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CAR DIMENSIONS AND RATED LOADS

Model	Rated load kg	Car mm				Shaft* mm		Landing door mm	
		CW	CD 1A*	CD 2A*	CH	SW**	SD	DW	DH
B	500	1060	1280	1310	2000	1550	1450	1010	2000
B	750	1060	1280	1310	2000	1550	1450	1010	2000
B	1000	1060	1280	1310	2000	1550	1450	1010	2000
EU	500	1360	1280	1310	2000	1850	1450	1310	2000
EU	750	1360	1280	1310	2000	1850	1450	1310	2000
EU	1000	1360	1280	1310	2000	1850	1450	1310	2000
S	750	1060	1780	1810	2000	1550	1950	1010	2000
S	1000	1060	1780	1810	2000	1550	1950	1010	2000
D	1000	1460	1480	1510	2000	1950	1650	1410	2000
D	1400	1460	1480	1510	2000	1950	1650	1410	2000
DS	1000	1460	1780	1810	2000	1950	1950	1410	2000
DS	1400	1460	1780	1810	2000	1950	1950	1410	2000
XDS	750	1460	2180	2210	2000	1950	2350	1410	2000

CD 1A* = 1 Entrance excluding full height curtain photocell

CD 2A* = 2 Entrances excluding full height curtain photocell

SW** = add 450 mm at the bottom floor to allow space for the machine room located laterally.

Shaft* = for details on structure and shaft dimensions, please refer to "Design Lay-outs and Drawings" of this document.

TECHNICAL FEATURES OF EACH MODEL

Models		500 B 500 EU	750 B 750 S 750 EU	1000 B 1000 EU 1000 S 1000 D 1000 DS	1400 D 1400 DS	750 XDS
Nominal speed	m/s	0.13	0.13	0.13	0.13	0.13
Suspension		2:1	2:1	2:1	3:1	2:1
Number of ropes/diameter		3/9	4/9	4/9	4/9	4/9
Number of pulley		4	4	4	4	4
Electrical motor	kW	3	3	3	3	3
	cos φ	0.8	0.8	0.8	0.8	0.8
RPM at 50 Hz	rpm	920	920	920	1380	920
Number of poles		6	6	6	4	6
Number of starts per hour		120	120	120	120	120
Gear 230 V 3-phases	A	12.6	12.6	12.6	11.3	12.6
Gear 400 V 3-phases	A	7.3	7.3	7.3	6.5	7.3
Type		M73 B	M73 B	M73 B	M73 B	M73 B
Ratio		1:75	1:75	1:75	1:75	1:75
Traction sheave diameter		400	400	400	400	400
Trapezoidal groove angle		36°	36°	36°	36°	36°
INSTALLATION						
Standard pit	mm	150	150	150	150	150
Minimum headroom						
Machinery Directive 2006/42/CE	mm	2920	2920	2920	3150	2920



TECHNICAL FEATURES OF ALL MODELS

Operation

Fully automatic push button operation with call and despatch facilities; "lift arrival" and "lift occupied" indicators fitted at each entrance. Costant pressure push button in the car. Automatic operation at landing with light indicator for car present.

Electrical supply

230/400 Vac - 3 phases - 50 Hz.

Stops

Up to 5.

Travel

Up to 15 m.

Car

Constructed in steel sheeting finished in grey baked enamel RAL 7038, with heavy duty rubber covered floor with 2 car opposite entrances option.

Bump rail car protection as standard.

Ceiling light fixture.

Ceiling panel opening for inspection by triangular key and opening of safety line by opening contact placed on it for maximum safety during maintenance.

Overload device with ring bell as standard.

Car operation panel with costant pressure push button. Key switch to enable car push button and to disable landing push buttons (ON position). Landing push button panels work when key switch in the car is in OFF position. Emergency stop push button.

Car operation panel with captive screws.

Car standard height 2000 mm. Available on request height 2200 mm only for 500-750-1400 kg models (OPTIONAL).

Car entrance protection

Car without doors. Access protected by full height curtain photocell cat. 2 with safety relay.

