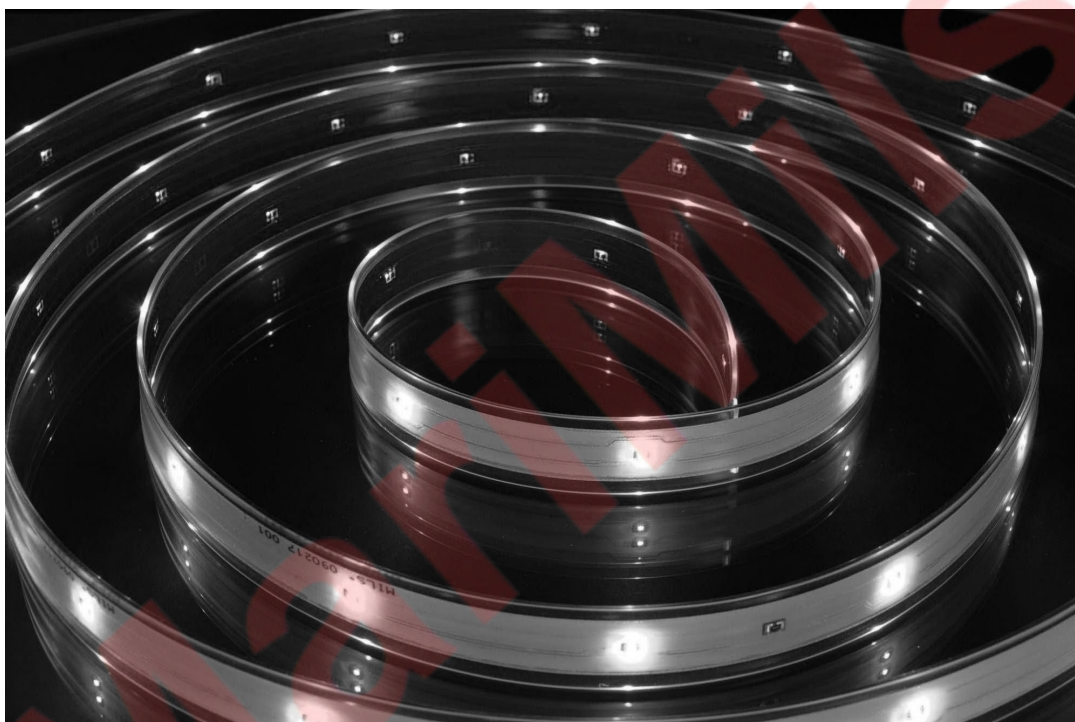
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MILS® EMERGENCY TUNNEL STRIP DATASHEET

MILS® Emergency Tunnel Strip (01181831) provides a highly visible and illuminating line of light that gives clear guidance and logical direction for people that have been placed in unavoidable extenuating circumstances.

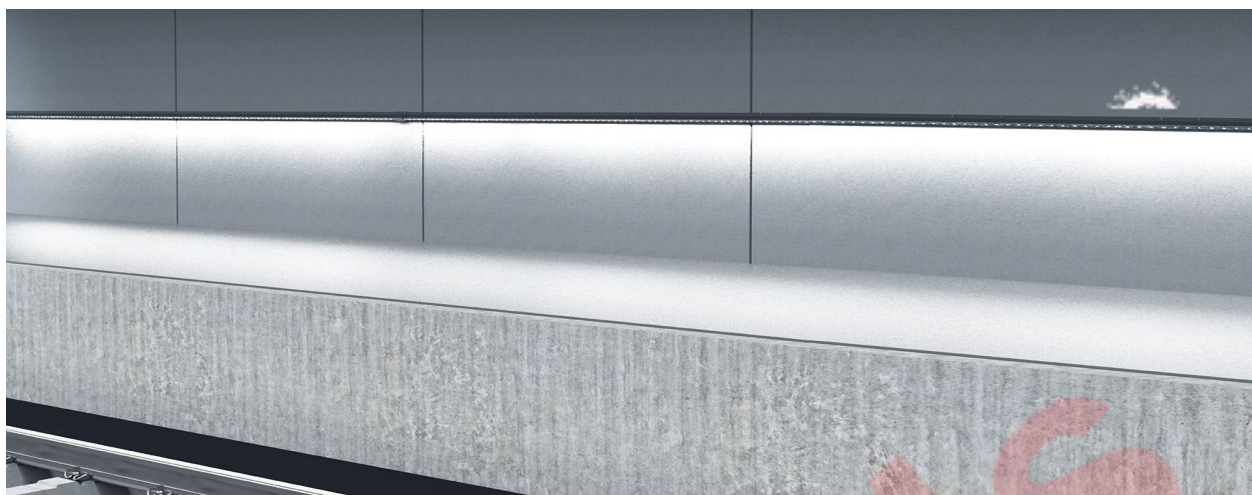
MILS® Emergency Tunnel Strip minimizes the problems in that can occur in dangerous situations by providing the best visual aid possible to identify tunnel exits or exits in confined spaces.



