



## WE-EF LEUCHTEN

Installation and Maintenance  
Instructions

Wall Luminaire Surface Mounted and  
Street and Area Lighting Luminaire

**FLA441 LED**

**FLA461 LED**



### **Do not open during installation**

This product is factory-sealed.  
Refer to the instructions contained in this  
document for details.



### **Surge Protection**

This product features built-in surge protection circuitry in compliance  
with applicable standards.

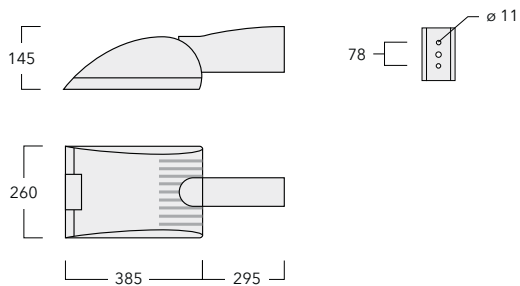
For comprehensive protection of a luminaire installation against lightning  
and electrical surges, it is essential to cover mains supply and data input  
lines at the distribution board level, by using respective primary (Type 1)  
and secondary (Type 2) surge arrestors in compliance with EN61643-11/  
IEC61643-1.

### **Warning**

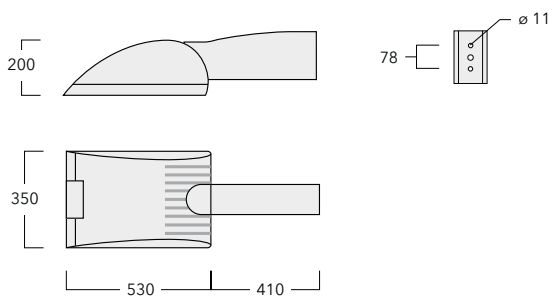
Ensure that all required surge protection measures are in place and  
activated prior to luminaire installation. Also, disconnect luminaires  
before operating high-power devices such as, for example, electrical  
arc welders.

## Wall Luminaire Surface Mounted and Street and Area Lighting Luminaire

### FLA441



### FLA461



FLA441 36W	IP66, Class I, $t_a \leq 40^\circ\text{C}$
FLA441 54W	IP66, Class I, $t_a \leq 25^\circ\text{C}$
FLA461 72W	IP66, Class I, $t_a \leq 25^\circ\text{C}$
FLA461 108W	IP66, Class I, $t_a \leq 25^\circ\text{C}$

**Light Source**

LED

**Maintenance**

Apart from cleaning the product's exterior surfaces, no special maintenance work is required.

Do not use high-pressure cleaners.

In case of component failure due to abnormal circumstances or at end of life, replacement must be carried out by a suitably qualified and trained professional.

**Warning:** Do not open luminaire while mains supply is switched on.

## Installation

The product must be installed and maintained by a suitably qualified professional in compliance with latest building/construction and/or electrical regulations and relevant legislation.

**Warning:** Switch off mains electrical supply prior to installing and connecting the luminaire.

**Notice:** If the luminaire is modified by anybody other than the original manufacturer, then the warranty will no longer be valid and shall become the full responsibility of the modifying person/organisation. Claims based on defects attributable to improper installation and/or application, and the consequences thereof, are excluded.

The installation on site must comply with local and/or national health and safety regulations.

**Attention:** The housing **H** containing the LED light source is factory-sealed and does not need to be opened during installation.

## Installation Procedure

- 1) Switch off mains electrical supply.
- 2) Remove gear box cover **B** by loosening screws **C**.
- 3) Check that rating shown on luminaire label conforms with mains electrical supply.
- 4) Feed mains supply cable **K** through cable gland **G** (Fig. I), while attaching luminaire **D** to mounting accessory.
- 5) Secure luminaire by tightening sealnuts **E** evenly with tool **L** (17 mm ring spanner not supplied by WE-EF).  
**Attention:** Ensure sealnuts **E** (provided) are fitted as shown with gasketed surface towards pole or mounting bracket. Do not substitute this fastener.
- 6) Connect mains supply cable **K** leads, and control lines where applicable, to respective terminals in terminal connector **F**:
  - a) ON/OFF or WE-EF Control Advanced (L = Phase, N = Neutral, ⊕ = Earthing)
  - b) WE-EF Control Basic (L = Phase, N = Neutral, ⊕ = Earthing, Ls = Switching Phase)
  - c) 1-10 V/DALI or WE-EF Control Dynamic (L = Phase, N = Neutral, ⊕ = Earthing, DA/DA = DALI control line, D-/D+ = 1-10 V control line).
- 7) Tighten cable gland **G**.
- 8) Reposition gear box cover **B** and retighten screws **C**.

