



TECHNICAL SPECIFICATIONS

HOME LIFT MODEL UH

APPLICATION For the vertical transport of people in low buildings with relatively little traffic, designed as much for existing homes as for new buildings; more specifically it can be installed in:

- Chalets
- Detached family homes
- Flats with about 8 apartments maximum
- Semi-detached or terraced houses

For three persons or a wheel-chair. It has a door-type access of adequate dimensions, plus handle and conveniently located knobs for wheelchair users (UHM model).

STANDARDS It has a Type CE Test Certificate (ATI/LD-VB/M011/99, notified body 0053), model elevator, meets all the requisites described in Directive 95/16/CE, designed and manufactured in compliance with harmonized norm EN-81-2.

CHARACTERISTICS

LOAD 225 Kg (3 persons or a wheelchair)

SPEED 0.2 m/s , 0.3 m/s (single speed hydraulic power unit)
0.4 m/s , 0.5 m/s (hydraulic power unit with levelling speed)

STOP Up to 6 stops

TRAVEL Up to 16 m. The UHM model holds a wheelchair, travels 9 m and may only be used in private homes.

POWER SUPPLY 230 V \pm 5% Single-phase, 50/60 Hz. Single-phase only for 0.2 m/s.
230/400 V \pm 5% Three-phase, 50/60 Hz.
Other voltages available.

TYPE OF DRIVE Hydraulic, indirect acting lift with 2:1 ratio.

CYLINDER Single cylinder with internal buffer (hydraulic dampner), rupture valve, choice of lower or upper oil inlet, can be supplied in two pieces.

POWER UNIT Hydraulic unit with motor submerged in oil, screw pump (low noise), valve block with all safety measures specified in EN 81-2, serial and instruction plates included in the power unit.
For rated speeds greater than 0,3 m/s pump unit supplied with levelling speed (2 speeds).

Dimensions: 350x700x750 (h) -1 speed - ; 500x850x1000 (h) -2 speed -

PIPING **Rigid**, pipes as per DIN 2391, material steel St-37.4 (NBK) - 6 m standard -, the required elbows coupling are not included in the standard supply.

Flexible, hydraulic hoses with double metallic mesh, tested with couplings fitted - optional on demand -

HANGING

- ROPES* Using three ropes each 8 mm in diameter, make-up 6x19+1, breaking load 38.8 KN (1770 N/mm²)
- PULLEY* Average diameter 332 mm, 3 slots, with covers to stop ropes coming out of their grooves, includes a separate pulley for the safety rope fitted to the pulley assembly.

GUIDING

Using two calibrated guide rails T65/A as per ISO 7465

CAR FRAME

Fitted with a instantaneous safety gear of captive roller, activated by the safety rope.

INSTALLATION IN THE SHAFT

Reactions on guide rail supports shown in assembly instructions.

Wall mounting - standard -

Everything necessary for bracket mounting to one of the lift shaft walls is supplied; guide rail brackets attached by bolts to concrete or solid brick wall.

For hollow brick walls allowances should be made for built-in metal supports to weld the brackets to, or the use of through-wall pegs if the wall is accessible from both sides.

Self-supporting structure - optional -

Steel structure, painted with baked enamel paint; allows the subsequent closing of the shaft without the need for brickwork. Requires horizontal anchoring to the building.

Allows to lean the lift against a wall of a inside court or fit it up in a stair well; in other cases it requires to cut the building floor structure and fix the self-supporting structure to building floor.

Next the shaft would be closed with lightened masonry or steel sheet lining; in case of stair well or leaned lift in a court, the structure can be cover with glass pieces or a similar material stuck on the structure.

If self-supporting structure the landing doors will always be swing type and the car folding "bus" type.

