



ACCESSIBILITY FOR ARCHITECTURAL BARRIERS.

IS IT:

☒ *Product*

☐ *Technology*

☐ *Equipment*

APPLICABLE FOR:

☐ *Restoration*

☒ *Rehabilitation*

☐ *New Construction*

APPLICABLE ON:

☐ *1. Foundations and underground structures*

☐ *2. Vertical structures*

☐ *3. Horizontal structures and vertical connections*

☐ *4. Roof and terraces*

☐ *5. Façade and building envelope*

☐ *6. Finishes and completion elements*

☒ *7. Integrated services*

☐ *8. General strategies for building recovery*

Related companies: Válida sin barreras.

DESCRIPTION

Accessibility solutions for the elderly, people with reduced mobility or disabilities.

Stairlift chairs:

- Stairlifts chairs are the ideal solution for single-family homes. They are used to going up stairs and down stairs from one floor to another in a seated position, without any physical effort, in complete safety and without any risk of falling.
- The stairlifts are perfect for the elderly and for those with reduced mobility, improving their quality of life. In addition, they are very comfortable, can be installed quickly and without building work at home. Likewise, stairlifts chairs are also ideal for installation in the portal of a community of neighbors, because they take up very little space and adapt perfectly to any environment.

Stairlift platforms:

- Stairlifts platforms are designed so that people in wheelchairs can go up and down stairs with total autonomy.
- They are suitable for the entrance of buildings (both public and private) and also to provide accessibility to any type of business. The stairlifts are foldable, take up very little space in the place where they are installed and are perfectly integrated into the environment. They can be installed on straight and curved stairs, indoors and outdoors.
- These stair lifts are widely used in stores, stores, restaurants, portals and public places.

Short-travel elevator:

- They allow transporting people with reduced mobility or disabilities, overcoming short distances of up to 3m.
- It is a sturdy solution that works with an electric motor and is widely used by people in wheelchairs. Ideal for housing communities, to save those stairs and slopes that often separate the entrance of a building from the landing where the elevator is located.
- These mini lifts are suitable for everyone (with and without disabilities) and for multiple uses, whether to go up and down in a wheelchair, for the baby's stroller or for the shopping cart,

improving the user experience. Therefore, accessibility is a universal good.

- This type of elevator is not considered a hydraulic elevator and does not require a machine room.

Other solutions:

- Automatic ramps
- Automatism for gates
- Fixed and portable lifts for swimming pools
- Manual stair lifts

WHY TO USE

Stairlift chairs:

- Available for straight and curved flights of stairs.
- Compact design.
- Easy to clean guides.
- Quick and easy installation.

Stairlift platforms:

- For straight and curved flights of stairs.
- Safe, silent and reliable.
- Compact.
- Smooth and gradual movement.

Short-travel elevator:

- It bridges vertical unevenness up to 3m.
- For indoor and outdoor use.
- Quick installation.

Other solutions:

Automatic ramps

- ramps with automatic folding and unfolding.
- facilitates access to the premises for people in wheelchairs.
- perfectly integrated in the step.
- comfortable, safe, robust and easy to install.

Automatic Door operators

- automatic opening of swing doors.
- facilitates access for wheelchair users.
- quiet and reliable motor.
- easy assembly and simple configuration.

Fixed and portable pool lifts

- easy access to all types of pools.
- versions with permanent or mobile fixation.
- great ease of installation.

- easy to transport.

Manual stair climbers

- ideal for very narrow stairs, small landings and/or fan stairs.
- comfortable and safe seat.
- easy transport, fits in the trunk of a car.
- minimizes the effort of the accompanying person.

HOW TO USE AND APPLY

[Refer to description section for each solution]

TECHNICAL CHARACTERISTICS

Stairlift chairs:

- Maximum load: 160 kg
- Inclination 30°-45°: 140 kg
- Inclination 45°-50°: 130 kg
- Foldable rail (incl. 30°-50°): 120 kg
- Maximum inclination: 50° - 61°.
- Speed: 0,10 - 0,15 m/sec
- Power consumption: 20 Watts
- Power supply: 90 - 230V.
- Minimum ladder width: 655 mm
- Standard rail length: 2 x 2350 mm
- Maximum rail length: 4700 mm
- Noise: 56 dB
- Rail color: anodized aluminum (own)
- Maximum travel: 9 m

Stairlift platforms:

- Maximum load: 300 Kg.
- Speed: 0,10 - 0,15 m/s.
- Minimum width: 600 mm
- Power supply required: 230/240 V; 24V (dc).
- Power of 0.54KW.
- Minimum inclination 10° and maximum 60°.
- Standard indoor batteries up to 7m length.
- Special batteries for lengths longer than 7 meters or for outdoor installations.
- Travel lengths longer than 10 meters, order upon request as there may be a need to increase the number of batteries.