## Mounting Accessories

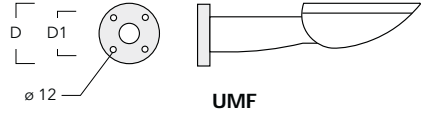
### Universal mounting flange

D/D1

UMF20 for FLA441 **310-9110** 180/150

UMF30 for FLA461 **310-9109** 250/200

Facilitates installation to flat vertical and horizontal surfaces.



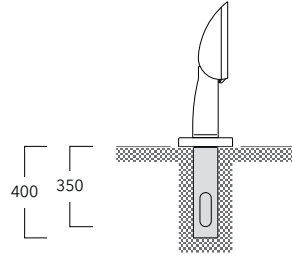
UMF

**Planted root** - Galvanised steel.

ESV4 for FLA441 **300-9100**

ESV6 for FLA461 **300-0824**

Provides inground section for universal mounting flange in landscaped areas.



ESV

### Single column fitter

EB1-102 for FLA441/461 **310-9134**

### Double column fitter

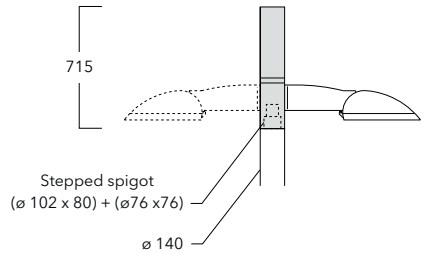
EB2-102 for FLA441/461 **310-9135**

**Single column fitter** - Aluminium/wood.

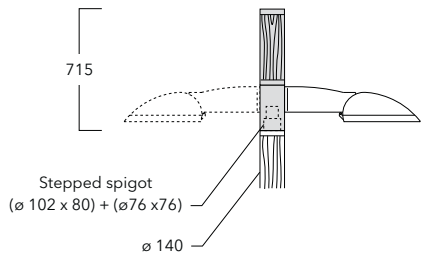
EB1-102 for FLA441/461 **310-9136**

**Double column fitter** - Aluminium/wood.

EB2-102 for FLA441/461 **310-9137**



EB1/EB2



EB1/EB2  
(aluminium/wood)

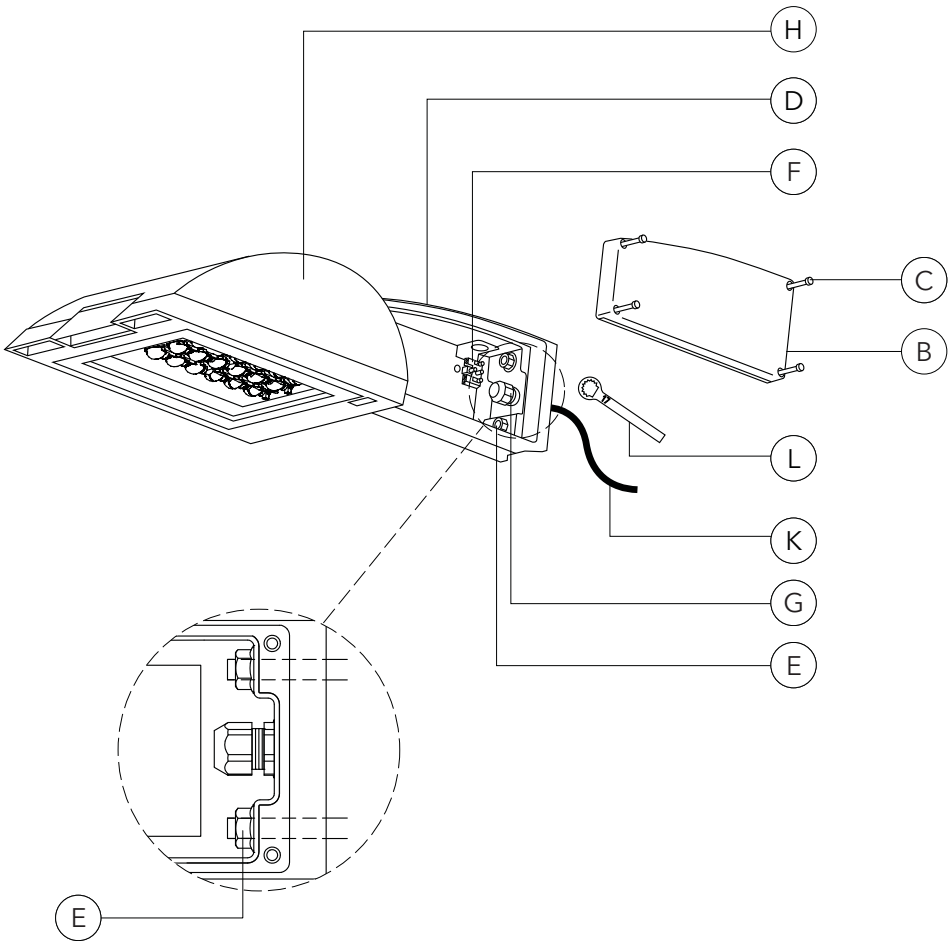


Fig. I. Feed mains supply cable through cable gland

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Technical specifications are  
subject to change.

