

Sheet-Steel Recessed Light Fittings in Flat Version

Series 6012 / 6412



www.stahl.de



10067E00

- > As 2- or 4-lamp version
- > As recessed light fittings in flat version with 80 mm height
- > Powder-coated sheet-steel or stainless steel
- > Central lock
- > All-pole disconnection via NC switch in positive opening operation when glass cover is opened (Series 6012)

E2



The light fittings Series 6012 and 6412 with an overall height of only 80 mm are perfect to use as ceiling light fittings, especially in paint spraying and coating systems but also in clean rooms.

| Zone | ATEX | | | | | |
|------------------|------|---|---|----|----|----|
| | 0 | 1 | 2 | 20 | 21 | 22 |
| 6012: For use in | | x | x | | x | x |
| 6412: For use in | | | x | | x | x |

WebCode 6012A

Sheet-Steel Recessed Light Fittings in Flat Version

Series 6012 / 6412

Selection Table

| Version | Lamps | | Width mm | Order number | Weight kg |
|--|-------------------|-----------------|-------------|-----------------------|--------------|
| | Lamp wattage W | Number of lamps | | | |
| 6012 Recessed light fitting (Zones 1, 2, 21, 22) | 18 | 2 | 380 | 6012/7422-9..1-02.0-1 | 16.000 |
| | | 4 | 480 | 6012/7524-9..1-02.0-1 | 24.300 |
| | 36 | 2 | 380 | 6012/7442-9..1-02.0-1 | 26.000 |
| | | 4 | 480 | 6012/7544-9..1-02.0-1 | 29.900 |
| | 58 | 2 | 380 | 6012/7462-9..1-02.0-1 | 28.300 |
| | | 4 | 480 | 6012/7564-9..1-02.0-1 | 34.000 |
| 6412 Recessed light fitting (Zones 2, 22) | 18 | 2 | 380 | 6412/7422-9..0-22.0-1 | 16.000 |
| | | 4 | 480 | 6412/7524-9..0-22.0-1 | 24.300 |
| | 36 | 2 | 380 | 6412/7442-9..0-22.0-1 | 16.000 |
| | | 4 | 480 | 6412/7544-9..0-22.0-1 | 29.900 |
| | 58 | 2 | 380 | 6412/7462-9..0-22.0-1 | 28.300 |
| | | 4 | 480 | 6412/7564-9..0-22.0-1 | 34.000 |

Order Number Supplement

| | | |
|---|---|------------------|
| Through wiring | without | 6.12/.....0..... |
| | with 3 cores | 6.12/.....3..... |
| | with 5 cores | 6.12/.....5..... |
| Cable entries | Standard 1 cable gland M25 x 1.5, 1 cable gland M25 x 1.5 with integrated plug and 1 plug M25 x 1.5 | 6.12/.....1..... |
| | Special Specify non-standard entries on writing | 6.12/.....9..... |
| Terminal block | with 3 terminals | 6.12/.....3.. |
| | with 5 terminals | 6.12/.....5.. |
| Note The light fittings are supplied without tubes and mounting material. These must be ordered separately. | | |
| Material Standard: Sheet-steel, powder coated Special: stainless steel or stainless steel painted on request | | |

Explosion Protection

Marking

| Version | 6012 (Zones 1, 2, 21, 22) | 6412 (Zones 2, 22) |
|---------------------------|----------------------------|-----------------------|
| Europe (ATEX) | | |
| Gas explosion protection | ⊕ II 2 G EEx ed IIC T4 | ⊕ II 3 G EEx nA II T4 |
| Dust explosion protection | ⊕ II 2 D IP65 T80°C, T90°C | ⊕ II 3 D IP65 T80°C |

Certificates

| Version | 6012 (Zones 1, 2, 21, 22) | 6412 (Zones 2, 22) |
|---------------------------|---|-------------------------|
| Europe (ATEX) | | |
| Gas explosion protection | PTB 99 ATEX 2029 | applied for |
| Dust explosion protection | PTB 99 ATEX 2029 | applied for |
| Other certificates | Belarus (Gospromnadzor), Kazakhstan (JSC) | Belarus (Gospromnadzor) |
| Marking | CE 0158 | CE 0158 |

