

**Energy profile with four empty units,**

**height: 1400 mm**

1354 26/28

**Energy profile with four empty units,**

**height: 1600 mm**

1356 26/28

**Energy profile with lighting element and three empty units,**

**height: 1600 mm**

1353 26/28

**GIRA**

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## Device description

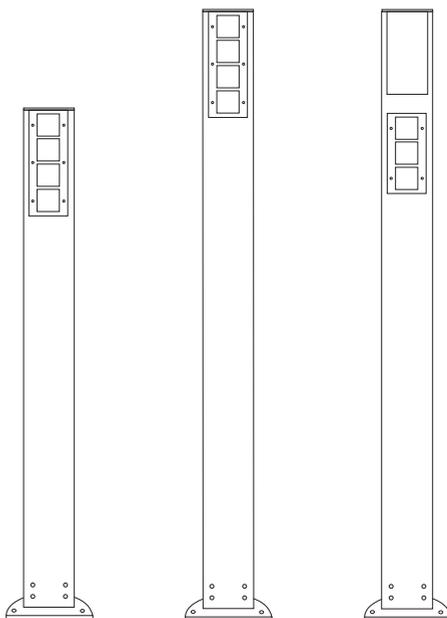
Energy profile for outdoors, made of powder-coated aluminium.

The available empty units can be outfitted as desired, e.g. with components from the door communication system from the TX\_44 switch design range or other functions from the TX\_44 or System 55 switch design ranges, such as an automatic switch or a key switch.

The lighting element provides area and guiding illumination, e.g. in an entrance area.

The Gira energy profile is available in different versions in the colours anthracite and aluminium. Examples:

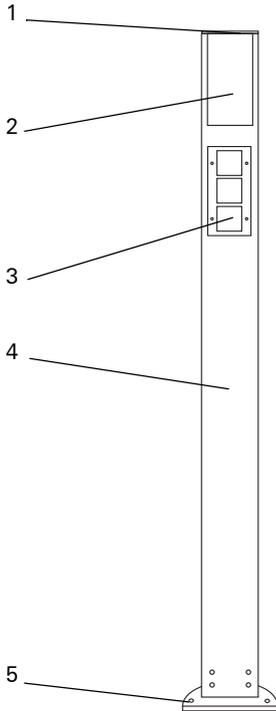
- Energy profile with four empty units, height: 1400 mm  
Order No. 1354 26/28
- Energy profile with four empty units, height: 1600 mm  
Order No. 1356 26/28
- Energy profile with lighting element and three empty units, height 1600 mm  
Order No. 1353 26/28



## Device presentation

Here, the 1600 mm-high energy profile with a lighting element is used as an example for presentation of the basic design:

- (1) Cover
- (2) Lighting element with diffusing plate
- (3) Available device unit with TX\_44 frame
- (4) Aluminium profile
- (5) Steel profile base



### Notes on care

Please use only soap suds or a solvent-free, non-abrasive cleaning agent to clean the energy profile.

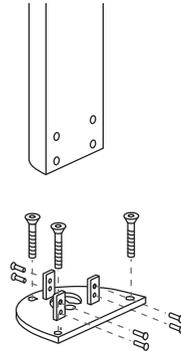
## Setting up energy profile



### Attention

The installation and assembly of electrical equipment may only be performed by a qualified electrician.

The energy profile is set up directly on a solid base, e.g. a concrete foundation.



### Drilling mounting holes

Three mounting holes must be drilled before mounting can occur. Due to the lever aspect of the profile, the profile base must be mounted with the accompanying heavy-duty plugs. It is important here that the drilled holes be absolutely vertical and exact. Use the accompanying drilling template for this.



### Tip for precise drilling

Prevent the drill from moving off course by screwing down the drilling template after the first hole is drilled.

1. Pre-drill the mounting holes with a small diameter (approx. 8 mm) using the drilling template.
2. Open up the holes by drilling them with a 12 mm bit.
3. Remove drilling dust from the holes.
4. Screw the hexagon bolt (M8 x 55) with a washer into the heavy-duty plug until it stops.