Microfreight Plus: design



Car with push button and bump rails



TECHNICAL FEATURES OF ALL MODELS

Landing doors

Single or double hinged in anti-rust prime painted RAL 7038 finish, fitted with locks and electrical safety device. NOTE: the finish in anti-rust paint must be considered as the prime paint to be used for transportation and for the starting of the installation. The doors supplied in anti-rust painted finish must be re-painted at site. The claim for any spot and/or scratch on the surface of the paint caused by the packing and during transportation won't be accepted.

Doors connected with internal cladding fixed to the structure to avoid sharp edges or discontinuities during the travel.

Internal closure handle.

Bottom floor landing doors with manual reset contact.

Fire resistant doors EI 60 - EI 120 (OPTIONAL).

Landing door window with wired glass (OPTIONAL).

Gear unit

Located on a bed plate fixed to the lift structure. Gear with auxiliary brake on the output shaft controlled by booster. It avoids uncontrolled movements of the car during loading and unloading operations.

It incorporates a flywheel for emergency operation and a lever to release the brake.

Machine room cabinet

Constructed in grey baked enamel RAL 7038, fitted with ceiling lighting fixture and doors with thrust locking and key unlocking.

Structure supported frame

Constructed in grey baked enamel profiles RAL 7038, Gloss 30.

Telescopic headroom uprights for on site adjustments.

3rd guide

As standard for all models.

Modular shaft enclosure (OPTIONAL)

Constructed in grey baked enamel RAL 7038 panels. Can be fitted after installation without drilling.

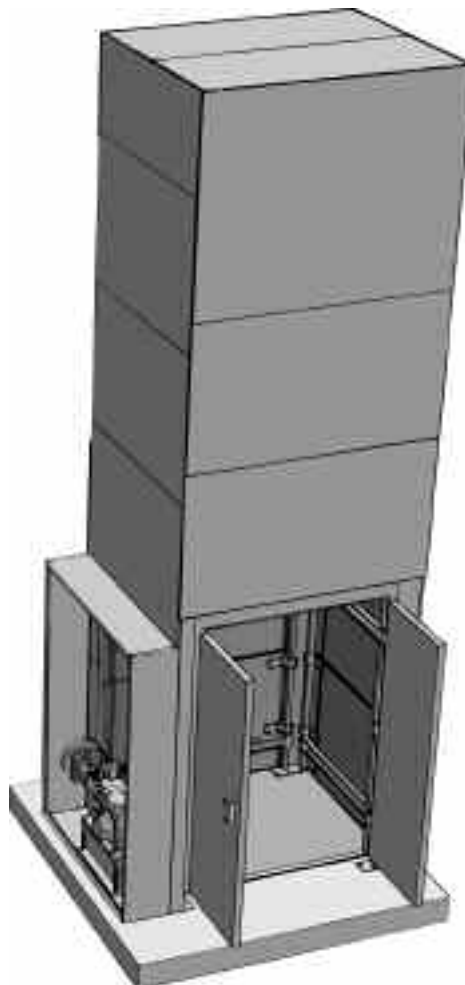
Other options

Shaft lighting kit and power supply sockets in the shaft.

Power supply panel with differential magnetothermal switch.

Counterweight safety gear.

Modular shaft enclosure (optional)



TECHNICAL FEATURES OF ALL MODELS

Installation

Microfreight Plus has a structure supported frame with panels finished in grey baked enamel RAL 7038 for longer life as standard. A solid base and support at each floor is all that is needed.

Microfreight Plus can be installed in any internal place, anchored on 2 sides.

Installation times

A 2 stops Microfreight Plus can be installed in few days, depending on the site conditions.

Delivery

Short delivery times.

Policy of development

Microfreight Plus undergoes continuous development. We reserve the right to alter specifications and dimensions without prior notice.

Safety

In compliance with safety norms in force, all models feature the following safety device as standard:

- 1) Slack rope device.
- 2) Retiring cam to unlock landing doors.
- 3) Over flight timer.
- 4) Safety pit props for maintenance operations at lower floor level (either manual or automatic).
- 5) 2.5 m. heigh counterweight protection in pit.
- 6) Gear with auxiliary brake on the output shaft controlled by booster. It avoids uncontrolled movements of the car during loading and unloading operations.
- 7) Protection cover for diverters pulleys and gear flywheel.
- 8) Visible marker to indicate car approaching the floor to make safe the emergency operations from the machine room cabinet.
- 9) Car bi-directional progressive safety gear with overspeed governor.
- 10) Emergency battery: in case of energy cutoff it keeps lighting in the car, activates acoustic external emergency signal, controls manual reset contact to bottom floor landing doors.

