



## DATA SHEET

POR LED extrusion – article number B6144

### Product characteristics

The extrusion is designed for LED lighting systems to be mounted in handrails and railings made of steel or aluminum, with a diameter of 42 mm and a wall thickness of 2 mm. The extrusion is made from high quality, double-anodized aluminum and designed for flexible or rigid LED strips that are 8 – 12mm wide. One of the accessories offered for the extrusion are covers that shade and protect LEDs inside the profile. The available covers are: covers HS (frosted or clear) or LIGER (frosted matte). Covers are made of polycarbonate and HS covers are certified for excellent resistance to all weather conditions and UV radiation, as well as being flame retardant.

Standard polypropylene end caps are used for the extrusion as supplementary accessories. End caps protect the extrusion from dust and other undesirable elements, which can make LED strips dirty and consequently deteriorate the lighting parameters.

The extrusion is mounted in the handrail, after 16.5mm-wide and no longer than 1050mm-long slot has been made (cutting of the tube wall any longer will cause its deformation). The 1050mm dimension is consistent with the adopted spacing of fasteners of handrails, e.g. posts, booms, brackets, etc. Mounting of the extrusion in the handrail is done using special POR clips; it is recommended to use a minimum of two clips per fixture (maximum distance between the clips is 50 cm).

An integrated, straight line of light can be achieved by assembling the extrusion, densely spaced LEDs (minimum 140 LEDs per meter) and frosted HS cover or frosted matte LIGER cover (minimum 120 LED per meter). The LED fixture can also be assembled to be waterproof and has its ingress protection rating (describes the protection against the ingress of solids, dust and water) equal to IP 67.

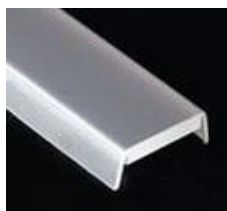
### Applications

Due to its shape, the extrusion with LED light source provides an ideal solution for decorative lighting mounted in railings or handrails both indoors and outdoors. For outdoor lighting, we recommend the sealed version, resistant to water and dust ingress.

### Products related to the Extrusion



cover type K/KA-BIS  
frosted (1547/17071)  
clear (1548/17072)  
cover type LIGER  
frosted matte (17031)



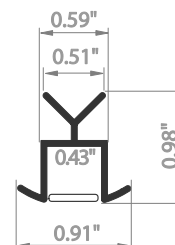
cover type HS  
frosted (1369)  
clear (1370)



end cap  
without hole (24021)



POR clip (24014)



### Technical specification

Ingress Protection Rating

IP 20 (standard), IP 67 (optional)

Available lengths

1,05 m (can be cut to any size)

Material

body – aluminum, cover – polycarbonate (PC), end cap,  
clip – polypropylene (PP)

