MUNK
Sicherheit. Made in Germany.

Order no.: 500160

# Multiple-flight vertical ladder with back protection (construction) anodised aluminium

Climbing height [mm]

| | | | | | |
|---|---|---|---|---|---|
| 10640 | 11760 | 12600 | 13440 | 14280 | 15120 |
| 15960 | 17080 | 17920 | | | |
| 18760 | | | | | |

## Specification

| | | | | |
|---|---|---|---|---|
| Climbing height<br>15.96 m | Ladder length incl. exit side-rail<br>17.16 m | Outer width<br>520 mm | Depth of side-rails<br>60 mm | Wall distance<br>200 mm |
| Intended use<br>on buildings | Design type<br>Multiple-flight | Material<br>Anodised aluminium | Business division<br>MUNK Günzburger Steigtechnik | Order no.<br>500160 |

## Facts

- Range of application: On buildings for maintenance and cleaning work. For chimneys, specific regulations apply to the attachment and back protection.
- Irrespective of the climbing height:
- Either back protection or safety railing can be used as fall protection (combination not permitted as the rescue of persons is then hindered by the back protection)
- The need for an occupational medical examination for suitability for working at height (e.g. G 41) depends on the risk assessment (e.g. total climbing height, type of safety railing) of the respective vertical ladder systems

- Proof of the load-bearing capacity of the underlying surface must be provided for each construction project by a responsible stability expert
- Barrier (safety door) is always required
- The vertical overlap of successive ladder flights must be at least 1,680 mm
- At unsecured exit levels, railings attached to both sides of the vertical ladder or led into the exit level are required
- Gap at exit step must not be larger than 75 mm
- Step-on dimension: Distance from the entry level to the first rung: 100 – 400 mm. If the exit is to the front, the uppermost rung must be at the same height as the exit level
- Step-on dimension: Distance from entry level to the first rung 100–400 mm
- When exiting forwards, the uppermost rung must be at the height of the exit side-rail
- Vertical ladders with fall protection require at least 800 × 800 mm clear space available in front of the ladder when climbing off it. These dimensions must also be observed for new installations in the existing system
- The clearances between the vertical ladder system and the railing must not exceed 180 mm
- The connection to the fall protection must be established and released from a secured standing position
- A secured standing position is, for example, a platform with railing and a secured access
- For safe gripping of the side-rails, the clearance to adjacent parts around the side-rails must be at least 75 mm (except for components forming part of the vertical ladder system)

## Scope of supply

- Ladder section anodised aluminium: 5 x
- Exit side-rail straight: 2 x
- Rigid wall anchor 200 mm, galvanised steel: 24 x
- Ø 700 mm back protection hoop: 12 x
- Back protection brace for fixed ladders: 28 x
- Back protection hoop offset design: 2 x
- Transfer platform between ladder sections, Ø 700 mm: 1 x
- Vertical ladder connector 200 mm: 6 x

## Information on sustainability criteria

- Corporate certification: ISO 9001
- Corporate certification: ISO 14001
- Corporate certification: EN 1090
- Corporate certification: EcoVadis
- RoHS
- REACH
- The MUNK Group complies with a Code of Conduct
- The Supply Chain Act does not apply due to our size
- The materials used are listed in the technical specification
- Resource-saving production: own photovoltaic systems
- Energy-efficient consumption during production: LED lighting
- Repairability, durability and quality: 15-year warranty on series products made in Germany
- Recyclability: Our products are mostly made of aluminium, steel or wood and can be fed directly into the recycling process.
- Socially acceptable working conditions in production: fair wages, gender equality
- Economical and recyclable packaging: no use of polystyrene, predominantly use of wood and cardboard, small amounts of plastic
- No health hazards for the users

## More product pictures

## Added value

### Rational modular principle

- Prefabricated vertical ladders and the possibility of combining them yourself offer the right solution for every project
- The highly stable fastening technology of the important back protection increases the economic efficiency
- Each individual component in the modular kit system meets the same quality and efficiency requirements

### Mounting and fastening

- Thanks to the optimised assembly system, even complex and multiple-flight systems can be assembled with up to 30 percent time savings
- For ready-made vertical ladders, the appropriate mounting sets are already included, the modular kit system offers numerous fastening options (please also order)
- Adjustable wall anchors for complex façades or walls with full thermal insulation

### Various material versions

- Depending on the application, vertical ladders made of galvanised steel, stainless steel, aluminium and anodised aluminium are available
- Wall anchors and other mounting materials are available in several materials
- Robust, durable, efficient

### Safely to your destination

- Convenient platforms for rest breaks or easy changeover with staggered vertical ladders
- Exits and access ladders for safe ascent and descent
- Lockable doors, wall anchors and other accessories for different structural conditions

Optimum planning

- Practical planning aids (available as Downloads) with tips for correct planning of vertical ladder systems
- Planning in close coordination with the client as well as the place and purpose of use
- Joint project planning

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# Corporate certifications

## on sustainability criteria