LIFT CAR

- SIDE-PANELS* Made of plate sheet with fire resistant plastic covering.
Other colours and textures available (see REPLASA's Decorplate catalogue).
Standard colours: U-60 (grey); U-62 (cream); U-35 (pale green).
Stainless steel skirting board.
Side handrail also available on request.
- CEILING* Matte white (standard finish) or semi-translucent roof.
- FLOOR* Black rubber floor with circles (standard finish) or pale grey. Other floorings available in artificial stone of various colours.
The car may also be delivered ready for marble or granite installation.
- LIGHTING* 2 50 W halogen lights in ceiling (standard supply) or indirect fluorescent light.
- FLOOR DISPLAY* Fitted in lift car with doors without spyhole; optional with doors with spyhole.
- OVERLOAD DEVICE* Luminous and acoustic signal indicating the established maximum load weight has been exceeded.

**EMERGENCY
ALARM DEVICE**

MICOME's GF1 inter-communicator also available ready to be installed in the car's knob panel. It allows for on-site programming of phone number as well as many other operating options. It also allows for shared use of a telephone line.

Alarm push buttons in the ceiling or in the car frame are also supplied to make rescue operations easier.

Additional inter-communicator with machine room also available.

DIMENSIONS

Height = 2100 mm

Width, parallel to guide rail plane : **A** (See Figures 2, 3 or 4)

Depth, perpendicular to the guide rail plane : **B** (See Figures 2, 3 or 4)

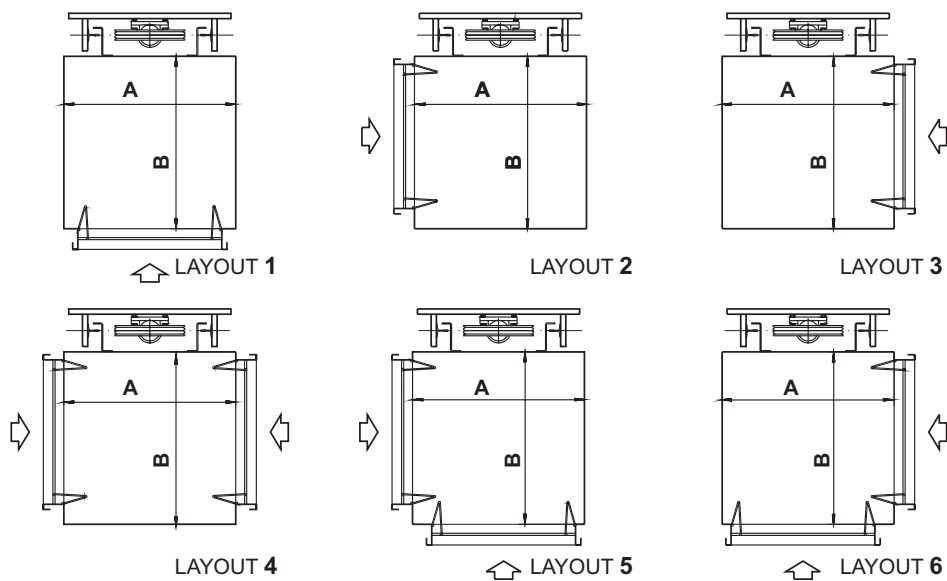
The UHP family elevator, according to table 1.1 of EN 81-2, allows for maximum car dimensions of 0.20 m² for loads of 225 Kg.

The car surface of the UHM model, specifically designed for physically impaired people, is larger than that indicated in norm EN 81-2. All the resistant and safety elements are designed for the weight corresponding to the maximum dimensions of the car as specified in table 1.1 of EN 81-2 (this aspect is duly included in the EC Type Test Certificate. The machine has conveniently located knobs, as well as a badge indicating the 225 Kg maximum capacity. This model may be installed in public buildings as long as the car knobs are supplied with a key, so that the use of the machine may be restricted to specific users.

ENTRANCES

1 or 2 lift-car entrances, see figure.

Only folding "bus" type doors possible for double adjacent entrances (Layouts 5 and 6)



CAR DOORS

TYPES

Folding automatic "bus" type with spyholes..

2 and 3 leaf, central-aperture, telescopic operator, 90 mm carpet, no spy-hole.

Please consult our technical department for other types of doors.

FINISH Stainless steel.

