

Low Hinged Column

Introduction

Sapa Pole Products' R&D department designed a low hinged column, with a seamless fitted hinge mechanism, suitable for columns up to 6m. Due to the low weight of aluminium, these hinged columns can be lowered and raised by hand. Depending on the top load, a higher or lower column can be supplied, with or without root section.

The low hinged columns are suitable for lighting as well as signs and cameras, and allow the columns to be lowered for cleaning or maintenance work on the placed equipment.

The hinge mechanism is placed at a short distance above the door entry. After the door is opened, the mechanism can be unlocked from inside the column, by loosening three bolts. A safety-wedge can then be pulled out and the column is ready to be lowered 'by hand'.

The Sapa low hinged column operation is quick, simple and safe, due to the low weight of an aluminium column.



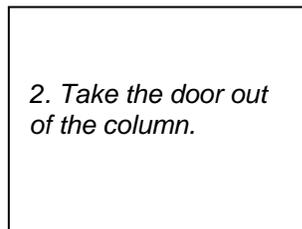
Raising & Lowering Tool is available at an extra cost

Operating the column

The 'one man raising and lowering column' operates as follows:



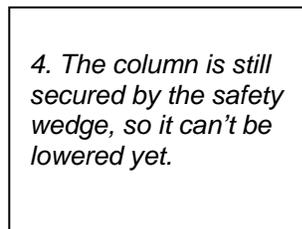
1. Unlock both door locks, with the Sapa door key.



2. Take the door out of the column.



3. Loosen all three hexagon (10mm) socket head cap screws, with a ratchet or other proper tool.



4. The column is still secured by the safety wedge, so it can't be lowered yet.



5. Use the supplied 'eye bolt' and place it into the threaded M6 hole.

Column's dimensions

All columns with the hinge mechanism will have a base diameter of 145mm. Every type of lighting column can be equipped with the Sapa hinge mechanism, but we advise hinged post top columns in combination with a low door position, to improve the lowering and raising of the column.

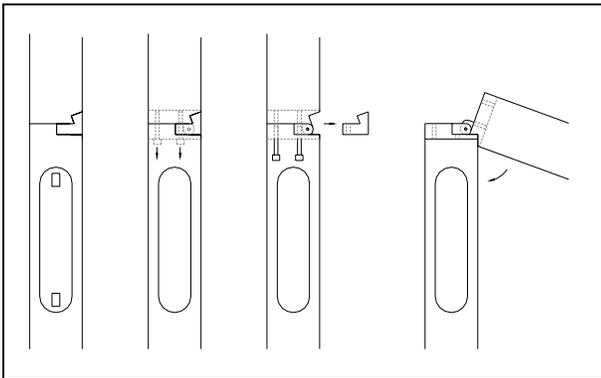
All columns will be calculated according to the European Standard for Lighting Columns, the EN40-3-3. Maximum lantern or sign projection and weight, will be determined by this calculation.

Contact the Sapa Pole Products Sales Office for calculations, for the recommended column's configuration, or other specific questions about raise and lower columns.

Important

- Always operate the column as described in this manual,
- Never operate a hinged column during high wind speeds,
- Be aware of a possible high top weight before lowering,
- Make sure that the column is dry or wear dry gloves before lowering,
- Remove all obstacles from your walk path before lowering,
- Never throw the wedge onto the ground, it may get damaged,
- Take a tool with you to support the column when it's lowered.

Short schematic display



1.) Unlock the door and take it out. 2.) Loosen all three bolts via the door entry. 3.) Take out the wedge by means of the M6 eye bolt. 4.) Lower the column with both hands, while walking backwards. 5.) Place the top end of column onto the supporting tool. 6.) Planned actions can take place.

6. Place your other hand 'high' onto the column and pull out the wedge. When it is removed, always keep your hand onto the column!



7. Hook the eye bolt with wedge onto your belt or place it on a toolbox and place your second hand onto the column.

8. Gently lower the column.



9. Carefully walk backwards during lowering, with both hands high onto the column, to decrease the top weight.

Be aware: the hinge mechanism does not support the upper column's part, so support it with a chock or another proper mode of support, when it's fully lowered.

After the maintenance job is finished, the reverse operations must be carried out to raise the column safely. Be very sure that the three bolts are fastened with 50Nm torque, before the wedge is put back in place.

The fully integrated, seamless fitted mechanism is both invisible and vandal proof at the same time.

Sapa Pole Products

Alcoalaan 1, 5151 RW Drunen
Netherlands

Telephone: +31 416 386200

Fax: +31 416 386230

www.sapapoleproducts.com