**WE-EF LEUCHTEN**

Installation and Maintenance  
Instructions

Planted Root

**ESV4**

**ESV6**

**ESZ4**



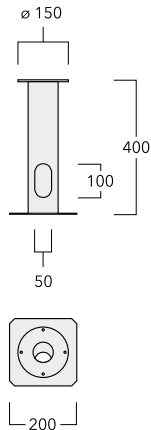


**Planted Root**

**ESV4 300-0461**

**Suitability**

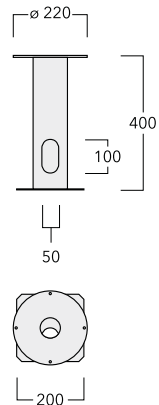
1. KTX234
2. KTY234
3. ZFY230
4. GRY224
5. Short post



**ESV4 300-0464**

**Suitability**

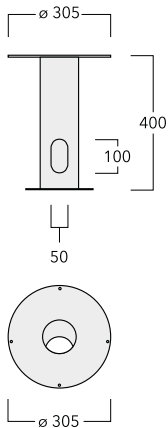
1. CFY259
2. GRY234
3. RRY324
4. RRZ324
5. XRY324
6. XRZ324



**ESV4 300-0586**

**Suitability**

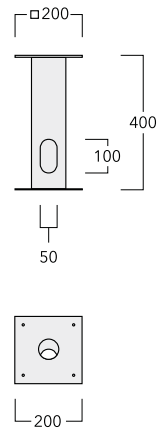
1. XRY334
2. XRZ334
3. RRY334
4. RRZ334



**ESV4 300-0459**

**Suitability**

1. QSI254

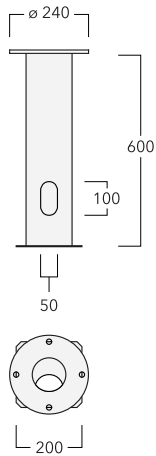


**Planted Root**

**ESV6 300-0824**

**Suitability**

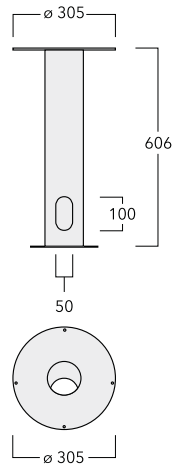
- 1. AML-C
- 2. FLA461



**ESV6 300-0457**

**Suitability**

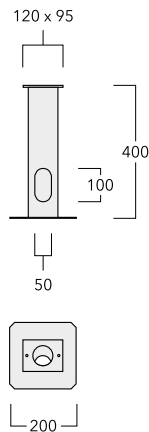
- 1. LTM440
- 2. LTM444
- 3. AMW-C
- 4. AMF-C
- 5. AMF-S
- 6. AML-C



**ESZ4 300-9115**

**Suitability**

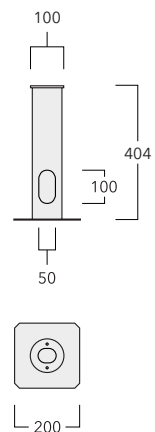
- 1. PSY414/424



**ESZ4 300-9090**

**Suitability**

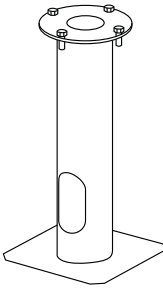
- 1. MRY224



## Installation Instruction

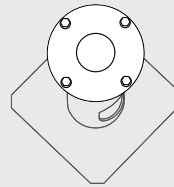
- 1) Note: It is the responsibility to installer to ensure the suitability of the ESV/ESZ planted root for any local or national structural requirements for installation, and that planted root is suitable for site specific conditions.

Instructions are a guideline for installation to these requirements and provide detail for installation orientation and mounting details.

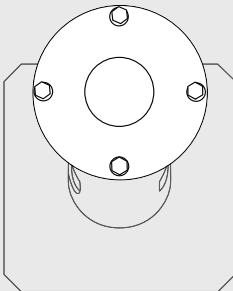


- 2) Please note, ESV4 and ESV6 must be orientated correctly for different products. In both instances conduit entry can be rotated to match cable routing.