DIMENSIONS Clear height = 2000 mm .
Clear opening = 600 mm, 650 mm, 700 mm, 800 mm .

LANDING DOORS

TYPES **Swing hinged** semi-automatic with or without spyhole.
2 and 3 leaf, and 4 leaf central-aperture, telescopic doors.
Please consult our technical department for other types of doors.

FINISH **Priming** for panel doors, **epoxy paint** for automatic doors (standard).
Stainless steel (optional for automatic doors, please consult price)

DIMENSIONS Clear height = 2000 mm
Clear opening = 600 mm, 650 mm, 700mm, 800 mm

LIFT-CAR BUTTON PANEL

Stainless steel.
Protected push buttons.
Open-door, emergency and/or acoustic alarm buttons
Emergency light incorporated.
Available space for the installation of the luminous and acoustic signal of the weighing device, plus loudspeaker and microphone.
Key operated buttons (optional, available on request).
Engraving available (logo, name, etc). Please contact us.

LANDING BUTTON PANEL

Stainless steel
Protected push button.
With "presence" (green) and "occupied" (red) lights.
For installation in door jamb.
Engraving available (logo, name, etc). Please contact us.

CONTROL

Universal simplex, using push-buttons.
Control pannel by PLC (programmable logic controler) enclosed in metal cupboard. Dimensions 700x500x150.
Magnetic switches used to detect stops and changes of speed.
Automatic landing doors remain closed whilst lift-car is not in use.
Re-leveling with doors open.

ELECTRICS

All wiring and accessories required to fit the lift-car and shaft are supplied.
As an option the lift-car and/or shaft wiring can be supplied pre-fitted.

MOTOR POWER

The maximum power installed and the maximum consumption at 400 V, in accordance with the nominal speed, is as follows:

Tensión	0.2 m/s	0.3 m/s	0.4 m/s	0.5 m/s
230/400 V 3~	2.2 kW / 5.7 A	3.0 kW / 8.0 A	4.4 kW / 11.0 A	4.4 kW / 11.0 A
230 V 1~	2.2 kW / 21.3 A	-	-	-

**PROTECTIVE
MEASURES**

Against inversion or lack of a phase.
Motor protected by PTC thermistors.
Maximum running time.
Overload device. – (optional, available on request). -.
Two-way voice communication with a rescue service. – (optional, available on request). -.
Indication, in control board, when lift-car is in unlocked zone.
Upper limit switch, tripped by cam attached to piston head.
Automatic recovery if power supply fails.
To stop creep: Electric anti-slip system.
To stop free fall: Rupture valve and instant safety gear tripped by safety rope.
Temperature relay in machine room (optional, available on request).
Acoustic alarm (optional, available on request).

**LIFT SHAFT
 DIMENSIONS**

Depending on:

- Lift-car dimensions
- Type of doors
- Number and layout of entrances
- Self-supporting structure option

(See Figures 1, 2, 3, 4)