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Series 6012 / 6412

STAHL

Technical Data

Electrical data

| Version | 6012 (Zones 1, 2, 21, 22) | 6412 (Zones 2, 22) | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------------|--|--|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|---|--|--------|--------|------|--------|--------|------|--------|--------|------|--------|--------|
| Rated voltage | AC: 220 ... 240 V, 50 / 60 Hz DC: 198 ... 254 V | AC: 220 ... 240 V, 50 / 60 Hz DC: 198 ... 254 V | | | | | | | | | | | | | | | | | | | | | | | | |
| Nominal operational current | for light fittings version <table border="1"> <thead> <tr> <th></th> <th>2 lamp</th> <th>4 lamp</th> </tr> </thead> <tbody> <tr> <td>18 W</td> <td>0.18 A</td> <td>0.36 A</td> </tr> <tr> <td>36 W</td> <td>0.33 A</td> <td>0.66 A</td> </tr> <tr> <td>58 W</td> <td>0.49 A</td> <td>0.98 A</td> </tr> </tbody> </table> | | 2 lamp | 4 lamp | 18 W | 0.18 A | 0.36 A | 36 W | 0.33 A | 0.66 A | 58 W | 0.49 A | 0.98 A | for light fittings version <table border="1"> <thead> <tr> <th></th> <th>2 lamp</th> <th>4 lamp</th> </tr> </thead> <tbody> <tr> <td>18 W</td> <td>0.18 A</td> <td>0.36 A</td> </tr> <tr> <td>36 W</td> <td>0.33 A</td> <td>0.66 A</td> </tr> <tr> <td>58 W</td> <td>0.49 A</td> <td>0.98 A</td> </tr> </tbody> </table> | | 2 lamp | 4 lamp | 18 W | 0.18 A | 0.36 A | 36 W | 0.33 A | 0.66 A | 58 W | 0.49 A | 0.98 A |
| | 2 lamp | 4 lamp | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 W | 0.18 A | 0.36 A | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 W | 0.33 A | 0.66 A | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 W | 0.49 A | 0.98 A | | | | | | | | | | | | | | | | | | | | | | | | |
| | 2 lamp | 4 lamp | | | | | | | | | | | | | | | | | | | | | | | | |
| 18 W | 0.18 A | 0.36 A | | | | | | | | | | | | | | | | | | | | | | | | |
| 36 W | 0.33 A | 0.66 A | | | | | | | | | | | | | | | | | | | | | | | | |
| 58 W | 0.49 A | 0.98 A | | | | | | | | | | | | | | | | | | | | | | | | |
| Power factor $\cos \varphi$ | $\cos \varphi \geq 0.96$ capacitive; additional compensation not required | $\cos \varphi \geq 0.96$ capacitive; additional compensation not required | | | | | | | | | | | | | | | | | | | | | | | | |
| Switch-off of the light | of light fitting on opening power to ballast is disconnected; switching element with 2 NC contacts in positive opening operation of faulty lamp if lamp is faulty, power supply is automatically switched off by the electronic ballast | of light fitting on opening power to ballast is not disconnected of faulty lamp if lamp is faulty, power supply is automatically switched off by the electronic ballast | | | | | | | | | | | | | | | | | | | | | | | | |
| End of Life switching-off | The ballast may also be manufactured with a modified electronic circuitry. The electronic ballast, type 6042/9... meets the requirements according to IEC 61347-2-3 (simulation of the „end-of-life-effect“ or fluorescent lamps, test 1: „asymmetrical-pulse-test“ and test 2: „asymmetrical-power-test“ corresponding to the test conditions stated in the draft of IEC 60079-7 ed.4, annex H). | | | | | | | | | | | | | | | | | | | | | | | | | |