The best possible mechanical stability and protection is provided for MILS® Emergency Tunnel Strip by encompassing it in a specially designed ridged form that is inset into the uniquely designed wall-mounted hand-rail profile.

Benefits :

- Easy, flexible, and fast to install
- Completely maintenance-free
- Extremely long life-expectancy, designed with lower current than specified by manufacturer
- Provides highly illuminated static escape information



TECHNICAL DETAILS 01181831	
MILS® Emergency Tunnel Strip 117.05 Datasheet	
SPECIFICATIONS	DESCRIPTION
Operation of strip:	Static
Dimensions:	Width 22mm +/-1mm Thickness <3,00+/-0,5mm Section length 600mm
Weight:	~50g/m
Compression resistance:	>360kg/ cm3
Max recommended length:	75m (at 48,0 VDC)
Operating voltage:	48V DC
Power consumption per meter 22mm +/-1mm 22mm +/-1mm:	2.2 W/m
Light sources:	CCT 4000K+/-10% Lifetime >75 000h L80B10(C10) Illumination angle 120deg CRI 80 Luminous flux per meter 217 lm Luminous intensity: ±5 % Luminous flux: ±5 %
Materials:	Continuous FCB (Flexible Circuit Board): MILS Strip = Polyamide (PI) + Copper (Cu) encapsulated with transparent Thermoplastic Polyurethane (TPU) Non-toxic material
Colour finish of FPC:	White
Colour of LED (Colour code):	White
IP Rating:	IP68

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MILS® HANDRAIL STANCHION SOLUTION DATASHEET

In areas where the MILS® Intelligent Guiding and Emergency Lighting System Handrails cannot be secured directly to the tunnel side walls, the handrails can be supported on MILS® Handrail Stanchions.

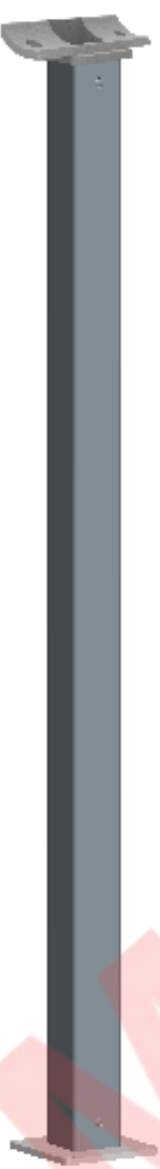




The handrail stanchions are placed equidistance along the sides of a tunnel wall.



MILS® Handrail Stanchions (8001292) have three separate component parts, which have been designed for easy installation.



