

## Compact Sheet-Steel Emergency Light Fitting Series 6118 (Zone 1) Series 6518 (Zones 2, 21, 22)

- Versions
  - 6118 for use zone 1
  - 6518 for use in zones 2, 21 and 22
- Electronic ballast and integral emergency light unit
- For continuous emergency operation 1,5 h
- Operation modes
  - Maintained operation
  - Maintained operation with switchable emergency light blocking
  - Non-maintained operation
- With weekly functional test
- With automatic emergency light duration test
- With discharge protection and charging voltage limiting
- With intelligent charging technology
- For fluorescent lamps 8 W
- Central lock
- Housing in powder-coated sheet-steel or in stainless steel
- Glass cover can be fitted with emergency exit signs to order



02117e00

Series 6118 (Zone 1) and 6518 (Zones 2, 21 and 22) compact emergency light fittings in sheet-steel can be used for safety illumination, especially in spraying and painting installations as well as in clean rooms.

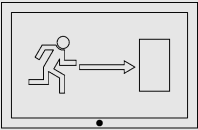
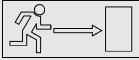
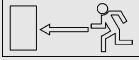
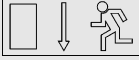
STAHL

# Zones 1 & 2, 21 & 22

# Compact Sheet-Steel Emergency Light Fitting

## Series 6118 (Zone 1)

## Series 6518 (Zones 2, 21, 22)

| Selection table                             |   |             |              |                          |                                  |        |
|---|---|-------------|--------------|--------------------------|----------------------------------|--------|
| Version                                     | Series  | Lamps       | Battery      | Emergency light duration | Ordering code                    | Weight |
|   |   |             |              |                          |                                  | kg     |
| 6118<br>for use in Zone 1                   | Pendant light fitting   | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6118/5081-80.7-12.0-...-1</b> | 7,330  |
|   | Wall-mounting light fitting   | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6118/6081-80.7-12.0-...-1</b> | 7,730  |
|   | Recessed light fitting  | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6118/7081-80.7-12.0-...-1</b> | 7,790  |
| 6518<br>for use in<br>Zones<br>2; 21 and 22 | Pendant light fitting   | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6518/5081-80.7-12.0-...-1</b> | 7,330  |
|   | Wall-mounting light fitting   | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6518/6081-80.7-12.0-...-1</b> | 7,730  |
|   | Recessed light fitting  | 1 x 8 W     | 4 Ah / 3,6 V | 1,5 h                    | <b>6518/7081-80.7-12.0-...-1</b> | 7,790  |
| Add. to ordering code                       |   |             |              |                          |                                  |        |
| Cable entries                               | Standard:<br>1 x cable gland M25 x 1,5<br>2 x plug M25 x 1,5  |             |              |                          | <b>6.18/.....1.....</b>          |        |
|   | Special:<br>Specify non-standard entries in writing   |             |              |                          | <b>6.18/.....9.....</b>          |        |
| Number of terminals                         | with 4 terminals  |             |              |                          | <b>6.18/.....4.....</b>          |        |
|   | with 6 terminals  |             |              |                          | <b>6.18/.....6.....</b>          |        |
| Material                                    | Standard Shett-steel, powder-coated<br>-> no specification required   |             |              |                          |                                  |        |
|   | Special Stainless steel 1.4301 (AISI 316Ti)<br>-> state with order  |             |              |                          |                                  |        |
| Emergency exit signs                        | Needed only when used as information lights or escape sign lights;<br>with adhesive symbols positioned as follows:<br><br>Mounting position<br>Standard   |             |              |                          |                                  |        |
|   | <br>A<br>09035e00  |             |              |                          |                                  |        |
|   | Special Please state other positions in writing<br>Please specify emergency exit sign number<br>Symbols complying with VBG 125, DIN 4844, DIN 5035;<br>recognition distance e: 45 m; size: 395 x 235 mm |             |              |                          |                                  |        |
|   | Illustration  | Description | Colour       | Sign Background          |                                  |        |
|   | <br>08482e00   | white       | green        |                          | <b>6.18/.....-17-</b>            |        |
|   | <br>08482e00   | white       | green        |                          | <b>6.18/.....-19-</b>            |        |
|   | <br>08484e00   | white       | green        |                          | <b>6.18/.....-30-</b>            |        |

### Note

The light fittings are supplied without lamps and mounting material. These must be ordered separately.  
Further escape and information signs available on request.  
Wall-mounting brackets must be ordered separately.

