

# General guidelines for installation of aluminium lighting columns

## Ground section

The ground section of aluminium lighting columns are provided with a protective sleeve as a standard feature. This protector must not be damaged before, during or after the column is installed. Damage to the protective sleeve can shorten the technical lifetime of a column.

Columns with a ground section which are installed in untreated (sandy) soil to a depth in conformity with EN 40-2 - §4.5.1 (Table 7 Column 3) are sufficiently stable to resist the forces to which they are subjected during use without additional support.

If, however, the engineer responsible for the installation of a column judges the foundation to be unstable, e.g. the verge of a ditch, peaty soil, etc., additional measures may be necessary, such as:

- Base plate to prevent the column from sinking
- Groundwing set to prevent the column from twisting around its vertical axis
- Filling up the foundation to ground level with sharp sand
- In extreme cases, use of a tube foundation
- Increased installation depth, EN 40-2 - §4.5.1 (Table 7 Column 3)

## Specific installation guidelines

It is important that care is taken during installation to avoid damage to the root protection and that backfill does not contain sharp edged material which can puncture the root protection when compacted.

For additional guidelines, such as columns with a passive safety class, please refer to the installation instructions for passive safety columns.



## Physical stress

If the column is to be installed with a crane, (aluminium lighting columns with a height of up to 7 m and a weight of less than 25 kg can be lifted and installed manually), we advise that

- This should always be done with a hoisting sling. Chains should not be used as this may cause minor abrasions to the column finish: we strongly recommend that suitable fabric straps (or other non-abrasive material) should be used during installation.

Additional Care Points:

- A hoisting hook should never be positioned in the door opening.
- Do not use welded arms on the columns for lifting if these are present.
- To comply with all safety precautions

If you have any questions about the safety measures to be taken, please refer to the VCA rules or contact us.

## Earthing

Columns are provided with an earthing bolt as a standard feature, to which the earth wire can be fixed. The bolt is located in the mounting rail inside the column and/or other positions inside the columns upon request of the customer.

## Door opening with the 2EV mast version

The insulation flap is attached in the door opening of the double insulated 2EV pole. It is important that after mounting the connection box, it completely covers the mast opening before it is closed by the service door.

## Maintenance

The service door may be removed for placement, maintenance, and repair.

The only maintenance that may be required is lubrication to the service doors locking system. In line with industry best practice, we recommend the periodic lubrication of the door lock bolts before re-mounting the service door. Anti-seize paste must be re-applied to the screw thread of each door lock bolt.

For 2EV columns it is important that the insulation flap completely covers the connection box in the door opening before it is closed by the service door.

## Reception of goods

To prevent corrosion or discoloration of the columns, the plastic packaging / covering must be removed promptly after delivery.



## Storage

The column should be treated as a finished product and care should be taken during unpacking, storing and installation. Storage should only be undertaken if it can be ensured that the materials are stored well free of the ground – do not store them directly on the ground, and -if necessary- the products are covered. The products should not be stored over a long period without adequate ventilation.

It is recommended that the storage time on the construction site is as short as possible.

## Safety

During installation please be aware of the following points and guidelines to prevent any personal injuries:

- Although every effort is made to minimise loose matter (machining swarf, chips, dust, etc.) within the column during manufacture, it can never be totally eliminated due to the production processes. Care should be taken when installing the column and when removing the door, as this may result in loose matter falling out of the column. The use of safety glasses is strongly advised.
- Sharp edges may be present around the seat of the door and on the edges of the door itself. Take precautionary measures (suitable gloves, long sleeved clothing) to avoid scratches and/or lacerations.
- Use appropriate and well-maintained tooling to perform installation and/or maintenance activities. Any lifting equipment used for should be fit for purpose and have a valid and current test certificate appropriate for the task, and this should be validated prior to work commencing.



## Botsklasse / passive safety

Group	Passive safety code EN 12767: 2019	Passive safety code EN 12767: 2007	Max. Bending Moment *)	Min. Light source height (m)	Max. Light source height (m)	Max. bracket projection (m)	Remarks:
1	50-NE-B-S-SE-MD-0 70-NE-B-S-SE-MD-0 100-NE-B-S-SE-MD-0	100NE3	7455 Nm	2	5,4	1,25	
2	50-NE-B-X-SE-MD-0 70-NE-B-X-SE-MD-0 100-NE-B-X-SE-MD-0	70NE3; 100NE3	29909 Nm	2	15	2	With shear-off construction
3	100-NE-C-S-SE-MD-0	100NE2	18701 Nm	2	12,4	1,5	
4	50-NE-C-R-SE-MD-0 70-NE-C-R-SE-MD-0 100-NE-C-R-SE-MD-0	100NE2	29909 Nm	2	18,1	1,5	Fixed flange plate with break bolts*
5	50-NE-C-R-SE-MD-0 70-NE-C-R-SE-MD-0 100-NE-C-R-SE-MD-0	70NE2; 100NE2	9265 Nm	2	9	0,6	Installed 200 below ground level on rigid base*
6	100-NE-D-S-SE-MD-NR	100NE1	33562 Nm	2	10	1,25	With elongated inner tube below ground level
7	100-LE-C-S-SE-BD-0	100LE3	18701 Nm	10	10	1,25	Special elongated inner tube above ground level
8	100-LE-D-S-SE-BD-0	100LE2	18701 Nm	8	12,4	1,25	Special elongated inner tube above ground level

\*Special guidelines for installation