5. Hammer the plug into the drill hole until it is flush with the surface.
6. Pretension the plug with the hexagon bolt to ensure the stability of the plug seating.
7. Unscrew the hexagon bolt from the plug.

### Setting up profile



#### Condensation water opening

Before mounting the energy profile, open the condensation water drain at the bottom end of the rear of the profile. For this purpose, knock out the opening and remove the burr with a file.

8. Guide the cables (e.g. power supply) through the profile base.
9. Mount the profile base with the accompanying countersunk-head bolts (M8 x 70).
10. Guide the cables into the accompanying conduit boxes and connect the plastic-sheathed cables which reach the device units.
11. Connect the lighting element (if present).
12. Connect the earth cable of the energy profile to the earth terminal at the profile base.
13. Place the energy profile on the profile base and fasten it with the six Allen bolts (M8 x 14).
14. If the energy profile has a lighting element, insert the light.
15. Set the profile cover in place and fasten it with both cover screws (countersunk Phillips-head, B 3.5 x 9.5).



#### Profile with no lighting element

For profiles with no lighting element, all devices and TX\_44 cover frames must be mounted before the profile cover is set in place. To keep the profile splash-resistant, the top edge of the TX\_44 cover frame must be flush with the top edge of the profile.



#### Installation suggestion

Prepare the energy profile in your workshop: Install the devices and lay the corresponding plastic-sheathed cables in the conduit boxes. Then only the conduit boxes need be wired up on site.

The empty units of the energy profiles can be outfitted with components from the TX\_44 or System 55 switch design ranges.



#### Integration of System 55 inserts

Inserts from System 55 must be installed via a TX\_44 adapter plate with a hinged cover. An overview of the inserts which can be combined with each adapter plate is found in the current Gira catalogue.

Please install the flush-mounted inserts as follows:

1. Connect the device inserts.
2. Lay the connection cables in the conduit boxes and attach the cables with the accompanying cable tie.
3. Fit the inserts with the accompanying sealing pans. The profile has markings to which the supporting rings of the device can be aligned. This ensures that the frames are inserted later on in such a way which ensures splash resistance.



#### Special case: door communication

Do not mount the flush-mounted inserts of the Gira telecommunication system into the device installation boxes and sealing pans.

4. Set down the bottom section of the TX\_44 frame and fasten it with the accompanying Phillips-head screws (B 3.5 x 16).
5. Fit the central inserts and screw them down if necessary.
6. Attach the adapter plates with a hinged cover if necessary.
7. Clip on the cover plate of the frame and press in the Torx screws.

## Connecting up energy profile

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### Secure electrical separation

In accordance with VDE 0100 and VDE 0800, cables and devices operated with protective low voltage must be laid/installed separate from cables and devices which carry the mains voltage (230 V). For this reason, allow the insulation of the cables to extend as close as possible to the devices to be connected and, if necessary, pull the accompanying silicone sheath over one of the cables. This ensures that the cables are separated as specified.

Use the accompanying device installation boxes if necessary. This ensures that the installed devices are separated as specified.



### Special case: door communication

Do not mount the flush-mounted inserts of the Gira telecommunication system into the device installation boxes and sealing pans.

### Earth connection

Energy profiles with lighting elements and energy profiles which contain devices powered by 230 V must be earthed. The energy profiles have the following earth terminals:

- The lighting element is earthed via the terminal in the conduit box. The lighting element is also connected to the profile.
- An earth cable extends down to the profile base. Connect this cable to the profile base.
- If devices powered by 230 V are inserted into the empty units, the power profile must also be earthed. An additional earth terminal is available for this near the device unit. Connect this to the earth cable of the 230 V device.

### Device connection

Due to the variability of the energy profile, all flush-mounted devices from the TX\_44 or System 55 switch design range can be integrated. For this reason, please refer to the respective operating instructions accompanying each device for information on how each device is connected.



### Handling the low-voltage terminals

Cables which carry low voltage and have a lead diameter  $< 0.9$  mm can be wired via the accompanying low-voltage terminals.

For this purpose, the insulated leads are inserted into the terminals and the terminals are pressed closed with pliers.

