

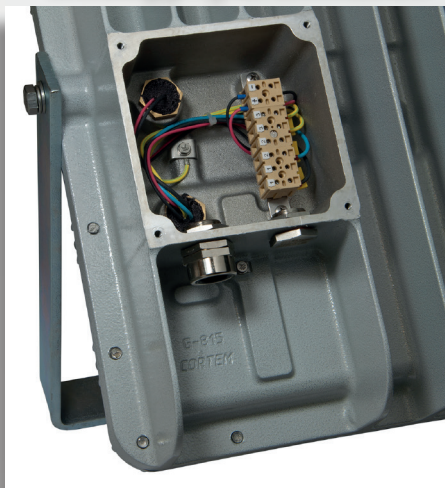
# SLED-ME

- Zone 1, 2, 21, 22
- Mechanical strength
- Reliability over time
- Instant, bright illumination
- IK11

*Painted aluminium  
body and cover*

*Tempered glass*

*Ex e terminal board  
housing for fast connection*



*Mounting bracket*

# SLED-ME series LED floodlights "square shaped beam"

SLED-ME series floodlights with LED technology combine lightweight, compact design, high performance in terms of reliability, safety, efficiency and energy saving. The finned body of the floodlight acts as a heat sink for the LED plate, allowing the installation of greater light output without incurring the deterioration of the LEDs. The flat protective glass is resistant to shocks and high temperatures and ensures an environment friendly lighting. Due to their high luminous output and to a white light with a colour rendering index greater than 70, SLED-ME series floodlights are able to replace the traditional rectangular floodlights that use discharge lamps sodium vapour or metal halide, guaranteeing lighting quality and visual comfort.

## Application sectors:



## CERTIFICATION DATA

|                                  |   |   |  |  |
|----------------------------------|---|---|--|--|
| <b>Classification:</b>           | Group II  | Category 2GD  |  |  |
| <b>Installation:</b> EN 60079.14 | zone 1 - zone 2 (Gas)   | zone 21 - zone 22 (Dust)  |  |  |
| <b>Marking:</b>                  | CE 0722 Ex II 2GD - Ex db eb IIB+H <sub>2</sub> T... Gb - Ex tb IIIC T...°C Db - IP66   |   |  |  |
| <b>Certification:</b>            | ATEX CML 19 ATEX 1312   |   |  |  |
|                                  | IECEX IECEX CML 17.0004   | All IEC Ex, UKEX and INMETRO certification data can be downloaded at <a href="http://www.cortemgroup.com">www.cortemgroup.com</a> |  |  |
|                                  | UKEX AVAILABLE  |   |  |  |
|                                  | INMETRO DNV 19.0034 X<br>For SLED-250, SLED-400, SLED-600, SLED-1000  |   |  |  |
| <b>Standards:</b>                | CENELEC EN 60079-0: 2018, EN 60079-1: 2014, EN 60079-7: 2015, EN 60079-31: 2014 and EUROPEAN DIRECTIVE 2014/34/UE<br>IEC 60079-0: 2017, IEC 60079-1: 2014-06, IEC 60079-31: 2013, IEC 60079-7: 2015<br>European Directive 2004/108 Electromagnetic compatibility<br>European Directive 2012/19/UE, 2002/96/CE, 2003/108/CE WEEE<br>European Directive 2011/65/UE RoHS |   |  |  |
| <b>Degree of protection:</b>     | IP66  |   |  |  |

Ambient temperature, class. temperature, max. surface temperature:

| Old code  | Código         | (IIB+H <sub>2</sub> ) |                      | (solo per IIB)      |                      |
|-----------|----------------|-----------------------|----------------------|---------------------|----------------------|
| SLED-250  | SLED-ME-250120 | -20°C +40°C T6/85°C   | -20°C +60°C T5/100°C | -40°C +40°C T6/85°C | -40°C +60°C T5/100°C |
| SLED-401  | SLED-ME-250180 | -20°C +40°C T5/98°C   | -                    | -40°C +40°C T5/99°C | -                    |
| SLED-400  | SLED-ME-400200 | -20°C +40°C T6/85°C   | -20°C +60°C T5/100°C | -40°C +40°C T6/85°C | -40°C +60°C T5/100°C |
| SLED-601  | SLED-ME-400300 | -20°C +40°C T5/90°C   | -20°C +50°C T5/100°C | -40°C +40°C T5/90°C | -40°C +50°C T5/100°C |
| SLED-600  | SLED-ME-600300 | -20°C +40°C T6/85°C   | -20°C +60°C T5/100°C | -40°C +40°C T6/85°C | -40°C +60°C T5/100°C |
| SLED-1000 | SLED-ME-600400 | -20°C +40°C T5/93°C   | -20°C +50°C T4/103°C | -40°C +40°C T5/93°C | -40°C +50°C T4/103°C |
| SLED-1001 | SLED-ME-600500 | -20°C +40°C T6/85°C   | -20°C +55°C T5/100°C | -40°C +40°C T6/85°C | -40°C +55°C T5/100°C |