TECHNICAL DETAILS	
MILS® Door Locating Solution	
PRODUCT	DESCRIPTION
  <p>Handrail Fixture</p> <p>Stanchion</p>  <p>Pedestal</p>	<p>Handrail Stanchion Fixture 7001923</p> <p>The handrail stanchion is designed to hold the handrail at the correct angle so that the strip light beam is illuminating the area as required.</p> <p>The handrail stanchion fixture height can be easily adjusted when assembling to ensure the alignment of the handrails</p> <p>Dimensions: 100x 50 x 80</p> <p>Weight: ~0.5 kg</p> <p>Material: GFRP</p>
	<p>Stanchion 7001920</p> <p>The unattached square stanchion bar allows for easy height adjustment when assembling, if, for example, the required height of the stanchion is not standard, due to an uneven ground surface, bar can be trimmed, or the height adjusted with the handrail stanchion fixture</p> <p>Dimensions: 50x 50 x 1000 (Standard Length)</p> <p>Weight: ~7 kg</p> <p>Material: GFRP</p>
	<p>Stanchion Pedestal 7001921</p> <p>The detachable stanchion pedestal allows anchor bolts to be easily installed before attaching the vertical stanchion bar</p> <p>Dimensions: 100x 100 x 56</p> <p>Weight: ~0.8 kg</p> <p>Material: GFRP</p>

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MILS® HANDRAIL WALL SOLUTION

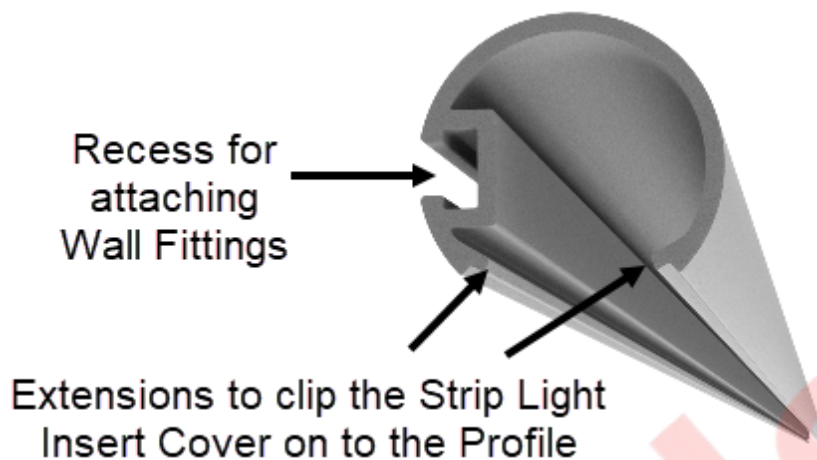
MILS® Intelligent Guiding and Emergency Lighting System includes a complete array of components necessary to create a comprehension emergency tunnel lighting system, of which a major part of it is illuminated handrails, incorporated in the MILS® Handrail Wall Solution

Handrails are secured to cement or concrete tunnel side walls. (If securing to the tunnel walls is not a possibility in certain situations, MariMils® has prepared a solution to install handrails on stanchions (viz MILS® Handrail Stanchion Solution).



The primary component in the MILS® Handrail Wall Solution is the purposely-designed 5.5 meter profile that carries the lighting strip and cables.



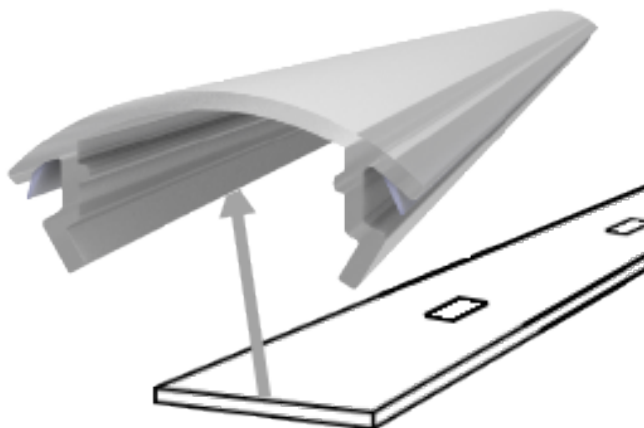


The unique design had been refined to maximize its functionality and create a robust strip light housing (IK08), which meets the severest demands that are associated with tunnel traffic.





For information on strip lights see 'MILS Tunnel Strip 117.05 Datasheet'.