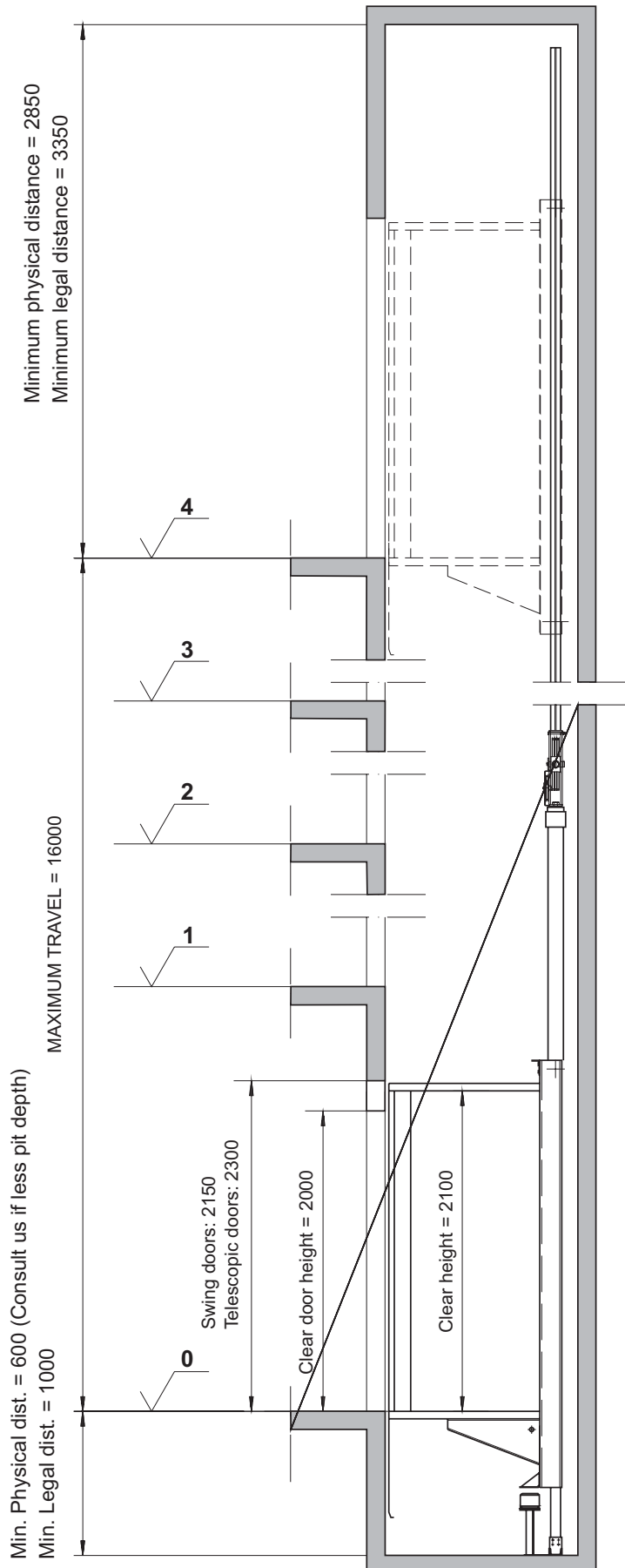


Figure 1.
 Minimum shaft dimensions (front view).

Figure 2. Minimum shaft dimensions (plan view).
 Wall mounting.
 Folding "bus" type car doors.
 Semi-automatic swing landing doors.

LIFT CAR DIMENSIONS					
Types	A min.	B min.	A max.	B max.	PL
UHP	700	600	1000	900	600, 650 ó 700
UHM	900	700	1200	900	800

Note: For wheelchairs choose model UHM with maximum dimensions;
 in this case only layouts 2,3 and 4 are available.