Guarantee

Microfreight Plus is guaranteed for 12 months from delivery date, providing it is serviced regularly.

Reference norms and regulations

Machinery Directive 2006/42/CE with reference to EN81.31.

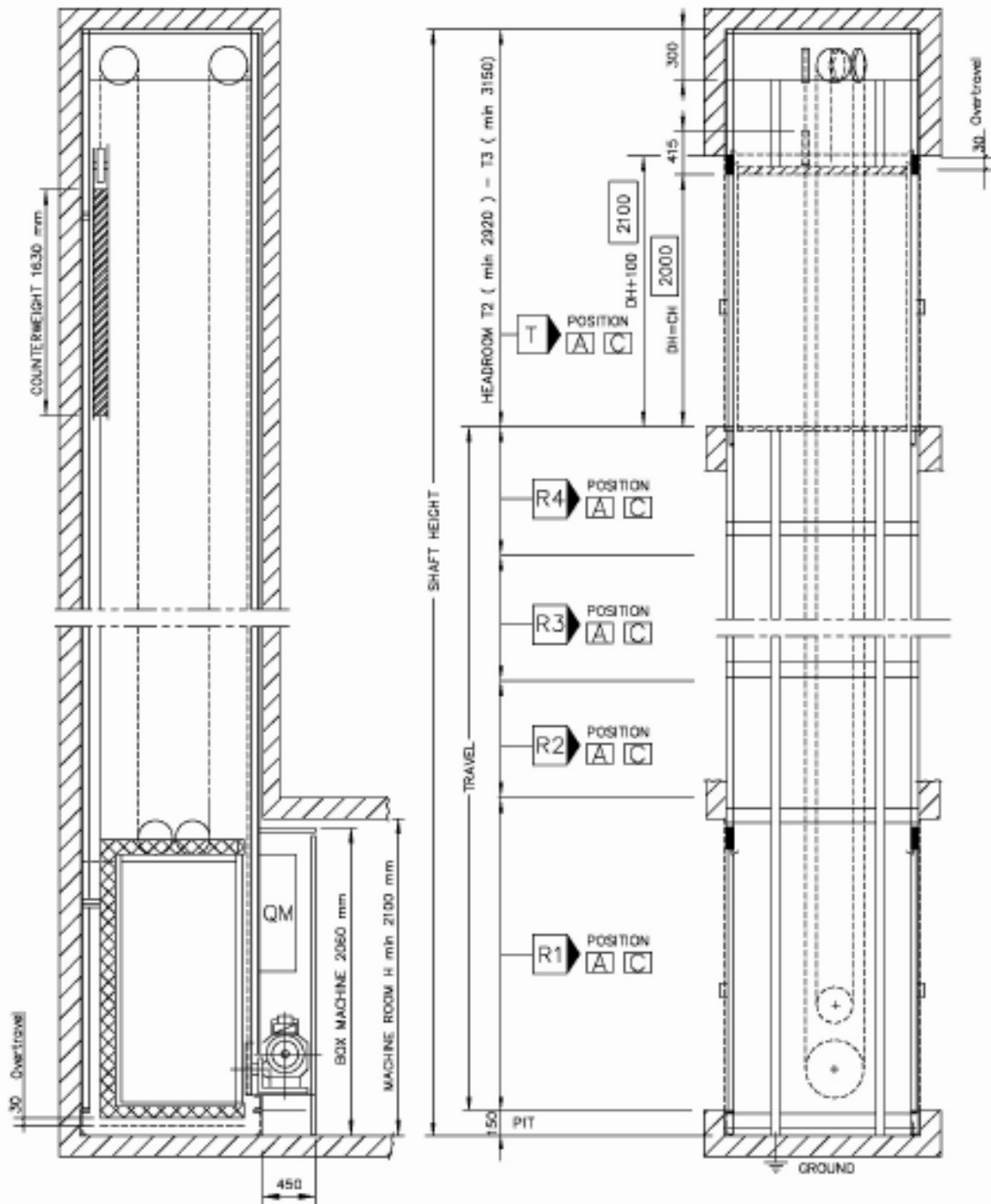
Electromagnetic Compatibility 2004/108/CE.