# Compact Sheet-Steel Emergency Light Fitting

## Series 6118 (Zone 1)

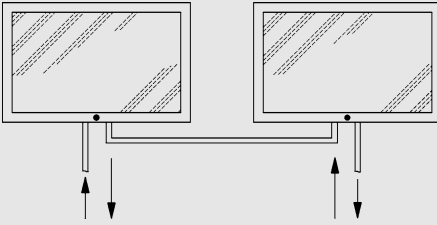
## Series 6518 (Zones 2, 21, 22)



| Technical Data               |   |   |
|------------------------------|---|---|
|                              | 6118 (Zone 1)   | 6518 (Zones 2, 21, 22)  |
| Version                      |   |   |
| Explosion protection         |   |   |
| Gas explosion protection     | ⊕ II 2G EEx edm IIC T4  | ⊕ II 3G EEx n A II T4 (Zone 2)  |
| Dust explosion protection    | --  | ⊕ II 2D IP 65 T80 °C (Zones 21 / 22)  |
| Certificates                 |   |   |
| Gas explosion protection     | PTB Nr. 99 ATEX 2201  | applied for / Supplier's Declaration  |
| Dust explosion protection    | --  | applied for / Supplier's Declaration  |
| Marking                      | CE 0102   |   |
| Lamps                        | 1 x 8 W; Two pin fluorescent lamps, 8W, 16 mm diameter, for G5 holder   |   |
| Ballast                      | Electronic ballast, single channel with integral emergency light electronics  |   |
| Rated voltage                | AC: 220 V - 10 % ... 254 V + 6%; 50 / 60 Hz   |   |
| Rated current                | 0,15 A  |   |
| Back-up fuse for battery set | 4 A, equipment fuse 8560/51   |   |
| Ambient temperature          |   |   |
| Charging                     | - 5 °C ... + 50 °C  |   |
| Lighting operation           | - 20 °C ... + 50 °C   |   |
| Material                     |   |   |
| Housing                      | Standard: Sheet-steel, powder coated, colour similar to RAL 9016<br>Special: Stainless steel  |   |
| Lens                         | Safety glass  |   |
| Gasket                       | EPDM formed gasket  |   |
| Protection class             | I (with internal PE connection terminal)  |   |
| Degree of protection         | IP 65   |   |
| Central lock                 | central locking using screw driver; glass cover hinged for access   |   |
| Light guides                 | Reflector, painted white  |   |
| Connections                  | Terminal block (Line-up terminals)<br>marking L; N; PE; L <sup>1</sup> (L <sup>1</sup> = charging phase)<br>charging phase must be connected at all time<br>Terminal size<br>2 x 4 mm <sup>2</sup> , for solid cores<br>2 x 2,5 mm <sup>2</sup> , for flexible cores  |   |
| Switch-off                   | Of light fitting on opening<br>Central locking device with safety interlock;<br>switch 8080 with NC contacts with positive opening operation;<br>on opening central lock, voltage to ballast, charging phase and battery set is disconnected<br>Of faulty lamp<br>if lamp is faulty, power supply is automatically switched off by the electronic ballast | Of light fitting on opening<br>Central locking device without safety interlock;<br>on opening central lock, voltage to ballast, charging phase and battery set is not disconnected<br>Of faulty lamp<br>if lamp is faulty, power supply is automatically switched off by the electronic ballast |
| Cable entries                | Standard: 1 cable gland 8161 in plastic M25 x 1,5 and 2 plug 8290 in plastic, M25 x 1,5   |  <p>09036e00</p>  |
|                              | Special: other cable entries in plastic or metal on request   |   |
| Installation notes           |   |   |