## SLED-ME series LED floodlights "square shaped beam"

SLED-ME-250120



SLED-ME-400200



SLED-ME-600300



EXEMPT FROM  
PHOTOBIOLOGICAL RISK  
(STANDARD IEC / EN 62471)



ORIGINAL PRODUCT

SLED-ME-250180



SLED-ME-400300



SLED-ME-600400 ...600500



For more information on electrical  
connectors see link:

[www.cortemgroup.com/fastex-m](http://www.cortemgroup.com/fastex-m)


### MECHANICAL FEATURES

|                              |   |
|------------------------------|---|
| <b>Body:</b>                 | Low copper content aluminium alloy fitted with cooling fins for better heat dissipation   |
| <b>Glass face:</b>           | Shock and temperature resistant tempered glass sealed with aluminium ring   |
| <b>Supporting bracket:</b>   | Galvanised steel  |
| <b>Gaskets:</b>              | Acid, hydrocarbon and high temperature resistant silicone   |
| <b>Bolts and screws:</b>     | Stainless steel   |
| <b>Entries:</b>              | 2 x ISO M20 entries (SLED-ME-250120, SLED-ME-250180);<br>(Floodlight kit with plug PLG11B and cable gland NAVS201B)<br>ISO M25 entries (SLED-ME-400200, SLED-ME-400300, SLED-ME-600300, SLED-ME-600400,<br>SLED-ME-600500)<br>(Floodlight kit with plug PLG21B and cable gland NAV251B) |
| <b>Coating:</b>              | Polyester coating Ral 7035 (Light grey)   |
| <b>Corrosion Resistance:</b> | The STANDARD of the aluminium alloy used by Cortem has passed the tests required by standards EN60068-2-30 (hot/humid cycles) and EN60068-2-11 (salt mist tests)  |

### ACCESSORIES AVAILABLE / SPECIAL REQUESTS

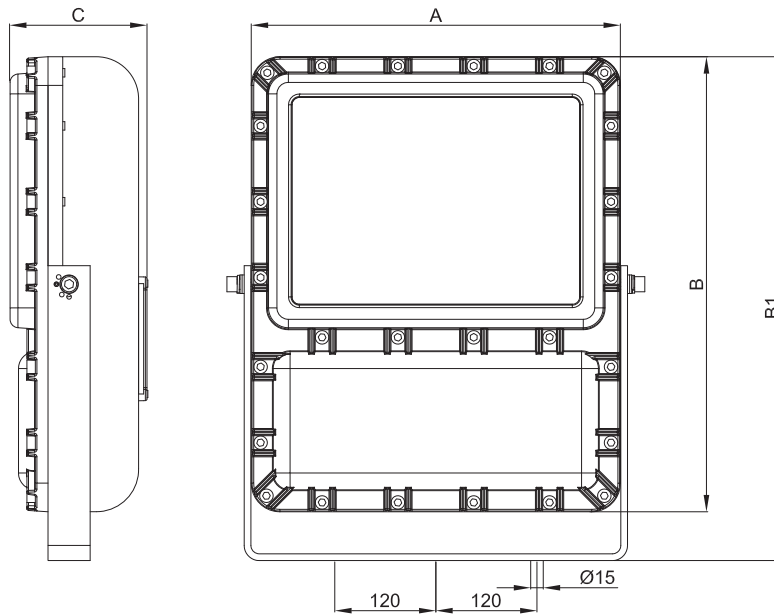
Different colour temperature (code SLED-ME-250120/**2700K**)