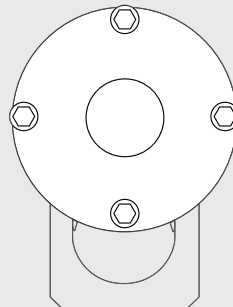
When the ESV is being installed for following products: KTY234/KTX234/ZFY230/CFY259/FLA461, please orientate the planted root as shown (base plate is at an angle of 45° to the pathway). For this installation, use the 40 mm long M8 bolts supplied.



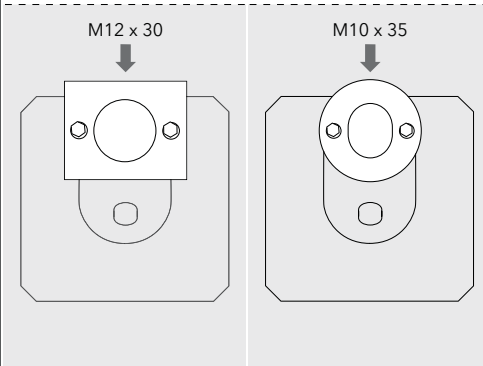
- 3) For all other product that use ESV4 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 25 mm long M8 bolts supplied.



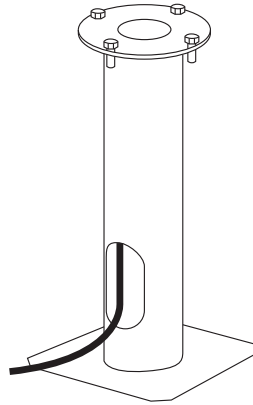
- 4) For all other product that use ESV6 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 40 mm long M16 bolts supplied.



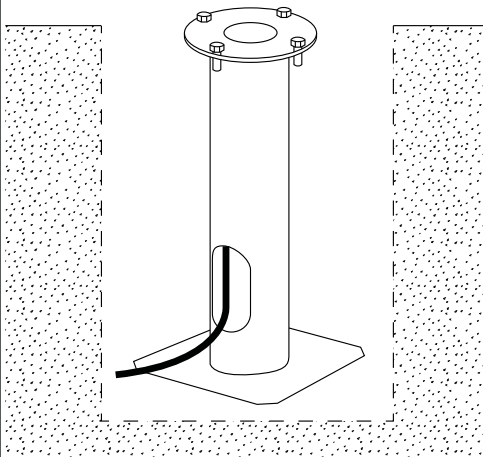
- 5) For ESZ4 please orientate planted root as shown (base plate is parallel to the pathway). For this installation, use 30 mm long M12 bolts for PSY planted root and 35 mm long M10 bolts for MR Y planted root.



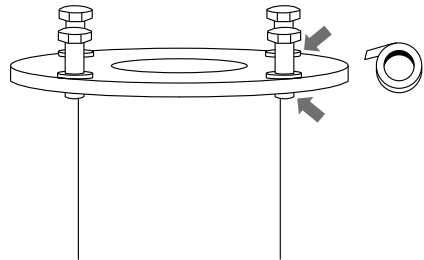
- 6) Orientate ESV/ESZ as required and fit electrical connections/conduit.



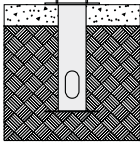
- 7) Place the ESV/ESZ in the form work for concrete pad, ensuring orientation, position and levels are correct. Ensure all openings on ESV/ESZ are blanked off, including mounting plate hole.



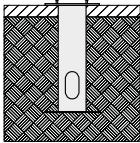
- 8) Fit the nominated bolts through mounting flange. Ensure several threads feed through the plate and tape off top and bottom. Bolts are inserted to protect threads off plate and need to be removed for fitting installation after setting the ESV/ESZ.



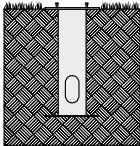
9) Pour concrete to desired level depending on requirement of concrete, paver or soil. Ensure that for any installation mounting flange must be flush or higher than surrounding surface level.



Concrete

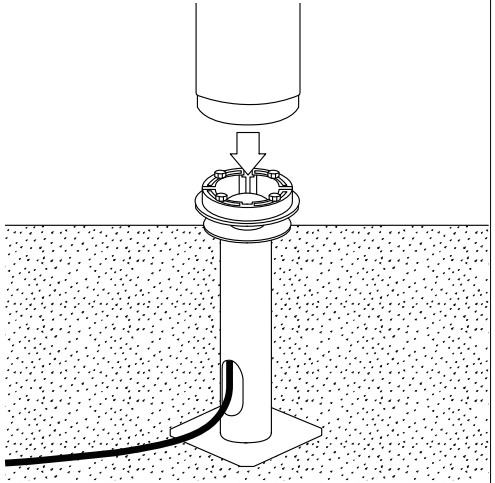


Paver



Soil

10) After concrete has cured for specified time, remove blanking and bolts. Install fitting (as per luminaire instructions) onto mounting flange.





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