### Lighting element connection

The connection cables of the lighting element extend down to the conduit box. Connect the lighting element in a conduit box with the accompanying terminals.

## Installing/replacing light

Light sources with E27 threading of the energy efficiency classes A++ to E can be used.

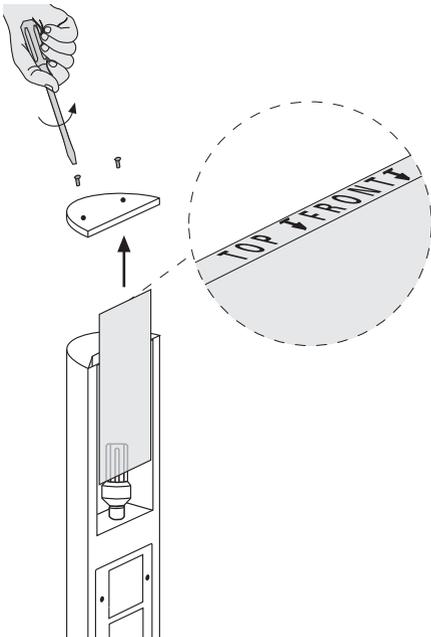
To install or replace the light, proceed as follows:

1. Loosen both cover screws (countersunk Phillips-head, B 3.5 x 9.5) and remove the profile cover.
2. Pull the diffusing plate upward from the guide.
3. Insert the light.
4. Reinsert the diffusing plate from above (please note the "TOP FRONT" labelling).
5. Set the profile cover in place and fasten it with both cover screws.



### Light diameter

Lamps with a base diameter of up to 52 mm can be used in the Energy Profile.  
If a slats element is used, the maximum base diameter is reduced to 48 mm!

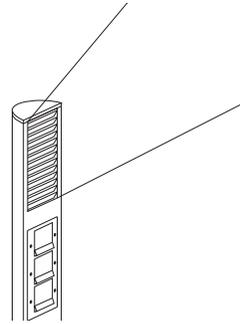


## Inserting slats

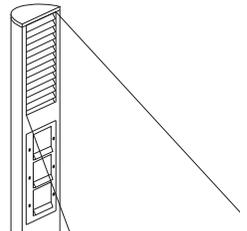
Using the optionally available slats, the lighting element of the energy profile can be used for targeted object or path illumination.

To use the slat element and the accompanying transparent plate, proceed as follows:

1. Loosen both cover screws and remove the profile cover.
2. Pull the diffusing plate upward from the guide.
3. Reinsert the transparent plate from above (please note the "TOP FRONT" labelling).
4. Insert the slat element:  
Slats directed upward,  
e.g. for object illumination.



Slats directed downward,  
e.g. for path illumination.



5. Set the profile cover in place and fasten it with both cover screws.



### Transparent plate/diffusing plate

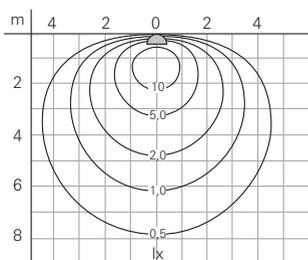
The slat element can be used with either the transparent plate or the frosted diffusing plate.

## Technical data

Dimensions (W x H x D)	
Profile base:	229 x 10 x 155 mm
Profile:	142 x 1400 x 75 mm or 142 x 1600 x 75 mm
Protection type:	IP 44 with closed device covers
Connections:	terminal screws 1 x 4 mm <sup>2</sup> or 2 x 2.5 mm <sup>2</sup>
Lamp:	Light sources with E27 trading of the energy efficiency classes A++ to E
Power:	21 W max.
Diameter:	52 mm max. 48 mm max. (if slats element is used)

## Lit area

Energy profile with lighting element, height  
1600 mm, frosted diffusing plate, 20 W light



Leuchtmittel: TC-DSE 20 W/827  
Lichtpunkthöhe über Boden: 1,52 m

## Warranty

The warranty is provided in accordance with statutory requirements via the specialist trade. Please submit or send faulty devices postage paid together with an error description to your responsible salesperson (specialist trade/ installation company/electrical specialist trade). They will forward the devices to the Gira Service Center.

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