

## Compact Emergency Light Fittings

**C-LUX 6108 (Zone 1, 21 & 22)**

**C-LUX 6508 (Zones 2, 22)**

- With electronic ballast and integratal emergency light electronics
- For continuous emergency operation 1.5 h
- Operating modes
  - non-maintained operation
  - non-maintained operation with switchable emergency light blocking
- With self-test functions
- Intelligent charging technique
- With deep discharge protection and charging voltage limitation
- For fluorescent lamps 8 W,  $\varnothing$  16 mm, for two-pin holder G5
- Suitable for wall and ceiling mounting
- Can be fitted to order with emergency exit signs
- Central locking
- All-pole disconnection by N/C switch when cover is opened (Series 6108)
- Housing in polyester resin; cover in polycarbonate

STAHL

Series C-LUX 6108 and 6508 compact emergency lighting fitting can be used for safety illumination, but also as information or emergency exit sign lights.

# Zones 1 & 2, 21 & 22

# Compact Emergency Light Fittings

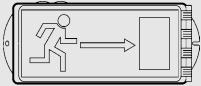
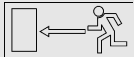
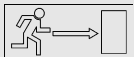





## C-LUX 6108 (Zone 1, 21 & 22)

## C-LUX 6508 (Zones 2, 22)

### Selection table

Version	Lamps	Emergency light duration test	Battery capacity	Emergency light operation time	Ordering code	Weight
			Ah	h		kg
C-LUX 6108 for Zones 1, 21 & 22	1 x 8 W	with	4	1.5	6108/1081-80.7-..	3,500
	1 x 8 W	without	4	1.5	6108/1081-80.8-..	3,500
C-LUX 6508 for Zones 2, 22	1 x 8 W	with	4	1.5	6508/1081-80.7-..	3,500
	1 x 8 W	without	4	1.5	6508/1081-80.8-..	3,500

### Add. to ordering code

Cable entries	Standard: 1 x Cable gland M 25 x 1.5 2 x Plugs M 25 x 1.5				6108/.....1-..	
	Special: Specify non-standard entries in writing				6108/.....9-..	
Emergency exit sign	needed only when used as information lights or escape sign lights; With adhesive symbols positioned as follows:					
	Mounting position					
	Standard			A		08481E00
	Special	please specify other positions in writing				
	<b>Please specify emergency exit sign number (see below)</b>					
	Symbol complying with VGB 125, DIN 4844, DIN 5035; recognition distance e = 30 m; size 150 mm x 355 mm					
		Colours	Sign Background	white green	6108/.....-60	
	<small>08483e00</small>					
		Colours	Sign Background	white green	6108/.....-61	
	<small>08482e00</small>					
		Colours	Sign Background	white green	6108/.....-62	
	<small>08485e00</small>					
		Colours	Sign Background	white green	6108/.....-91	
	<small>08485e00</small>					
		Colours	Sign Background	green white	6108/.....-71	
	<small>08485e00</small>					
		Colours	Sign Background	red white	6108/.....-81	
	<small>08485e00</small>					
		Colours	Sign Background	white green	6108/.....-92	
	<small>08486e00</small>					











## Compact Emergency Light Fittings

### C-LUX 6108 (Zone 1, 21 & 22)

### C-LUX 6508 (Zones 2, 22)

#### Add. to ordering code

Emergency exit sign		Colours	Sign Background	green white	<b>6108 / ..... -72</b>
	08486e00				
		Colours	Sign Background	red white	<b>6108 / ..... -82</b>
	08486e00				
		Colours	Sign Background	white green	<b>6108 / ..... -90</b>
	08487e00				
		Colours	Sign Background	green white	<b>6108 / ..... -70</b>
	08487e00				
		Colours	Sign Background	red white	<b>6108 / ..... -80</b>
	08487e00				
		Colours	Sign Background	white green	<b>6108 / ..... -93</b>
	08488e00				
		Colours	Sign Background	green white	<b>6108 / ..... -73</b>
	08488e00				
		Colours	Sign Background	red white	<b>6108 / ..... -83</b>
	08488e00				

Note The light fittings are supplied without tubes and mounting material. These accessories must be ordered separately.