Italian DM January, 14 2008.

CR-UNI 10011 - June 1988.

Other certifications valid for specific Countries.

DESIGN LAY-OUTS AND DRAWINGS



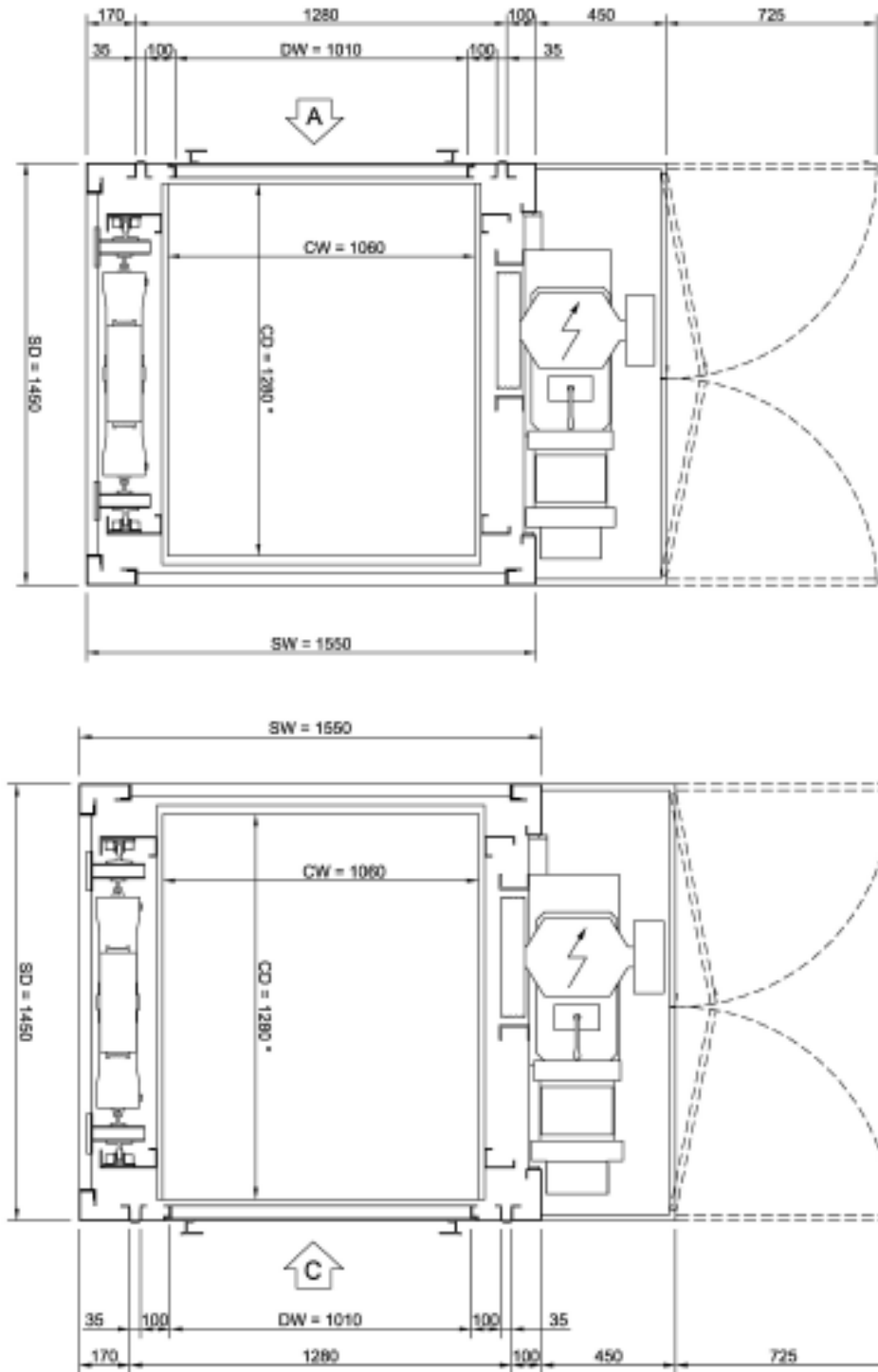
NB: Drawing only as for reference. Machine room cabinet positioned at floor different to bottom floor (OPTIONAL).

