

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



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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.

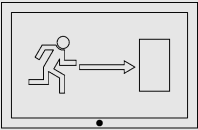
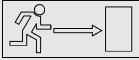
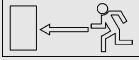
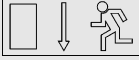
STAHL

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

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)

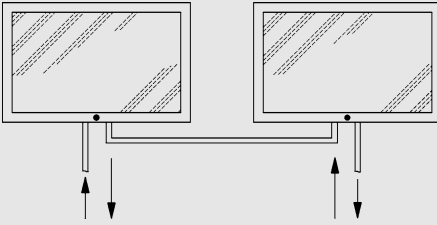
Series 6518 (Zones 2, 21, 22)



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 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) marking L; N; PE; L ¹ (L ¹ = charging phase) charging phase must be connected at all time Terminal size 2 x 4 mm ² , for solid cores 2 x 2,5 mm ² , for flexible cores	
Switch-off	Of light fitting on opening Central locking device with safety interlock; switch 8080 with NC contacts with positive opening operation; on opening central lock, voltage to ballast, charging phase and battery set is disconnected Of faulty lamp if lamp is faulty, power supply is automatically switched off by the electronic ballast	Of light fitting on opening Central locking device without safety interlock; on opening central lock, voltage to ballast, charging phase and battery set is not disconnected Of faulty lamp 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>Pendant light fitting Light fitting top has two M 8 threaded rivets which allow use of different mounting parts, e. g. ring bolts.</p> <p>Wall-mounting light fitting 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>Recessed light fitting 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: 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 battery replacement necessary</td> </tr> <tr> <td>Blinking</td> <td>1:1 Battery discharged; 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 battery replacement necessary	Blinking	1:1 Battery discharged; not operational	Flashing	1:10 Battery defective
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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 $U < 0,6 \times U_N$ 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

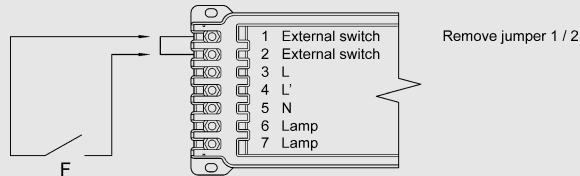
Series 6118 (Zone 1)

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.



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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

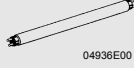
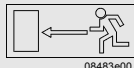

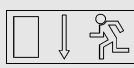




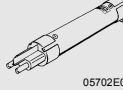

Recognition distance

e = 45 m

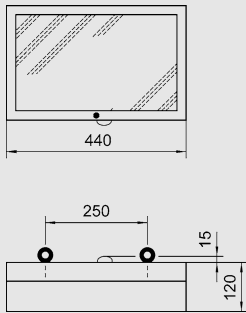
Compact Sheet-Steel Emergency Light Fitting

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Series 6518 (Zones 2, 21, 22)

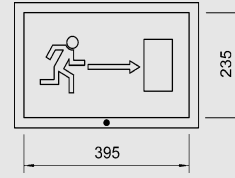
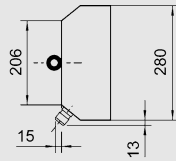
Accessories and spare parts						Ordering code	Weight kg
Designation	Illustration	Description					
Fluorescent lamps	 04936E00	Colour of light cool white	Light flux 450 lm		10 pc	6100801210	0,300
Emergency exit sign		Adhesive foil, to stick on the glass cover Size: 395 x 235 mm Recognition distance: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

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



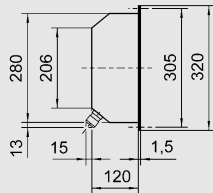
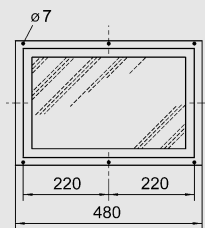
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Pendant light fitting



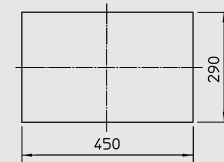
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Emergency exit sign



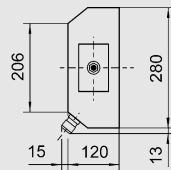
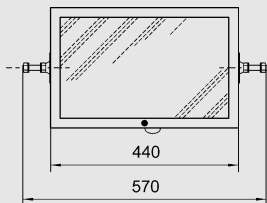
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Recessed light fitting



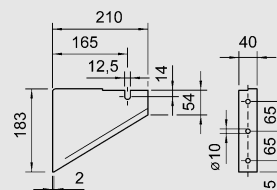
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Mounting cut-out



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.