#### Technical Data

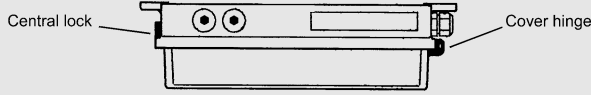
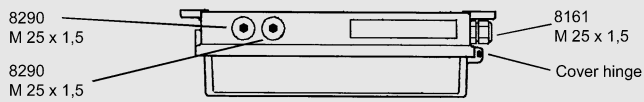
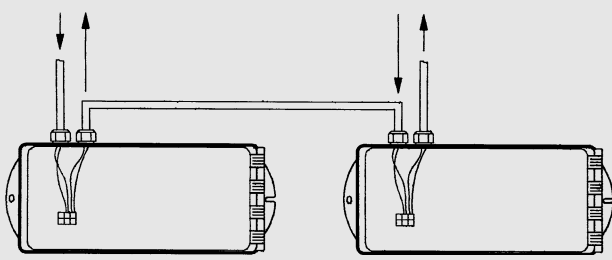
Version	6108 (Zones 2, 21, 22)	6508 (Zones 2, 22)
Explosion protection		
Gas explosion protection	⊕ II 2 G EEx edm IIC T4	⊕ II 3 G EEx nA II T4 (Zone 2)
Dust explosion protection	for Zones 21 and 22: ⊕ II 2 D IP 66 T75 °C	for Zone 22: ⊕ II 3 D IP 66 T75 °C
Certificates		
Gas explosion protection	PTB 97 ATEX 2161	ASEV 99.1 10381.01
Dust explosion protection	SEV 05 ATEX 0125	SEV 05 ATEX 0125
Marking	CE 0102	
Lamps	1 x 8 W; two-pin fluorescent lamps, 8 W, 16 mm dia., for G5 holder	
Ballast	Electronic ballast, single channel with integral emergency light electronics	
Rated voltage	AC: 220 V - 10 % ... 254 V + 6 %; 50 Hz / 60 Hz	
Rated current	0.15	
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	glass fibre reinforced polyester resin; colour: white, similar to RAL 9010	
Cover	Polycarbonate	
Gaskets	Polyurethane; foamed into cover	

# Compact Emergency Light Fittings

## C-LUX 6108 (Zone 1, 21 & 22)

## C-LUX 6508 (Zones 2, 22)



Technical Data	
Protection class	I (with internal PE connection terminal)
Degree of protection	IP 66 / IP 67
Cover fixing	Central locking using socket spanner M 8 / SW 13; cover hinged for access
	 <p style="text-align: right;">08478E02</p>
Disconnection	
Version	6108 (Zones 2, 21, 22)   6508 (Zones 2, 22)
of light fitting on opening	<p>6108 (Zones 2, 21, 22): Central locking device with safety interlock; switch 8080 with N/C contacts; when central lock is opened, voltage to ballast is disconnected on both poles; a safety interlock in switching mechanism prevents fitting from being reconnected while cover and central lock are open.</p> <p>6508 (Zones 2, 22): No switching-off when opening light fitting</p>
Faulty lamp	If lamp is faulty power supply is automatically switched off by electronic ballast
Connection	
Terminal block	in Polyamide with terminal cover
Marking	L; N; PE
Terminal size	2 x 4 mm <sup>2</sup> for solid cores 2 x 2.5 mm <sup>2</sup> for flexible cores
Light guides	Reflector painted white; Cover with prism structure, providing directed light from the fitting
Cable entries	
Standard	1 cable entry 8161 in plastic M 25 x 1.5 and 2 plugs 8290 in plastic, M 25 x 1.5
	 <p style="text-align: right;">08479E02</p>
Special	Other entries in moulded plastic or metal are available to order, details available on request
Installation notes	
Looping through of cables	2 leads can be connected to each terminal on the input side, making fittings suitable for looped connection.
	 <p style="text-align: right;">08480E00</p>
Mounting	Can be wall- or ceiling-mounted
Operating modes	Mains operation for general lighting or as information lights; Emergency operation: fed from battery-set built into emergency lighting fitting when used for escape route illumination or as emergency exit sign lighting.
Construction	Incorporated in one housing with electronic ballast unit
Options	Emergency lighting electronics are available: with or without automatic emergency light duration test; in maintained operation or maintained operation with switchable emergency lighting blocking.

## Compact Emergency Light Fittings C-LUX 6108 (Zone 1, 21 & 22) C-LUX 6508 (Zones 2, 22)

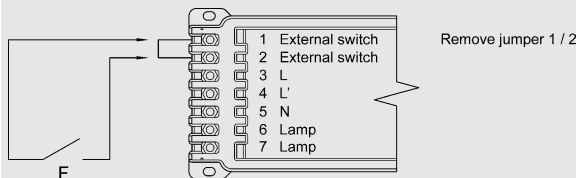
### Technical Data

Self-test function	The emergency light fitting is available with or without self-test function. The built-in self-test functions are activated as soon as light is connected to mains and automatically repeated after pre-set time has elapsed.
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 is 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 red LED and 1 green LED, incorporated in reflector; can be seen from outside through cover.