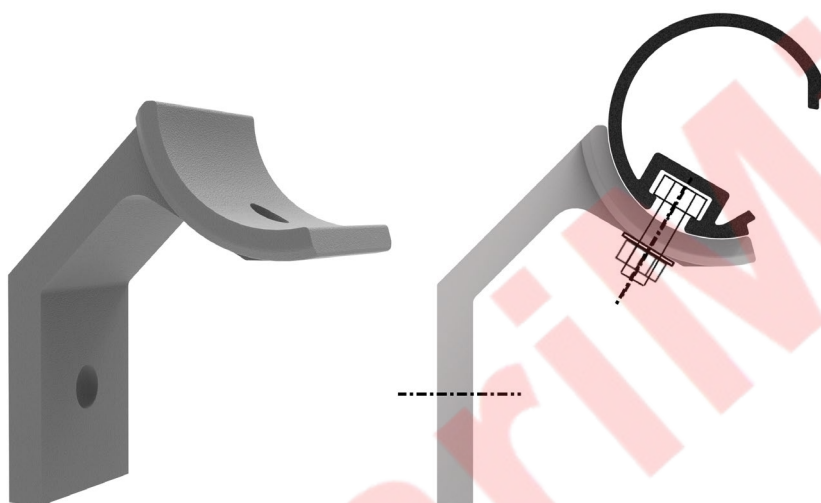
Before clipping the Cover Profile (7001972) into the Handrail profile (7001905), the strip lighting (viz MILS Tunnel Strip 117.05) is installed into the underside of the cover profile.

After the cover profile has been clipped in place the handrail profile can be attached to the wall.

There two types of wall fittings used

1. The Wall Bracket (7002013)

A Wall Bracket (7002013) is placed every meter along the wall where the handrail is to be located. It is fitted to the wall with an anchor bolt about 1 meter from the floor. Six brackets are required to support a 5.5 meter profile.



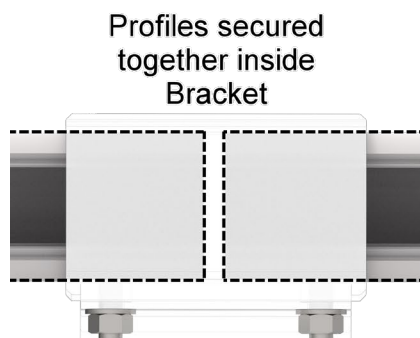


When the wall brackets have been aligned and installed on a wall, the handrail profile is prepared by slipping the necessary number of bolts along the recess in the profile, which are then fitted into the bolt hole of each bracket and tightened with a washer and a nut.

See Technical Details

2. The Extension Wall Bracket (8001290)

This profile extension wall bracket (8001290) is similar in construction to the wall bracket (7002013); however, this bracket is designed to accommodate and support the ends of two lengths of profile.

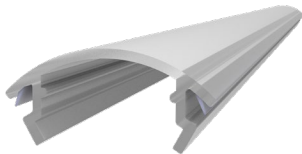
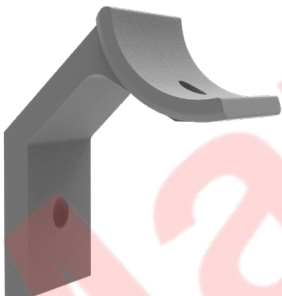


The profiles are secured with bolts that slide into slots on each side of bracket.

When the ends of the profile are secured to the bracket (coloured orange), they are then completely encased and protected with a clip-on locking clamp (coloured grey).

