Tender document

Vertical rails with rungs

**Pos. XX.XXX : Vertical rail with rungs**

The MastLadder is an access ladder for industrial sites, pylons or masts made of anodized aluminium 6060T6. The ladder is composed of a central fall arrest rails, which supports 200mm wide rungs on each side.

The Mastladder is designed and certified in accordance to the fall arrest standard EN353-1:2014 et EN14122

The end user wears a fall arrest harness complying to EN361 and connects a vertical fall arrest trolley to the rail. In case of a fall the trolley locks instantly onto the fall arrest track, through a came mechanism. When climbing up and down, the trolley moves easily along the rail. The end user doesn’t need to disconnect at any point upon reaching the roof.   
  
The ladder rungs are made of 30mm rectangular aluminium profile. The rungs are 200mm wide. The distance between two rungs is 280mm. Galvanized steel ladder rungs are prohibited.

The ladder is fixed by brackets to the wall. The bottom element is fixed with 2 brackets. The spacing between two brackets is max. 2800mm. The brackets length depends of the wall construction. The min. distance between the wall, or any obstacle, and the rungs is 180mm.   
Brackets are made of high-grade stainless steel AISI304. The brackets are fixed to concrete or rigid steel beams.

The MastLadder junctions are made of aluminium and are bolted. They enable a perfect alignment between the ladder elements so the trolley passes smoothly.

The bottom of the ladder is equipped with a tilting end stop and an anti-inversion mechanism. This ensures that the end user inserts the trolley correctly.

If the ladder is more than 9000mm height, then it is equipped with a foldable foot rest made in stainless steel and aluminium.   
The foldable foot rest enables the worker to rest, while being safely connected to the ladder by the fall arrest rail. The foot rest is a safe alternative to the multiple section clause mentioned in EN14122.

If the ladder is installed in an area accessible by the public it must be equipped with an anti-intrusion door as per EN14122. The anti-intrusion door is made of stainless steel and is minimum 2000mm high.

Proposed brands: Fallprotec or equivalent

Type: MastLadder

Length:

**Pos. XX.XXX : Roof Exit**

The top of the fall arrest rail is equipped with a re-inforced curved exit. The curved exit must extend minimum 800mm compared to the last rung.

It is equipped with a tilting end stop to ensure that the ensure doesn’t take out the trolley inadvertently.

Proposed brands: Fallprotec or equivalent

Type: Mastladder

Units:

**Pos. XX.XXX: Personal protective equipment (P.P.E.)**

Cabinet to store the PPE equipment containing:

* GRANVIA 4 vertical fall arrest trolleys

Proposed brands: Fallprotec

Type: MastLadder Granvia 4

Quantity: 2