## Compact Sheet-Steel Emergency Light Fitting Series 6118 (Zone 1) Series 6518 (Zones 2, 21, 22)

### Technical Data

| Mounting                                     | <p><b>Pendant light fitting</b><br/>Light fitting top has two M 8 threaded rivets which allow use of different mounting parts, e. g. ring bolts.</p> <p><b>Wall-mounting light fitting</b><br/>Each small end is fitted with one M12 threaded bolt. The light fitting is hooked-in by these bolts to the mounting brackets and secured by lock nuts. The light fitting's angle of inclination is infinitely variable.</p> <p><b>Recessed light fitting</b><br/>Mounting frames with fixing holes are welded-on. Light fitting is inserted into ceiling cutout and fixed via mounting frame. The frames are flush with the glass cover.</p>   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|--|--|---|------------|----------|-------|----|---|----------|---|----------|--------------------------------------|-----|----|---|----------|--|----------|------------------------|
| Looping through of cables                    | <p>There are 2 free terminals assembled in the light fitting for looping through of cables</p>  <p style="text-align: right; font-size: small;">09037e00</p>  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Emergency light electronics                  |  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Options                                      | Emergency lighting electronics are available:<br>In maintained operation or maintained operation with switchable emergency lighting blocking or in non maintained operation  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Interference suppression                     | acc. to DIN EN 55015   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Test function                                |  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Operating test                               | weekly test of emergency light function; battery and lamp faults are recognized and indicated via red LED  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Emergency light duration test                | Testing of battery capacity at intervals of 3 months; operating of fitting in emergency light mode for 2.3rd of rated operating time. If the fitting switches off by the discharge protection before time has elapsed. Battery cannot be used longer for emergency operation. Fault is indicated via red LED.  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Function indicators                          | 1 LED red and 1 LED green, incorporated in reflector; can be seen from outside through cover   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|  | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>LED</th> <th>Indication</th> <th>Function</th> </tr> </thead> <tbody> <tr> <td rowspan="3">Green</td> <td>On</td> <td>Charging current flowing; everything ok</td> </tr> <tr> <td>Blinking</td> <td>1:1 Emergency light duration test running</td> </tr> <tr> <td>Flashing</td> <td>1:10 Automatic function test running</td> </tr> <tr> <td rowspan="3">Red</td> <td>On</td> <td>Rechargeable battery capacity insufficient<br/>battery replacement necessary</td> </tr> <tr> <td>Blinking</td> <td>1:1 Battery discharged;<br/>not operational</td> </tr> <tr> <td>Flashing</td> <td>1:10 Battery defective</td> </tr> </tbody> </table> | LED   | Indication | Function | Green | On | Charging current flowing; everything ok | Blinking | 1:1 Emergency light duration test running | Flashing | 1:10 Automatic function test running | Red | On | Rechargeable battery capacity insufficient<br>battery replacement necessary | Blinking | 1:1 Battery discharged;<br>not operational | Flashing | 1:10 Battery defective |
| LED  | Indication   | Function  |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Green  | On   | Charging current flowing; everything ok                                     |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|  | Blinking   | 1:1 Emergency light duration test running                                   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|  | Flashing   | 1:10 Automatic function test running  |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Red  | On   | Rechargeable battery capacity insufficient<br>battery replacement necessary |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|  | Blinking   | 1:1 Battery discharged;<br>not operational                                  |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
|  | Flashing   | 1:10 Battery defective  |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Battery charging                             | current-regulated constant current charging; duration 20 h, then changeover to trickle charging  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Deep discharge protection                    | at $U_{\text{Batt}} = 1 \text{ V/cell}$ (3 V); emergencylight electronics automatically switches light off (DIN VDE 0108)  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Charging voltage limit                       | when a battery voltage of 1,55 V / cell (4,65 V) is reached, charging ceases   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Emergency light duration                     | 1,5 h  |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Changeover voltage                           | from mains to battery operation at $U < 0,6 \times U_N$<br>from battery to mains operation at $U > 0,9 \times U_N$   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |
| Light power during emergency light operation | 70 %   |   |            |          |       |    |   |          |   |          |                                      |     |    |   |          |  |          |                        |



# Compact Sheet-Steel Emergency Light Fitting

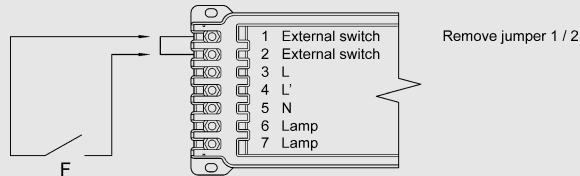
## Series 6118 (Zone 1)

## Series 6518 (Zones 2, 21, 22)

### Technical Data

#### Operation modes

On delivery light fitting is wired for maintained operation; by removing the jumper between terminals 1 and 2 and connecting external switch F, the fitting is converted to maintained operation with switchable emergency lighting.



09373e02

#### Functions

##### Maintained operation

On failure of supply to general lighting, fitting is supplied from the battery, irrespective of the light switch position

##### Maintained operation with switchable emergency lighting

On failure of power supply to general lighting, fitting switches to emergency lighting operation only if external switch F is closed. To switch emergency lighting centrally to „Ready“ or „Not ready“, e. g. depending on plant operation times. The external switch has a potential-free NO contact.