Luminous characteristics

| | |
|-------|---|
| Lamps | Two-pin fluorescent lamps; 26 mm diameter; for holder G13 2 x 18 W; 4 x 18 W; 2 x 36 W; 4 x 36 W; 2 x 58 W; 4 x 58 W |
|-------|---|

Ambient conditions

| | |
|-----------------------------|------------------|
| Operating temperature range | - 20 ... + 50 °C |
|-----------------------------|------------------|

Mechanical data

| | |
|----------------------|---|
| Degree of protection | IP65 |
| Protection class | I(with internal PE-terminal) |
| Material | |
| Enclosure | Standard Sheet-steel, powder-coated, colour white, similar to RAL 9016 Special Stainless steel 1.4301 (AISI 304) |
| Gasket | EPDM formed gasket |
| Lens | Safety glass |
| Central lock | Central locking; glass cover hinged for access |

Assembly / Installation



| | |
|---------------|---|
| Cable entries | Standard 1 cable gland M25 x 1.5 1 cable gland M25 x 1.5 with integrated plug and 2 plug M25 x 1.5 Special Specify non-standard entries in writing |
| Connection | Line-up terminals, 0.5 ... 2.5 mm ² , solid / flexible |
| Assembly | Mounting frames with fixing holes are welded-on. Light fitting is inserted into ceiling cut out and fixed via mounting frame. The frames are flush with the glass cover. |

E2

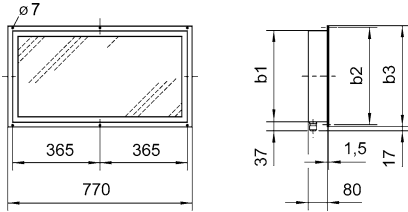
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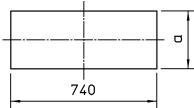
Accessories and Spare Parts

| Designation | Illustration | Description | Order number | Weight kg |
|-------------------|---|--|---------------|-----------|
| Fluorescent lamps |  | 18 W 1350 lm | 108952 | 0.100 |
| | | 36 W 3350 lm | 108951 | 0.200 |
| | | 58 W 5200 lm | 108950 | 0.220 |
| Switch |  | Switching element 8080/1-3-L, 2 normally closed contacts | 132527 | 0.025 |

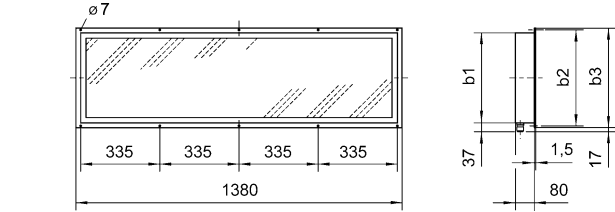
Dimensional Drawings (All Dimensions in mm) - Subject to Alterations



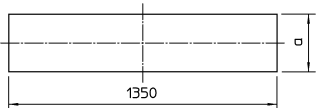
Light fitting



Mounting Cut-Out
Version 18 W

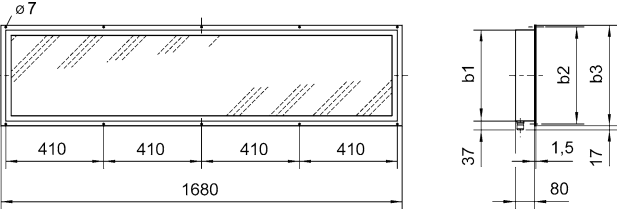


Light fitting

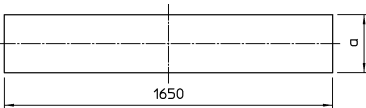


Mounting Cut-Out
Version 36 W

| Version | | Dimensions in mm | | | |
|------------------|-----------------|------------------|-----|-----|-----|
| Wattage | Number of lamps | b1 | b2 | b3 | a |
| 18 W, 36 W, 58 W | 2 | 380 | 405 | 420 | 390 |
| | 4 | 480 | 505 | 520 | 490 |



Light fitting



Mounting Cut-Out
Version 58 W

Sheet-steel recessed light fittings in flat version 6012 and 6412

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