# SLED-ME series LED floodlights "square shaped beam"

| Code                  | Dimensions mm |     |     |     | Watt  | Class / Max surface temp. °C |          |           |          | Weight kg | mm  |
|-----------------------|---------------|-----|-----|-----|-------|------------------------------|----------|-----------|----------|-----------|--|
|                       | A             | B   | B1  | C   |       | TA=+40°C                     | TA=+50°C | TA=+55°C  | TA=+60°C |           |  |
| <b>SLED-ME-250120</b> | 310           | 360 | 460 | 135 | 122 W | T6/85°C                      | -        | -         | T5/100°C | 13,5      | 470x345x150  |
| <b>SLED-ME-250180</b> | 310           | 360 | 460 | 135 | 180 W | T5/98°C                      | -        | -         | -        | 13,5      | 470x345x150  |
| <b>SLED-ME-400200</b> | 360           | 444 | 520 | 145 | 194 W | T6/85°C                      | -        | -         | T5/100°C | 20,3      | 540x410x180  |
| <b>SLED-ME-400300</b> | 360           | 444 | 520 | 145 | 290 W | T5/90°C                      | T5/100°C | -         | -        | 20,3      | 540x410x180  |
| <b>SLED-ME-600300</b> | 440           | 540 | 600 | 165 | 290 W | T6/85°C                      | -        | -         | T5/100°C | 32,4      | 600x465x180  |
| <b>SLED-ME-600400</b> | 440           | 540 | 600 | 165 | 400 W | T5/93°C                      | T4/103°C | -         | -        | 32,4      | 600x465x180  |
| <b>SLED-ME-600500</b> | 440           | 540 | 600 | 165 | 500 W | T6/85°C                      | T5/95°C  | T5/T100°C | -        | 32,4      | 600x465x180  |

Zona 1, 2, 21, 22

## DIMENSIONAL DRAWING

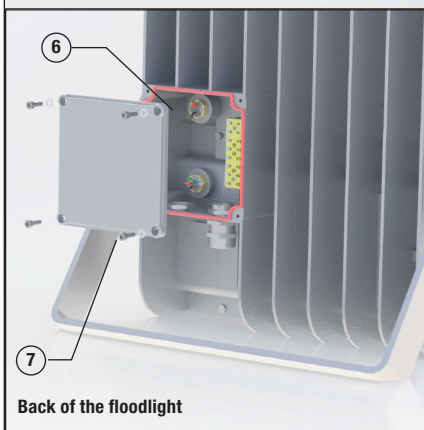


Dimensions in mm

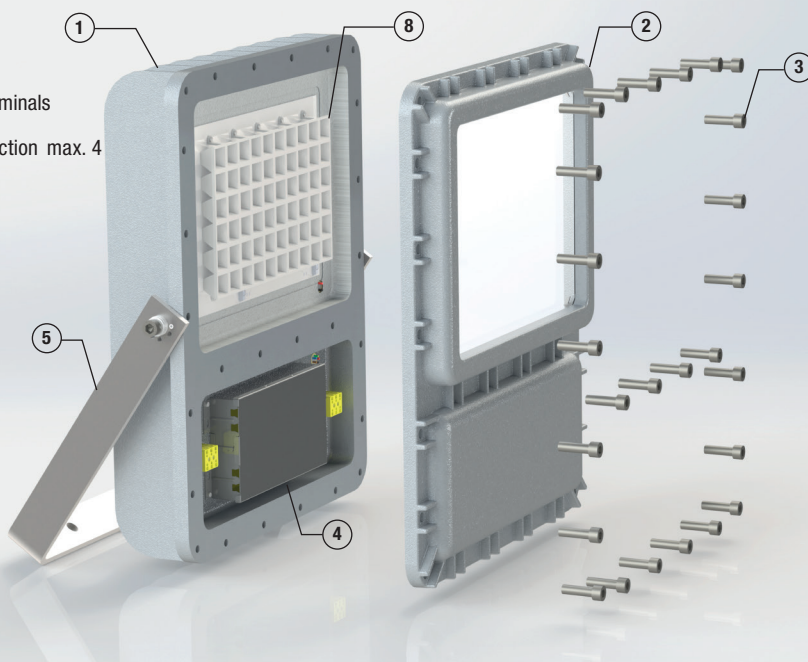
## EXPLODED DIAGRAM OF SLED-ME-600300 FLOODLIGHT

### Descriptions:

1. Body including optics and LED board
2. Cover with tempered glass
3. UNI5931 stainless steel screws
4. 'Ex e' housing complete with power supply and terminals
5. Mounting bracket
6. 'Ex e' housing complete with terminals L, N, PE, Section max. 4 mm<sup>2</sup>, suitable for loop-in, loop-out
7. Cover equipped with captive screws
8. Reflector optics