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Model B

Rated load 500-750-1000 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

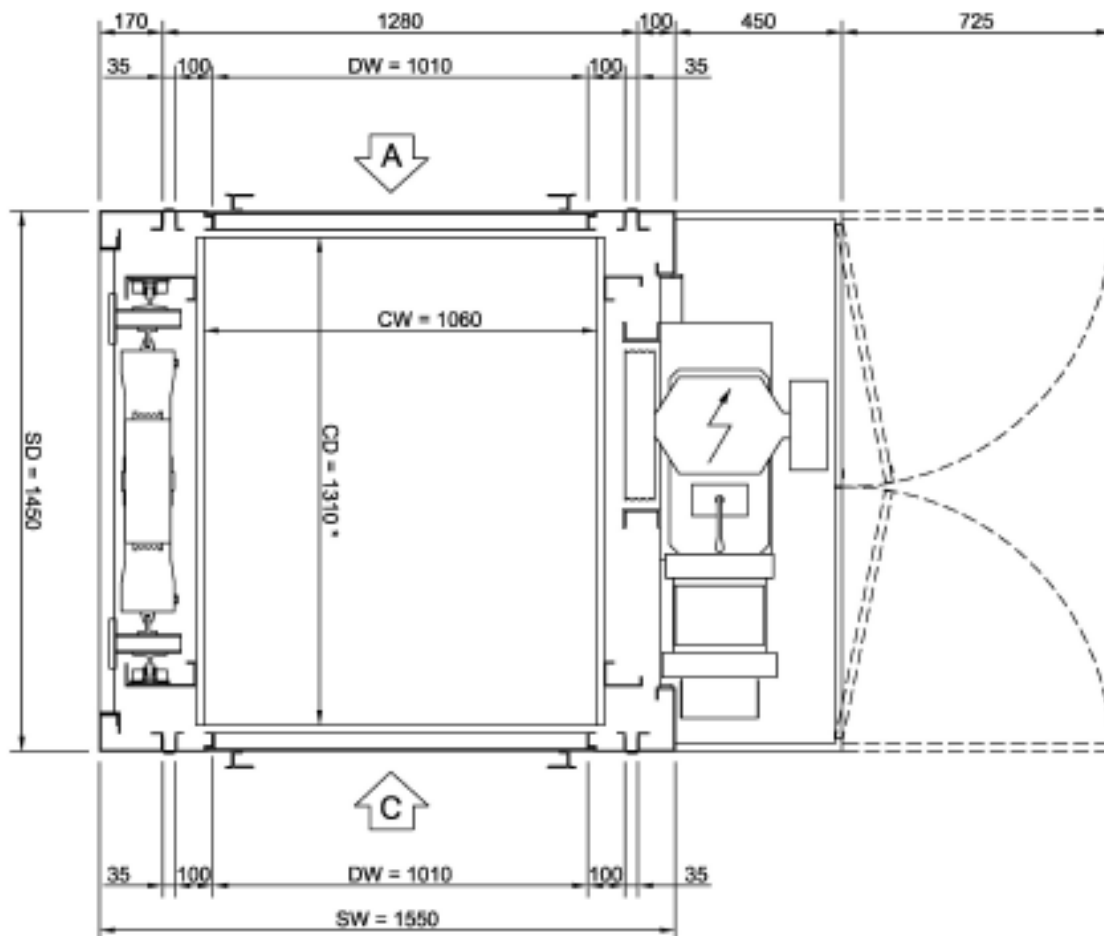
* With 1 entrance and full height curtain photocell net CD 1237 mm