Short-travel elevator:

- Maximum load: 500 Kg
- Maximum stroke: 3.000 mm

- Lifting speed: 40 - 150 mm/sec
- Electrical connection: Single phase 220 Vac. Up to 2,2 Kw 16 A; 230 V / 50Hz / 10 A; 220-240V / 1 phase / 16 A; 380-440V / 3 phases / 10 A / 50 Hz.
- Standard platform dimensions: 1.300 x 800 mm
- Minimum pit 75 mm
- Boarding: 90° or 180°.
- Door clearance: 800 mm (minimum)
- Drive: hydraulic; worm gear; belt drive

Other solutions:

Automatic ramps

- To overcome unevenness up to 200 mm.
- Power supply 24V. with 230V charger.
- Maximum consumption of 4,7A.
- Total electrical power of 70W.
- Slope of 12%.

Installation:

- Creation of a housing in the floor to insert the base of the ramp.
- Placement of a mounting frame to facilitate installation.
- Placement of the ramp and fixing by means of bolts.
- Connection to the 230V-50Hz electrical network.

Automatic Door operators

- Power supply (V - 50/60 Hz): 100-240 AC
- Power supply to motor (V): 36 DC
- Nominal power (W): 70
- Stand by power (W): 8
- Operating time at 90° (s): 2 / 6
- Duty cycle (%): Continuous Duty
- Torque (Nm): 40
- Operating Temperature (°C): -15 / +50
- Maximum leaf weight: 300 Kg
- Door width: between 800 and 1.500 mm.

Fixed lifts for swimming pools

- Lifting capacity: 140 kg.
- Swivel angle: 150°.
- Frame and piston: AIST 316 stainless steel.
- External tubular structure: 129x2 mm.
- Water pressure: 3.5 to 5 bar.
- Chair: synthetic material suitable for outdoor use.
- Range of colors.



Portable swimming pool lifts

- Load capacity: between 120 kg and 136 kg (depending on the model chosen).
- Voltage: 24V.
- Autonomy: 50-60 cycles (depending on the model chosen).
- Battery charger.
- Emergency start-up system.

Manual stairlift (traditional)

- Maximum load capacity up to 120 kg.
- Speed: 12 steps per minute (with load).
- Minimum landing depth: 800 mm.
- Minimum stair width: 550 mm.
- Power supply: 24V with 3.5 Ah battery.
- Autonomy: 200 steps (approximately 11 floors) with full battery charge.
- Minimum tread: 140 mm.
- Maximum riser: 200 mm.
- Weight: 31kg.
- Maximum slope: 55° (over 100%).

Manual stair climber (caterpillar)

- Maximum load capacity up to 130kg.
- Maximum inclination: 35° (70%).
- Weight: 51 kg.
- Autonomy with full load: 40 steps.
- Autonomy in reserve: 5 steps.
- Minimum width of the ladder: 900 mm.
- Speed: 5,5mt/m.
- Temperature of use and storage: -10° + 50°C.
- Minimum landing maneuvering space L: 100x100cm.
- Minimum landing maneuvering space U: 100x180cm.
- Power supply: 24DV.

REFERENCES / SOURCES AND LITERATURE

<https://es.validasinbarreras.com/productos/valida-home/sillas-salvaescaleras/>

<https://es.validasinbarreras.com/productos/valida-access/plataformas-salvaescaleras/>

<https://es.validasinbarreras.com/productos/valida-access/elevadores-corto-recorrido/>

<https://es.validasinbarreras.com/productos/valida-access/otras-soluciones/>

WEBSITE OF THE COMPANY

<https://es.validasinbarreras.com/>

RECOMMENDATIONS AND OTHER INFORMATION

N/A

EXAMPLES

See images at the end of this sheet [section of Images and Captions]

IMAGES AND CAPTIONS

Stairlifts chairs:



Fig.1-2: Examples of stairlift chairs used ideal for spaces where other solutions, like elevators, are not feasible. It relies on a single rail attached to one side of the stair, where a foldable chair is placed to run the length of said rail. This solution is intended for single flights of stairs with a straight-line path. ©Váldasinbarreras



Fig.3-7: Examples of stairlift chairs intended for stairs with long stretches of more than one flight and varied geometries.
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Stairlifts platforms:



Fig.8-9: Examples of stairlift platforms, ideal for places where an elevator is not feasible and a difference of height, with steps in a straight-line path, is present. It relies on a rail attached to one side of the stairs, and a platform with security guards so people in wheelchairs can overcome the obstacle. This solution is generally used in halls with protected or catalogued stairs where a ramp is not permitted, or it doesn't have enough room to be installed in compliance with the required standards. ©Váldasinbarreras



Fig.10-14: Examples of stairlift platforms intended for stairs, or steps, with varied geometries, like spiral staircases, L-shaped or U-shaped staircases, and even for steps with low height difference. This solutions can be installed attached to the sides of the stairs, hanging from the ceiling of the stairs, or with an independent single support structure.