Back of the floodlight

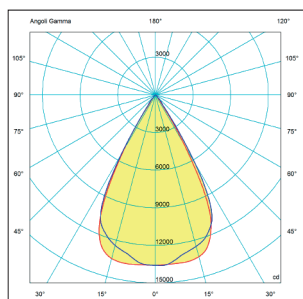


## SLED-ME series LED floodlights "square shaped beam"

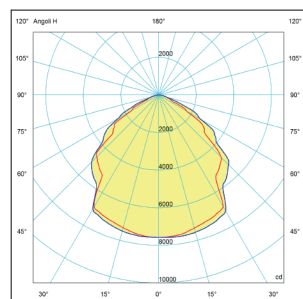
| Electrical features                  | SLED-ME-250120   | SLED-ME-250180        | SLED-ME-400200        |
|--------------------------------------|--|-----------------------|-----------------------|
| Power supply:                        | 100-277 Vac $\pm$ 10%  | 120-277 Vac $\pm$ 10% | 120-277 Vac $\pm$ 10% |
| Rated frequency:                     | 50-60 Hz $\pm$ 5%  | 50-60 Hz $\pm$ 5%     | 50-60 Hz $\pm$ 5%     |
| Power consumption*:                  | 122 W  | 180 W                 | 194 W                 |
| Connection:                          | Direct connection to terminal board L, N, Pe. Section 4mm <sup>2</sup> , suitable for loop-in/loop-out |                       |                       |
| Power factor*:                       | >0,95  | >0,98                 | >0,96                 |
| Rated current*:                      | 559 mA   | 798 mA                | 877 mA                |
| EMC (electromagnetic compatibility): | EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-...                                      |                       |                       |
| THD (total harmonic distortion):     | <15% 100-277 Vac   | <10% 220-240 Vac      | <20% 120-277 Vac      |
| Over-voltage protection:             | 2 kV   | 6-10 kV               | 4 kV                  |
| Driver performances:                 | Over-Voltage protection, Over-Current protection, Short-Circuit protection                             |                       |                       |
| Dimmer (on request):                 | (0-10 V) o PWM   | (0-10 V) o PWM        | (0-10 V)              |
| Photometric features                 |  |                       |                       |
| Viewing angle:                       | Cree   | Cree                  | Cree                  |
| LED:                                 | 60°  | 98°                   | 60°                   |
| Type:                                | Cool White   | Cool White            | Cool White            |
| Colour temperature:                  | ~ 5700 K   | ~ 5700 K              | ~ 5700 K              |
| CRI**:                               | >70  | >70                   | >70                   |
| Instant Restrike:                    | YES  | YES                   | YES                   |
| L80:                                 | > 72600 h  | > 72600 h             | > 72600 h             |
| <b>Lumen:</b>                        | <b>12387 lm</b>  | <b>18490 lm</b>       | <b>20744 lm</b>       |
| <b>Maximum light intensity:</b>      | <b>5206 cd</b>   | <b>7600 cd</b>        | <b>23491 cd</b>       |
| <b>Overall efficiency:</b>           | <b>101 lm/W</b>  | <b>102 lm/W</b>       | <b>107 lm/W</b>       |

\* Test at 230Vac

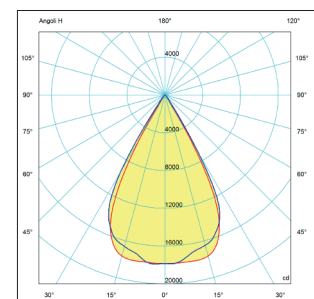
\*\* Different CRI on request



**SLED-ME-250120**  
Luminous flux: 12387 lm



**SLED-ME-250180**  
Luminous flux: 18490 lm



**SLED-ME-400200**  
Luminous flux: 20744 lm

On Cortem Group web site you can download .LDT and .IES lighting data files for the design and simulation of lighting levels in 2D and 3D, rendering and ray tracing.