LED	Indication	Function
green	On	Charging current flowing; everything ok
	flashing 1:1	Emergency light duration test running
	flashing 1:10	Automatic function test running
red	On	Rechargeable battery capacity insufficient; battery replacement necessary
	flashing 1:1	Battery discharged; not operational
	flashing 1:10	Battery defective

Battery charging	current-regulated constant current charging, duration 20 h, then changeover to trickle charging.
Exhaustive discharge protection	at $U_{\text{Batt}} = 1 \text{ V} / \text{cell}$ (3 V); emergency light 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	Battery capacity 4 Ah Emergency light operation time 1.5 h

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



08711E02

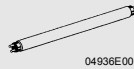

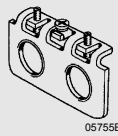
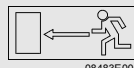
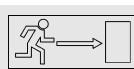





Maintained operation	On failure of supply to general lighting, fitting is supplied from the battery, irrespective of the light switch position.
Maintained operation with switchable emergency lighting	On failure of power supply to general lighting, fitting switches to emergency lighting operation only if external switch F is closed. To switch emergency lighting centrally to „ready“ or „not ready“, e.g. depending on plant operating times. The external switch has a potential-free NO contact.
Changeover voltage	from mains to battery operation at $U < 0.6 \times U_N$ from battery to mains operation at $U > 0.9 \times U_N$
Lighting power on emergency operation	1.5 h / 70 %
Battery set	
Type	NICd battery, gas tight, built into light fitting
Capacity	4 Ah
Operating voltage	3.6 V
Charging battery set	When the central lock is opened the battery set is de-energized; it can be removed from the housing by unplugging its removable contact.

## Compact Emergency Light Fittings C-LUX 6108 (Zone 1, 21 & 22) C-LUX 6508 (Zones 2, 22)

### Technical Data

Emergency exit signs	
Use	for information and escape sign fittings
Material	Foil, self-adhesive, printed with various pictograms in different colours
Recognition distance	e = 30 m
Mounting	Foil is stuck to cover externally
Options	The various types of adhesive foil which can be supplied are detailed in table "Accessories and Spare parts"

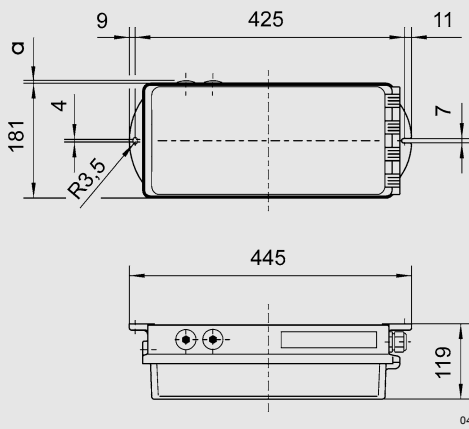
### Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight kg				
Fluorescent lamps		8 W, Ø 16 mm, for two-pin G5 holder	<b>6100801210</b>	0,300				
		<table border="0"> <tr> <td>Colour of light</td> <td>Light flux</td> <td></td> </tr> <tr> <td>cool white</td> <td>450 lm</td> <td>10 pc</td> </tr> </table>			Colour of light	Light flux		cool white
Colour of light	Light flux							
cool white	450 lm	10 pc						
Socket spanner		M 8 / SW 13; to operate central locking	<b>8198005400</b>	0,126				
Adapter plate		for use with metal cable glands which are integrated into the earthing system via the stainless steel adapter plates						
		<table border="0"> <tr> <td>2 x M 20 x 1.5</td> <td>1 pc</td> <td><b>6000819550</b></td> <td>0,060</td> </tr> <tr> <td>2 x M 25 x 1.5</td> <td>1 pc</td> <td><b>6000820550</b></td> <td>0,060</td> </tr> </table>	2 x M 20 x 1.5	1 pc	<b>6000819550</b>	0,060	2 x M 25 x 1.5	1 pc
2 x M 20 x 1.5	1 pc	<b>6000819550</b>	0,060					
2 x M 25 x 1.5	1 pc	<b>6000820550</b>	0,060					
Emergency exit sign		white	green	1 pc	<b>5203600</b>	0,010		
		white	green	1 pc	<b>5203610</b>	0,010		
		white	green	1 pc	<b>5203620</b>	0,010		
		white	green	1 pc	<b>5203910</b>	0,010		
		green	white	1 pc	<b>5203710</b>	0,010		
		red	white	1 pc	<b>5203810</b>	0,010		
		white	green	1 pc	<b>5203920</b>	0,010		
		green	white	1 pc	<b>5203720</b>	0,010		
		red	white	1 pc	<b>5203820</b>	0,010		
		white	green	1 pc	<b>5203900</b>	0,010		
		green	white	1 pc	<b>5203700</b>	0,010		
		red	white	1 pc	<b>5203800</b>	0,010		
		white	green	1 pc	<b>5203930</b>	0,010		
		green	white	1 pc	<b>5203730</b>	0,010		
		red	white	1 pc	<b>5203830</b>	0,010		



## Compact Emergency Light Fittings C-LUX 6108 (Zone 1, 21 & 22) C-LUX 6508 (Zones 2, 22)

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



Additional dimensions for cable entries 8161 and plugs 8290

	a (mm)
8161 M 25 x 1.5	32
8290 M 25 x 1.5	6



Emergency exit sign

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.