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Model B

Rated load 500-750-1000 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

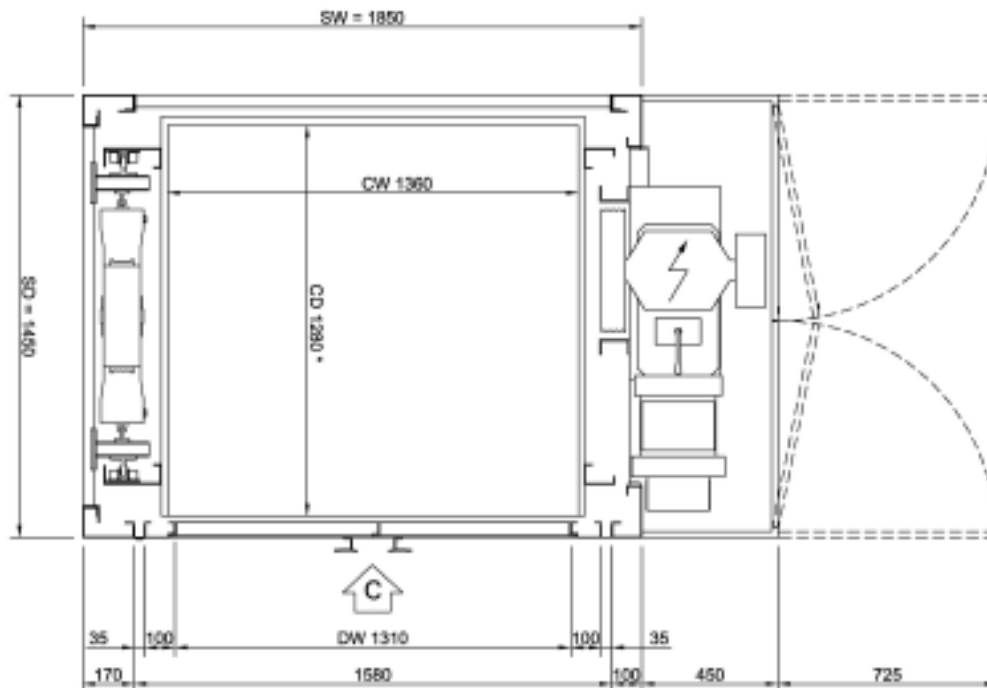
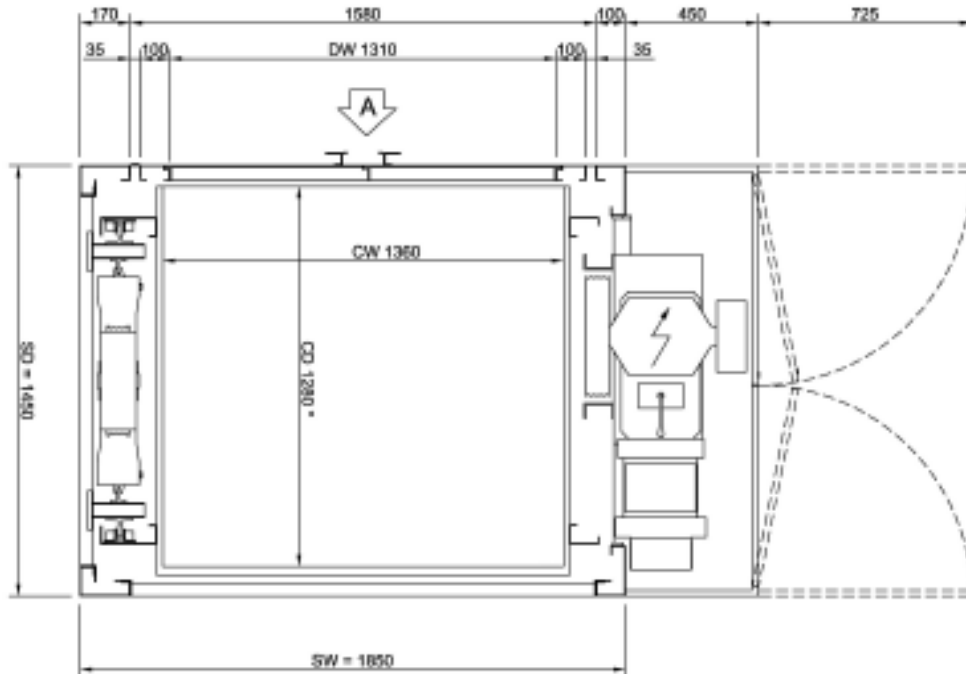
* With 2 entrances and full height curtain photocell net CD 1223 mm