See Technical Details

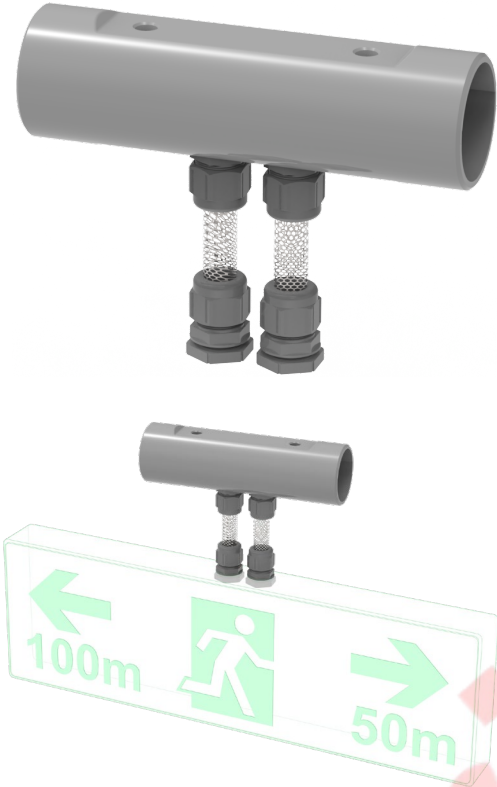
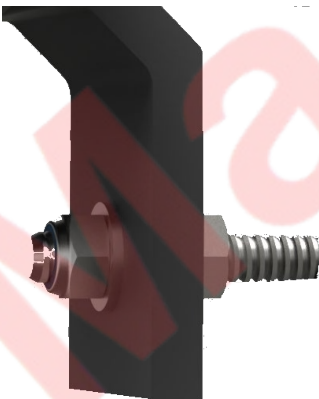


TECHNICAL DETAILS	
MILS® Door Locating Solution	
PRODUCT	DESCRIPTION
	<p>Handrail Profile (7001905)</p> <p>Dimensions: L=5495 x Ø50 Wall thickness =3mm</p> <p>Material: -GFRP</p>
	<p>Cover Profile (7001895)</p> <p>Cover profile (7001895) retains a MILS.117.005 Strip, which is inset below its upper surface.</p> <p>The insert cover is clipped into the profile to form a IP68 seal</p> <p>Dimensions: L=~5495 x H=15.4 x W=35mm</p> <p>Material: Polycarbonate</p>
	<p>Handrail Wall Bracket (7002013)</p> <p>Dimensions: 84 x 71 x 50 mm</p> <p>Material: -GFRP</p>
	<p>Handrail Extension Bracket (7002010)</p> <p>Dimensions: 115 x 100 x 79 mm</p> <p>Material: -GFRP</p> <p>Handrail Extension Bracket Cover 7002011</p> <p>Dimensions: 100 x 67 x 46 mm</p> <p>Material: -GFRP</p>



TECHNICAL DETAILS	
MILS® Door Locating Solution	
PRODUCT	DESCRIPTION
	<p>Profile Angled End Cap (Right) set (8001288) Profile Angled End Cap (Left) set (8001293)</p> <p>Dimensions: 173.2 x 92.2 x ~60 mm</p> <p>Material: -GFRP</p>
	<p>Profile Angled end cap for cable gland (Right) set (8001291) for Electrical Outputs</p> <p>Profile Angled end cap for cable gland (Left set (8001294) for Electrical Outputs</p> <p>Dimensions: 173.2 x 92.2 x ~60 mm + Cable Glands</p> <p>Material: -GFRP</p>
	<p>Corner Joint (7002006)</p> <p>Dimension: 123.2 x 123.2 x Ø58.4mm</p> <p>Material: -GFRP</p>
	<p>Profile Extension Joint (8001284)</p> <p>Dimensions L=200 x ~Ø60mm</p> <p>Material: -GFRP</p>



TECHNICAL DETAILS	
MILS® Door Locating Solution	
PRODUCT	DESCRIPTION
	<p>Profile Extension Joint with Cable Gland Set (viz two cable glands) for Electrical Outputs</p> <p>(Profile 45 Tupla End.379 Extension)</p> <p>For example, to be used for attaching an Illuminated Exit Indicator Notice, etc.</p> <p>Material: -GFRP</p>
	<p>Threaded Extension Anchor Studs</p> <p>Threaded extension anchor studs allow the handrails to be adjusted and positioned at a specific distance away from the walls.</p> <p>10mm Threaded Anchor Studs</p>

Note: Both GFRP (Glass Fiber Reinforced Polymer) and Polycarbonate used in the production of our products are UL94-VO certified.

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