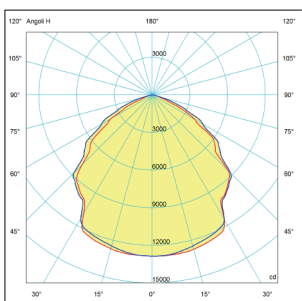
— = plane 90270  
— = plane 0180

# SLED-ME series LED floodlights "square shaped beam"

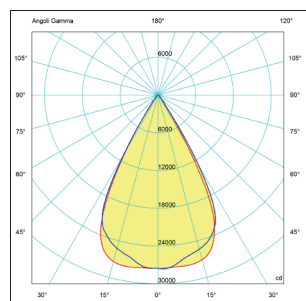
| Electrical features                  | SLED-ME-400300   | SLED-ME-600300   | SLED-ME-600400   | SLED-ME-600500   |
|--------------------------------------|--|------------------|------------------|------------------|
| Power supply:                        | 120-277 Vac ±10%   | 120-277 Vac ±10% | 120-277 Vac ±10% | 100-240 Vac ±10% |
| Rated frequency:                     | 50-60 Hz ±5%   | 50-60 Hz ±5%     | 50-60 Hz ±5%     | 50-60 Hz ±5%     |
| Power consumption*:                  | 290 W  | 290 W            | 400 W            | 500 W            |
| Connection:                          | Direct connection to terminal board L, N, Pe. Section 4mm <sup>2</sup> , suitable for loop-in/loop-out |                  |                  |                  |
| Power factor*:                       | >0,98  | >0,97            | >0,97            | >0,96            |
| Rated current*:                      | 1281 mA  | 1303 mA          | 1793 mA          | 2277 mA          |
| EMC (electromagnetic compatibility): | EN 55015, EN 61547, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-...                                      |                  |                  |                  |
| THD (total harmonic distortion):     | <10% 220-240 Vac   | <20% 120-277 Vac | <20% 120-277 Vac | <10% 220-240 Vac |
| Over-voltage protection:             | 6-10 kV  | 4 kV             | 2-4 kV           | 6-10 kV          |
| Driver performances:                 | Over-Voltage protection, Over-Current protection, Short-Circuit protection                             |                  |                  |                  |
| Dimmer (on request):                 | (0-10 V) / PWM   | (0-10 V)         | (0-10 V) / PWM   | (0-10 V) / PWM   |
| Photometric features                 |  |                  |                  |                  |
| Viewing angle:                       | Cree   | Cree             | Cree             | Cree             |
| LED:                                 | 100°   | 60°              | 105°             | 110°             |
| Type:                                | Cool White   | Cool White       | Cool White       | Cool White       |
| Colour temperature:                  | ~ 5700 K   | ~ 5700 K         | ~ 5700 K         | ~ 5000 K         |
| CRI**:                               | >70  | >70              | >70              | >70              |
| Instant Restrike:                    | YES  | YES              | YES              | YES              |
| L80*:                                | > 72600 h  | > 72600 h        | > 72600 h        | > 118000         |
| <b>Lumen:</b>                        | <b>32092 lm</b>  | <b>30799 lm</b>  | <b>46145 lm</b>  | <b>58045 lm</b>  |
| <b>Maximum light intensity:</b>      | <b>12899 cd</b>  | <b>33976 cd</b>  | <b>16600 cd</b>  | <b>22360 cd</b>  |
| <b>Overall efficiency:</b>           | <b>110 lm/W</b>  | <b>106 lm/W</b>  | <b>115 lm/W</b>  | <b>117 lm/W</b>  |

\* Test at 230Vac

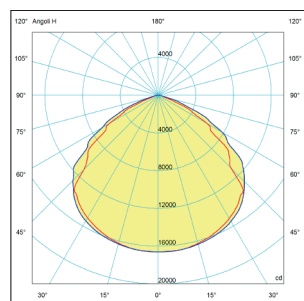
\*\* Different CRI on request



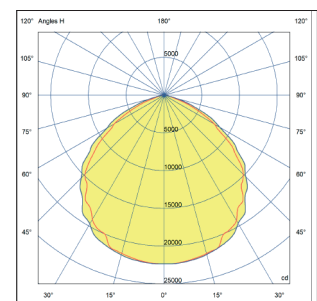
**SLED-ME-400300**  
Luminous flux: 32092 lm



**SLED-ME-600300**  
Luminous flux: 30799 lm



**SLED-ME-600400**  
Luminous flux: 46145 lm



**SLED-ME-600500**  
Luminous flux: 58045 lm

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— = plane 90270  
— = plane 0180