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Model EU

Rated load 500-750-1000 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

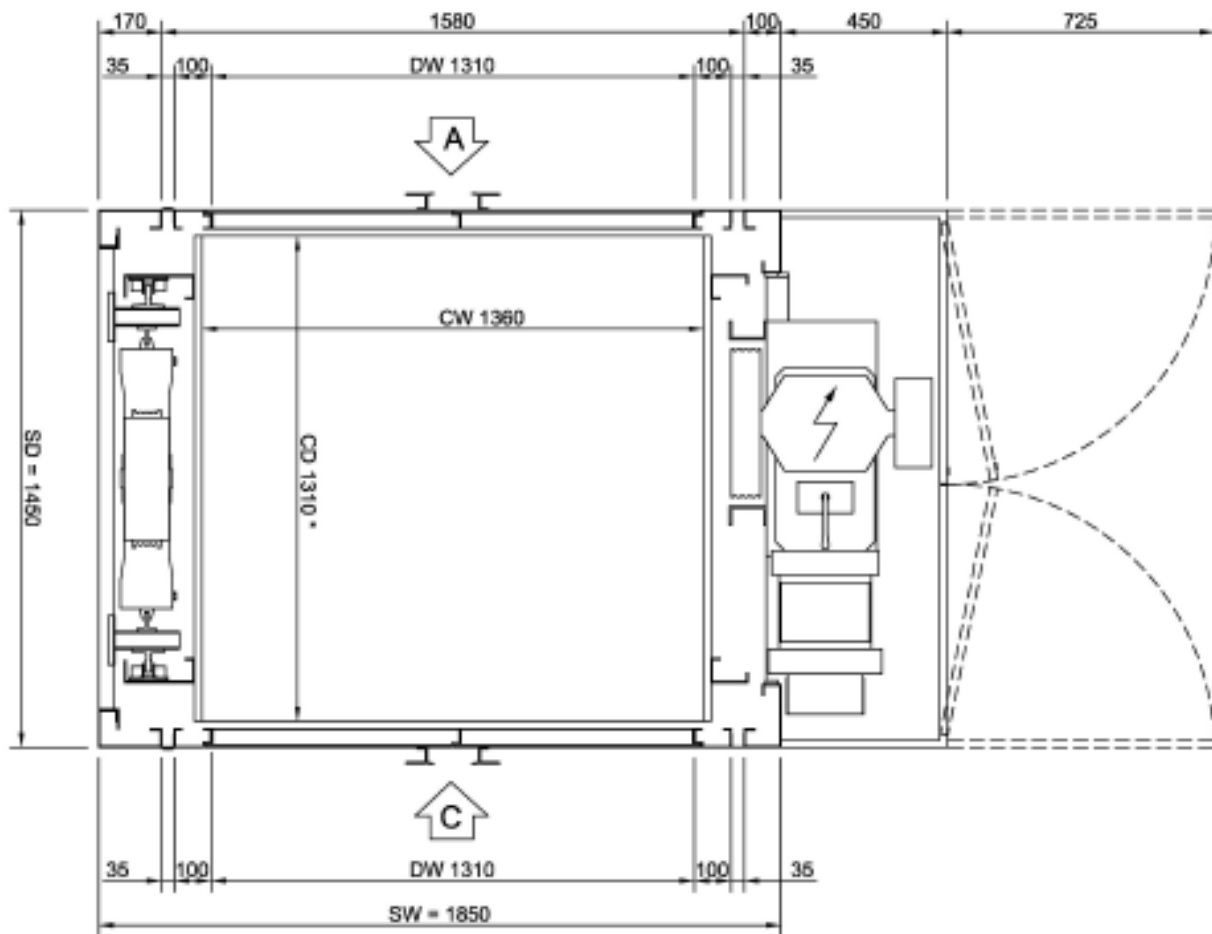
* With 1 entrance and full height curtain photocell net CD 1237 mm