##### Non-maintained operation

Emergency lighting is only operative when general lighting has failed; it is then supplied from the battery. Connections: L'; N; PE (phase L is not connected)

#### Battery set

##### Type

NiCd-battery, gas tight

##### Capacity

4 Ah

##### Operating voltage

3,6 V

##### Charging battery set

When central lock is opened battery set is de-energized; it can be removed from the housing by unplugging its removable contact

#### Emergency exit signs

##### Use

For information and escape sign fitting

##### Material

Foil, self-adhesive, printed with various pictograms in different colours

##### Mounting

Foil is stuck to cover externally

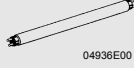
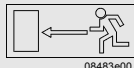

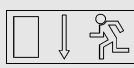




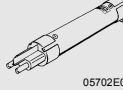

##### Recognition distance

e = 45 m

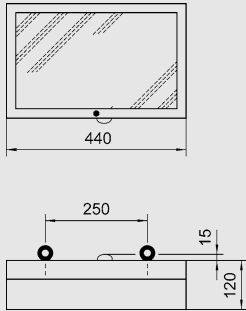
## Compact Sheet-Steel Emergency Light Fitting

### Series 6118 (Zone 1)

### Series 6518 (Zones 2, 21, 22)

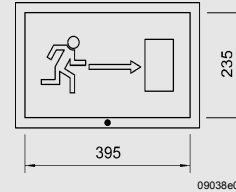
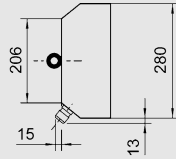
| Accessories and spare parts |   |  |                       |  |          | Ordering code     | Weight<br>kg |
|-----------------------------|---|--|-----------------------|--|----------|-------------------|--------------|
| Designation                 | Illustration  | Description  |                       |  |          |                   |              |
| Fluorescent lamps           | <br>04936E00   | Colour of light<br>cool white  | Light flux<br>450 lm  |  | 10 pc    | <b>6100801210</b> | 0,300        |
| Emergency exit sign         |   | Adhesive foil, to stick on the glass cover<br>Size: 395 x 235 mm<br>Recognition distance: e = 45 m |                       |  |          |                   |              |
|                             | <br>08483e00   | Colours<br>Sign<br>Background  | white<br>green        |  | 1 pc.    | <b>5206190</b>    | 0,010        |
|                             | <br>08482e00   | Colours<br>Sign<br>Background  | white<br>green        |  | 1 pc.    | <b>5206170</b>    | 0,010        |
|                             | <br>08484e00   | Colours<br>Sign<br>Background  | white<br>green        |  | 1 pc.    | <b>5206300</b>    | 0,010        |
| Wall-mounting bracket       | <br>05375E00  | Material:<br>For light fittings width:   | Sheet steel<br>280 mm |  | 1 pair   | <b>4617180</b>    | 1,000        |
| Ring bolts                  | <br>05378E00 | M 8, to mount directly into inserts, 1 pair  |                       |  |          | <b>6000803900</b> | 0,100        |
| Switch                      | <br>05651E00 | Switch element 8080/1-3-L, 2 NC  |                       |  |          | <b>8080006600</b> | 0,025        |
| Fuse                        | <br>05736E00 | to protect battery circuit   |                       |  | 4 A 1 pc | <b>8560018010</b> | 0,035        |
| Battery set                 | <br>05702E00 | NiCd-battery   | 4 Ah / 3,6 V          |  | 1 pc     | <b>6044804740</b> | 0,417        |
| Breathing gland             | <br>05703E00 | for ventilating and draining M 25 x 1.5  |                       |  |          | <b>6000803960</b> | 0,010        |

Dimension drawings (all dimensions in mm) - subject to alterations



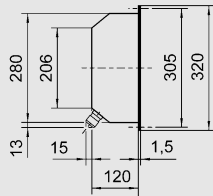
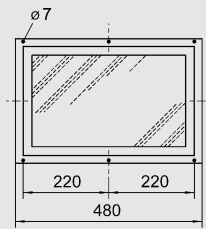
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Pendant light fitting



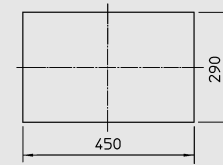
09038e00

Emergency exit sign



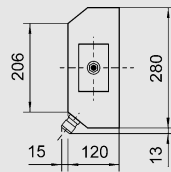
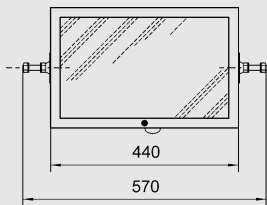
04724e00

Recessed light fitting



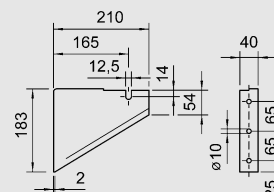
09675E00

Mounting cut-out



04723e00

Wall-mounting light fitting



04601e00

Wall-mounting bracket

Compact sheet-steel emergency light fitting 6118 and 6518

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice. The illustrations cannot be considered binding.