## SLED-ME series Accessories and spare parts available on request

| ILLUSTRATION  | DESCRIPTION   | MODEL  | FEATURES   | CODE                | KEY   |
|---|---|--|--|---------------------|---|
|    | Reinforced supporting bracket for mounting on movement facilities | SLED-ME-600...                                     | Material: galvanised steel                             | G-558/1             |   |
|    | Frame for pole mounting   | Per tutti i modelli                                | Material: galvanised steel                             | G-0534              |   |
|    | Swivel base for 360° adjustment                                   | SLED-ME-400...<br>SLED-ME-600...                   | Material: aluminum RAL 7035 painted                    | G-326<br>+<br>G-327 |   |
|   | Cable gland for nonarmored cables                                 | SLED-ME-250...                                     | std. range cable 6,3÷11,6                              | NAV20SIB            |   |
|   |   | SLED-ME-400...<br>SLED-ME-600...                   | std. range cable 11÷20                                 | NAV25IB             |   |
|  | Front ring with glass   | SLED-ME-250...                                     | Low copper content aluminium alloy with tempered glass | G250-0622           |    |
|   |   | SLED-ME-400...                                     |  | G400-0622           |   |
|   |   | SLED-ME-600...                                     |  | G-0622              |   |
|  | Supporting bracket  | SLED-ME-250...                                     | Material: galvanised steel                             | G-901               |    |
|   |   | SLED-ME-400...                                     |  | G-896               |   |
|   |   | SLED-ME-600...                                     |  | G-558               |   |
|  | Optics  | SLED-ME-250120<br>SLED-ME-400200<br>SLED-ME-600300 | Material: polycarbonate                                | PIXEL12             |    |
|  | Alimentador electrónico   | SLED-ME-250120                                     | 100-277 Vac  | LEDDEV100           |    |
|   |   | SLED-ME-400200                                     | 120-277 Vac  | LEDDSLED-ME600      |   |
|   |   | SLED-ME-600300                                     | 120-277 Vac  | LEDDSLED-ME600      |   |
|   |   | SLED-ME-250180                                     | 120-277 Vac  | LEDDSLED-ME401      |   |
|   |   | SLED-ME-400300                                     | 120-277 Vac  | LEDDSLED-ME601      |   |
|   |   | SLED-ME-600400                                     | 120-277 Vac  | LEDDEV100 (x2)      |   |
|   |   | SLED-ME-600500                                     | 100-277 Vac  | LEDDSLED-ME1001     |   |

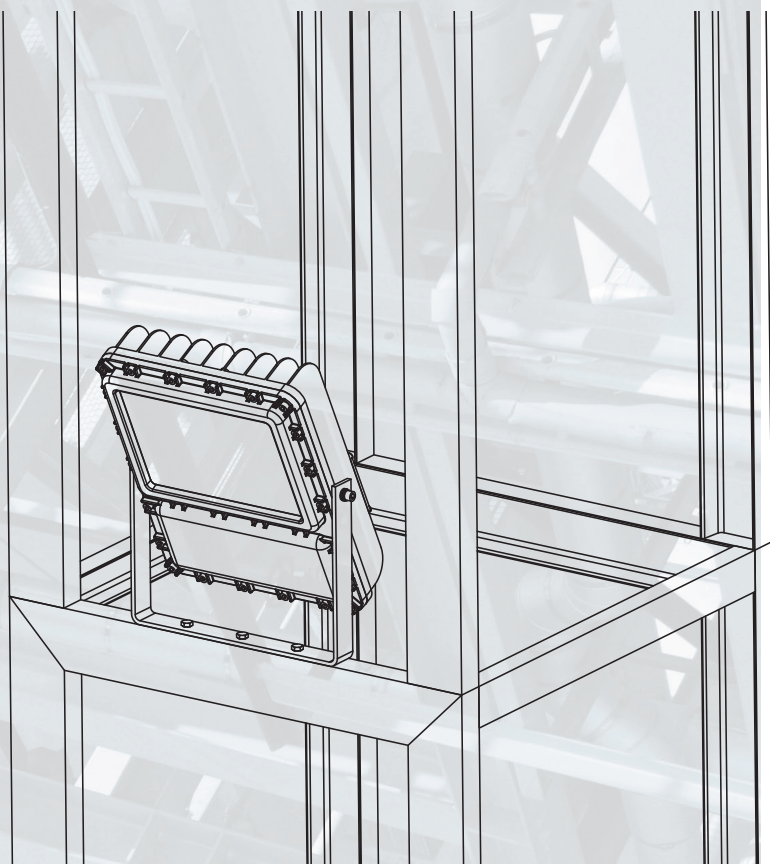


## Installation and mounting methods SLED-ME series

Example of pole mounting



Example of vertical mounting on structure



Example of horizontal mounting on structure