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Short-travel elevators:



Fig.15-21: Examples of short-travel elevators ideal for wheelchairs to overcome low difference in height. It also doubles as a small cargo elevator, in some cases. It's available in different arrangement of installations, it can be attached to a single point in the wall, in an independent support structure, on exteriors or interiors, with a chain or belt lifting system or with a crane-like lifting system. ©Válidasinbarreras



Fig.22-23: Compact short-travel elevators, ideal where space saving solutions are required as these models are of compact dimensions. These elevators are ideal for houses or residences for the elderly where people with reduced mobility, or disabilities live. ©Váldasinbarreras



Fig.24-28: Examples of low-profile short-travel lifts, ideal for places where a discreet solution is needed. These models are intended to blend with the surrounding architecture and to not be noticed at first sight. It's a solution consisting of a platform lifted from below by a mechanism, and sometimes it includes railings, depending of each case. ©Váldasinbarreras

Other solutions:

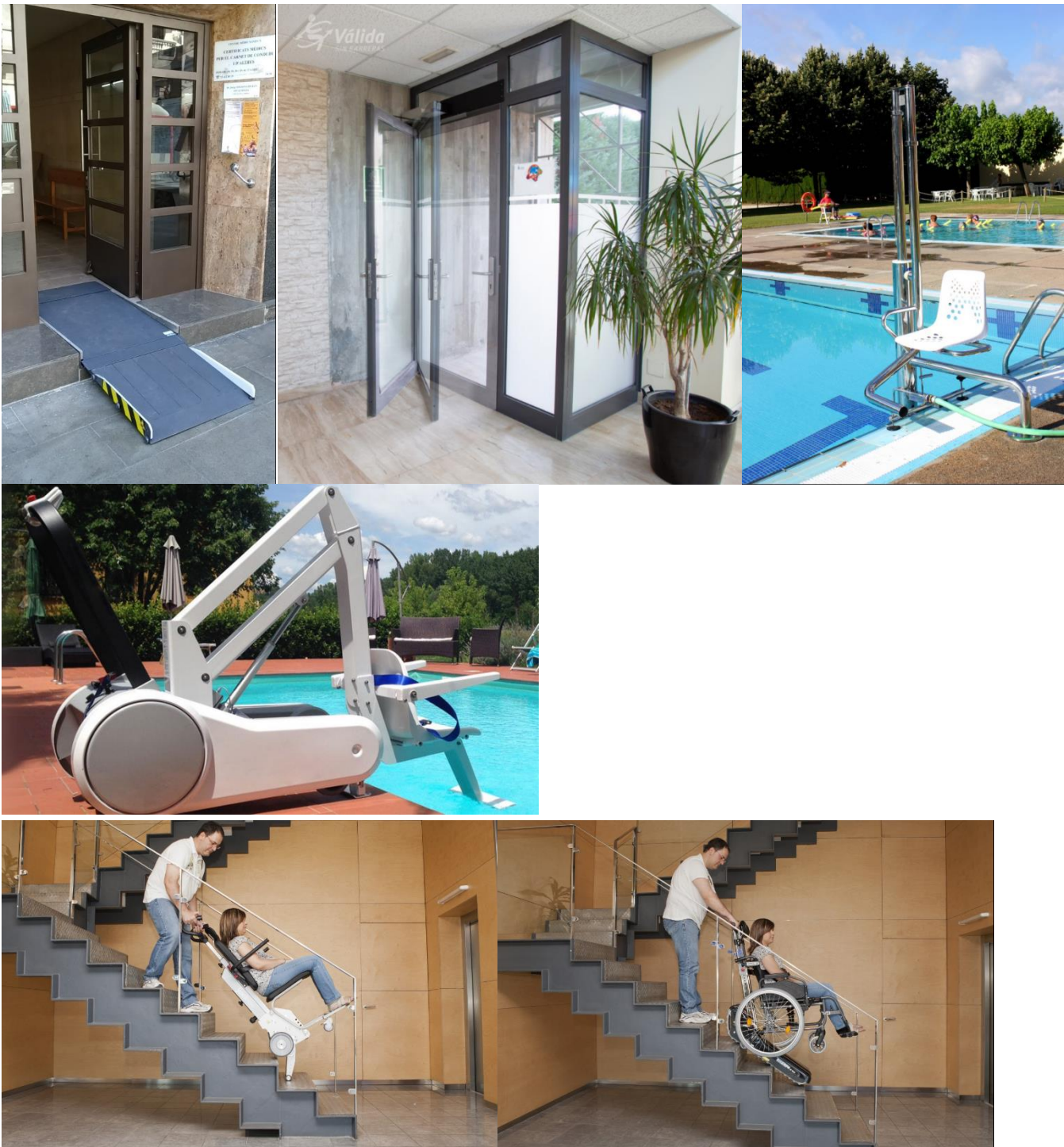


Fig.29-34: Examples of other solutions available in the market: discreet and foldable automated ramps to overcome low steps, automated swinging doors, fixed stairlift chairs for pools, movable chair lifts for pools, traditional manual stairlifts, and caterpillar manual stairlifts that can attach to wheelchairs. ©Válidasinbarreras