

This manual should be read carefully before installing poles from Sapa.

Preface

The purpose of this manual is to provide to installers and maintenance technicians enough information to safely and properly install aluminum light poles. The Sapa light poles should be installed according to the guidelines in this manual to ensure the quality and longevity.

This manual contains a description of our product and instructions for installation.

The installer / maintenance technician is supposed to have sufficient knowledge and experience in the field of electrical installations. It is also believed that he or she has basic knowledge of security and is authorized to use the required machinery and equipment.

Introduction

Sapa light poles are made of aluminum and have a cylindrical or conical shape. They are equipped with an inspection door giving access to the cable box and the electrical connections that are necessary to relieve the pole.

Light poles are installed in the ground or on a base plate, depending on the capabilities and desired installation. In case where light poles are installed in the ground, a protective anti-corrosive tape is disposed around the base of the pole to 25 cm above ground level.

Please note that during installation the following points and guidelines have to be followed to avoid personal accidents and injuries:

- As a result of the manufacturing process, the presence of loose particles such as chips, grit, dust, etc. is inevitable. Take care when removing the inspection door, as material can be blown from the inside of the pole. The use of eye protection (safety glasses) is recommended.
- Around the inspection door and at the edges of the door itself to sharp edges may occur. Take precautions (gloves, long-sleeved clothing) to prevent injuries.
- Use appropriate and properly maintained tools with installation or maintenance of the pole.

If you have any questions about the safety precautions we refer you to the SCC rules or please contact us.

Installation of poles with ground piece

We advise you to assemble the light pole before installing it. The luminaire can be mounted on or at the pole before placement in order to avoid the installation of heavy loads.

General conditions / notes

- Poles should be installed preferably in pH-neutral, waste-free soil and the installation hole must be filled with clean, sharp sand. Extra strength can be achieved by filling the inside of the poles down to ground level with clean sharp sand.
- Aluminum light poles that come with a ground piece are standard equipped with a ground piece protection. This ground piece protection needs to remain undamaged before, during and after installation. In case of damage it must be repaired or replaced. If not, it is possible that the technical service life of the pole is shortened.
- The end of the pole foot is equipped with a protective ring. However, we recommend that you do not grind the pole over the ground during installation so that the protective ring remains intact.
- In order to prevent a pole from being damaged at ground level (e.g. during mechanical sweeping, mowing or pavement activities, or the installation of the pole), a ground protector is recommended. The ground protector in the form of two half shells is installed at ground level around the pole, normally to 25cm above ground level.

Additional measures

Poles with a ground piece placed into unstirred (sand) ground with an implant depth according to the EN 40-2 (Table 7, column 2) are stable enough to resist the stresses to which the pole is subjected during its service life, without further aids. However, if the pole is not placed in a stable foundation, e.g. verge of a ditch, peat soil e.g., then additional measures may be required such as:

- A baseplate against the sinking of the pole
- A set of ground wings in order to prevent rotation of the pole
- Filling the property with sharp sand to ground level
- In extreme cases, application of a foundation tube
- Greater embedment depth, EN 40-2 Table 7, column 3

Extra measures to be taken have to be decided on by the person responsible for the installation.

Installation of the pole

Poles must be installed so that 25cm of the root protection is visible. Placement of an aluminum light pole up to 7 meters / < 25 kg, can be done manually. If it is desired / required to place the pole with a crane, we recommend you to do this only by means of a sling and not by means of a hoisting hook in the doorway (see fig. 1). All the usual precautions should be observed.

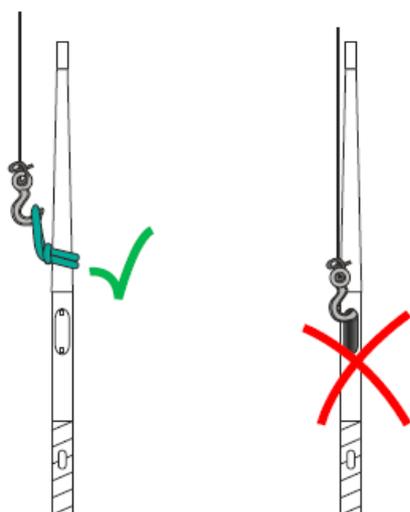


Fig. 1

Earthing

To avoid electrolytic corrosion, copper should not be allowed to come into contact with aluminium. Light poles from Sapa feature a welded reinforcement profile type 5+ with integrated welded mounting rail with a stainless steel earth nut (M8) provided with two stainless steel washers. Correct earthing is achieved by installing the copper earth wire between these two washers. If poles are not installed in accordance with these instructions, Sapa Pole Products cannot be held liable for any damage.

Advice

We advise you to consult the pole drawing received with the order for any additional instructions, e.g. fastening torques for sockets and attachments etc.

Sapa installation manuals

For specific guidelines for mounting accessories for Sapa light poles, please refer to the following installation manuals:

- Instruction manual for cast pieces
- Instruction manual for ground plates and ground wings

For specific guidelines for the installation of passive safe light poles and Raise & Lower poles from Sapa, please refer to the following installation manuals:

- Instruction manual (NE3) poles with TOAD
- Instruction manual HE3 poles
- Instruction manual Raise & Lower pole with winch
- Instruction manual Raise & Lower pole with wedge

The assembly instructions can be obtained from us and are also published on our [website](#).

Contact

Do you have questions or comments about the installation of aluminum light poles from Sapa, please contact us at any time.

Mr. Frans van den Oever

International Sales Manager Sapa Pole Products

Tel: +31 (0) 6 273 38 456

Email: Frans.vanden.Oever@sapagroup.com