# SAFE WORK STANDS AND STANDING LADDERS (STEP LADDERS)

## WORK STAND

### HEIGHT OF WORK PLATFORM

**0–100 cm**


• Access to work platform must be provided from both sides, if the platform height is > 500 mm.

**101–150 cm**


• Work platform must have a fall protection rail.

**151–200 cm**

Not recommended.

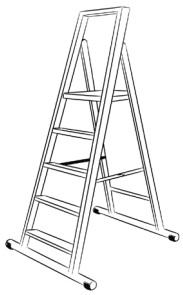
## STANDING LADDER, STEP LADDER

### HEIGHT OF WORK PLATFORM

**0–100 cm**


• On top of the work platform there must be a fall protection rail.
• **Standing ladders must not be used in case of works requiring strength and fire hazard related works, if stability requirements established to work stands have not been met (Government decree Vna 205/2009, annex 6).**

**101–150 cm**

• On top of the work platform there must be a fall protection rail.

**151–200 cm**


• On top of the work platform there must be a fall protection rail.
• The side the employee goes up must be with handrails.

• Standing ladders higher than one meter must meet the stability requirements established to work stands.

## General instructions applying to work stands:

- Work platform of the work stand must be lockable, so that it would not open when being used.
- Work stand must have steps, minimum depth 50 mm.
- Maximum allowed spacing of steps 300 mm.

## General instructions applying to standing ladders:

- Fastening of work platform is not sufficient for locking of standing ladders; besides that standing ladders must be lockable with horizontal joint / metal limiter.
- Depth of the standing ladder steps must be at least 50 mm.
- In case of works requiring strength or fire hazard related works (for example chiselling, welding), the standing ladder must meet stability requirements established to work stands (Government decree Vna 205/2009, annex 6) irrespective of the work platform height.
- As regards the properties required from standing ladders, the decisive factor is height of the work platform (not the height of the platform where work is being performed at a particular time).

- All of the work stands and standing ladders must be foreseen for professional use and suitable for construction work.
- Surface of steps and work platforms must be such that these would cause no risk of slipping (for example rifled).
- Parts of work stand and standing ladder (among others fastening of steps) must be made with reliable connections withstanding the site conditions.
- No twists or dents impairing safety are allowed. The feet must be with protective plugs.

## Stability requirement of standing ladder and work stand

- Manufacturer or distributor of work stand or standing ladder must indicate the technical solutions with the help of which required stability of the product is achieved (Government decree Vna 205/2009, annex 6). To prove meeting the stability requirements, for example a sticker with marking "Vna 205/2009" shall be attached to the product and possible additional supports are specified that are needed for meeting the stability requirements of respective product (type, quantity, length, and proper use).

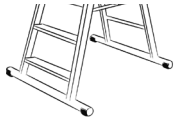
**At the site, product's compliance with requirements is compared with manufacturer's markings. If there is no manufacturer's marking on the product, the below assessment criteria shall be followed.**

### Free-standing aluminium ladder's lower support base complying with stability requirements

**If only one base:**

| steps (including the platform) | length of lower support base (m) | platform height (m) |
|---|---|---|
| 5 | 1.2-1.3 | 1.0-1.3 |
| 6 | 1.6-1.7 | 1.5-1.6 |
| 7 | 1.9-2.0 | 1.7-1.8 |
| 8 | 2.3-2.4 | 1.9-2.0 |

**If two bases:**



| steps (including the platform) | length of lower support bases (m) | platform height (m) |
|---|---|---|
| 5 | 0.8-0.9 | 1.0-1.3 |
| 6 | 1.0-1.1 | 1.5-1.6 |
| 7 | 1.1-1.2 | 1.7-1.8 |
| 8 | 1.2-1.3 | 1.9-2.0 |

- In case the platform height is less than one meter, one 80 cm wide base is sufficient.
- Instead of the base, also supporting feet or any solutions foreseen by manufacturer can be used for widening.

### Work stands meeting stability requirements

Space between the front and back feet must be about three times bigger (about 90 mm/step) than that of a free-standing ladder (about 30 mm/step).