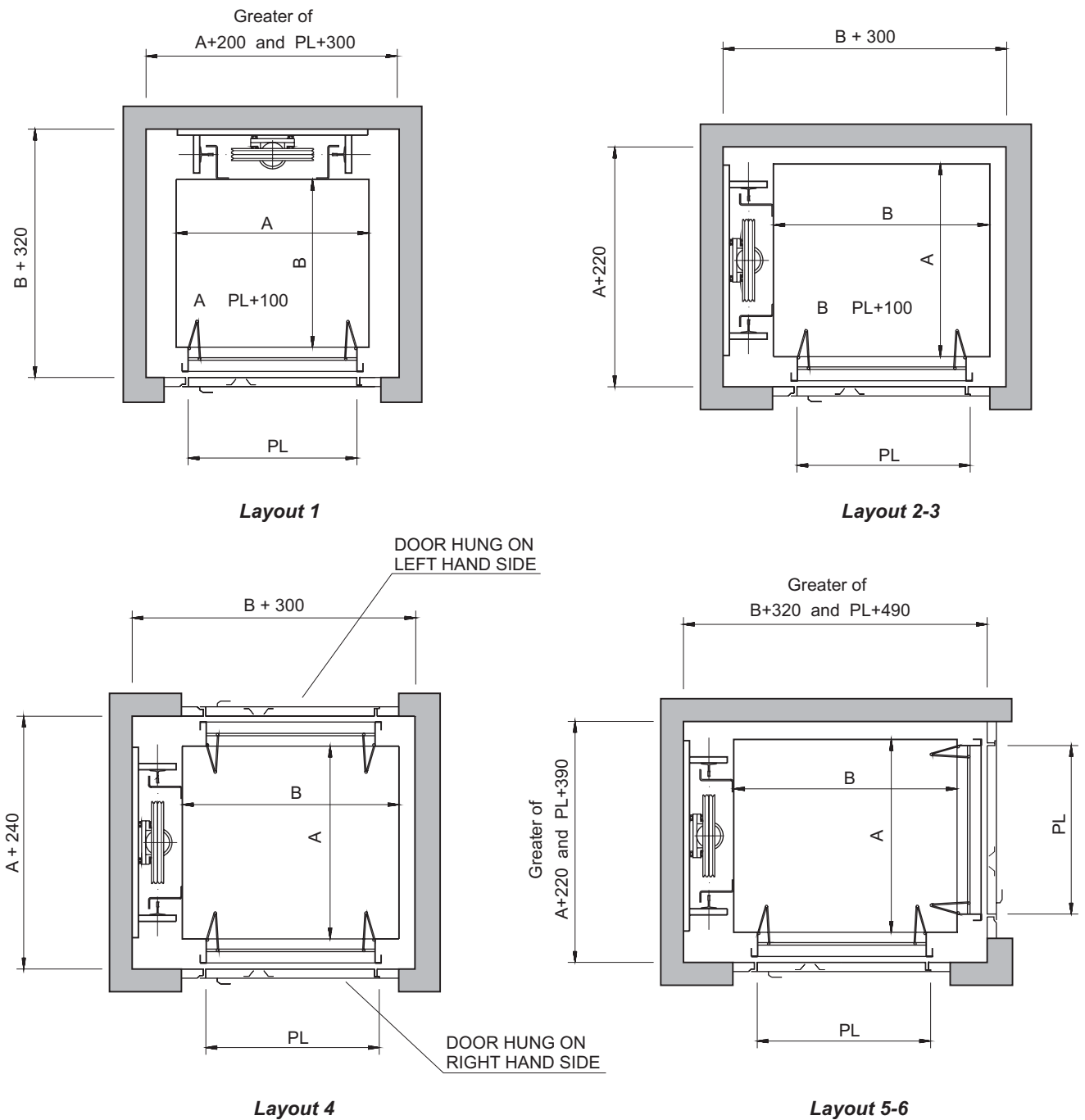


Figure 3.

Minimum shaft dimensions (plan view).
 Wall mounting.
 3-panel side opening car doors (Telescopic).
 3-panel side opening landing doors (Telescopic).

LIFT CAR DIMENSIONS						
Types		A min.	B min.	A max.	B max.	PL
UHP	Layout 1	700	600	1000	900	600, 650 ó 700
	Layouts 2, 3 y 4	800	700	1000	900	
UHM	Layout 1	900	700	1200	900	800
	Layouts 2, 3 y 4	800	950	1200	950	

- Note:
- For wheelchairs choose model UHM with maximum dimensions; in this case only layouts 2,3 and 4 are available.
 - The minimum shaft sizes given are calculated with the tracks overhanging by 15 mm. The tracks can overhang by up to 135 mm from the side of the shaft.

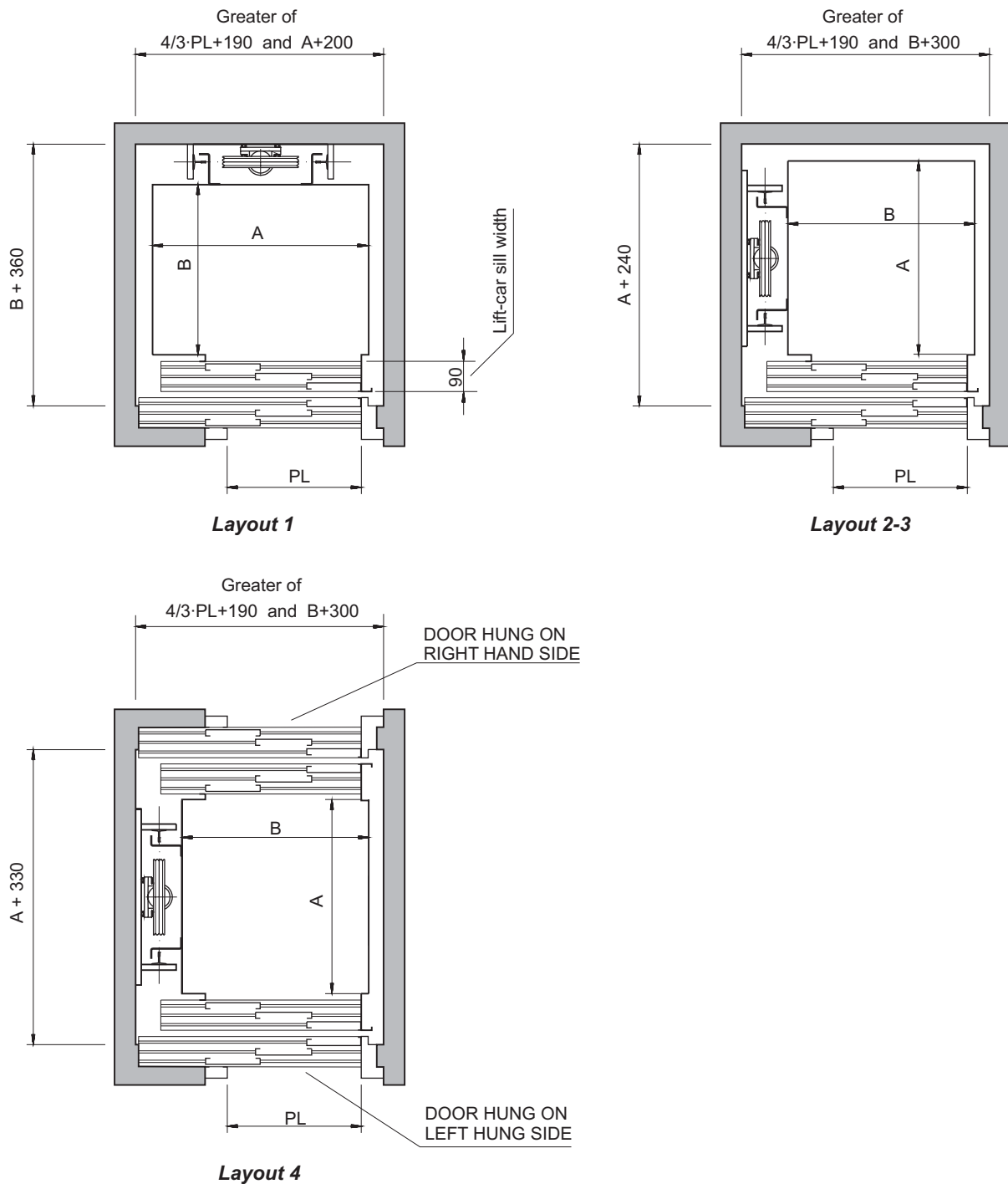


Figure 4. Minimum shaft dimensions (plan view).
 With self-supporting structure.
 Only requires anchoring to each floor.
 Folding "bus" type car doors.
 Semi-automatic swing landing doors
 (mounted on the self-supporting structure).

LIFT CAR DIMENSIONS					
Types	A min.	B min.	A max.	B max.	PL
UHP	750	600	1000	900	600, 650 ó 700
UHM	900	700	1200	900	800

Note: - For wheelchairs choose model UHM with maximum dimensions;
 in this case only layouts 2,3 and 4 are available.
 - Indicated measurements corresponding to the structure dimensions,
 minimum required shaft will be 30 mm greater in both sides.