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Model EU

Rated load 500-750-1000 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

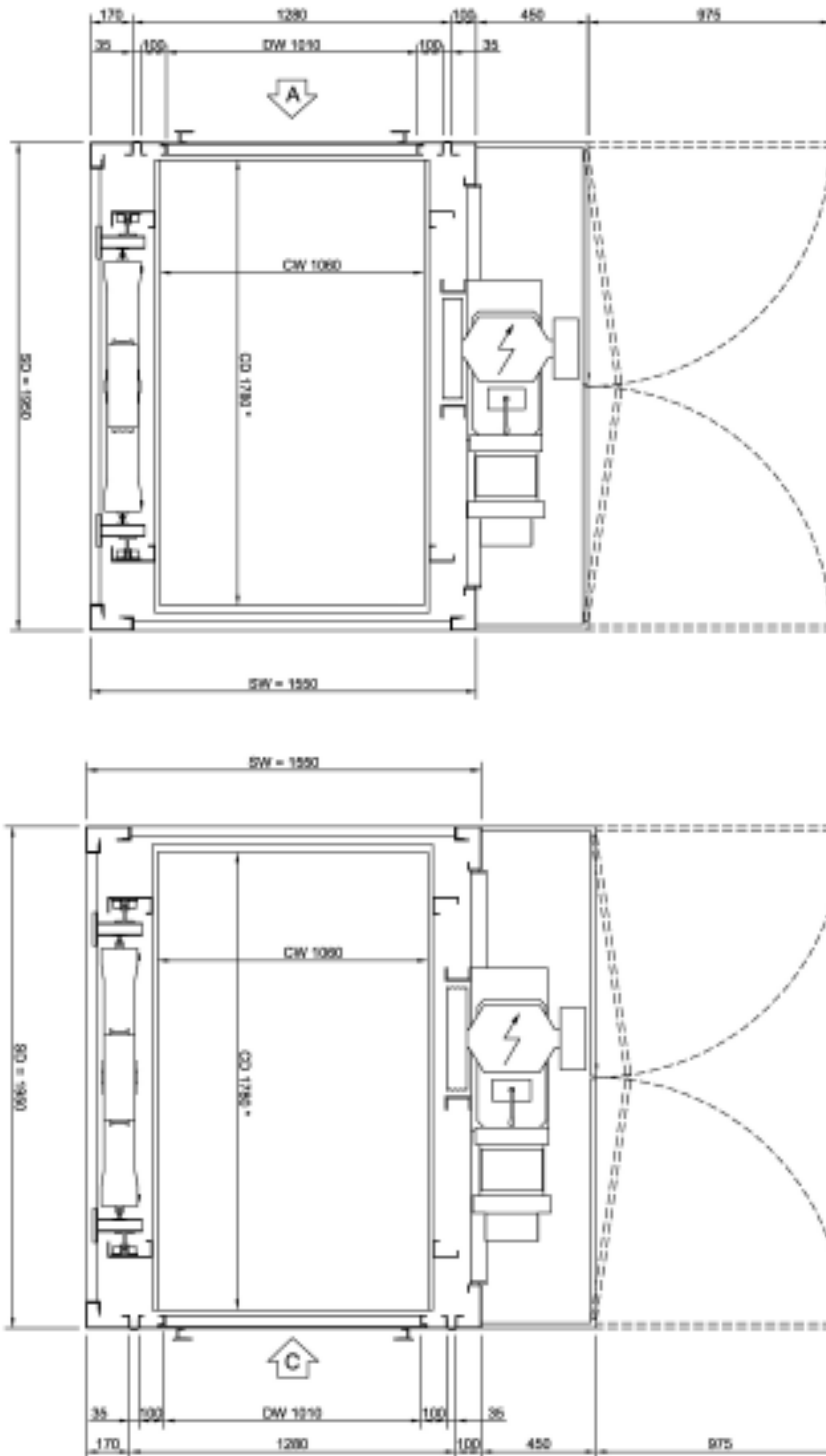
* With 2 entrances and full height curtain photocell net CD 1223 mm

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Model S

Rated load 750-1000 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

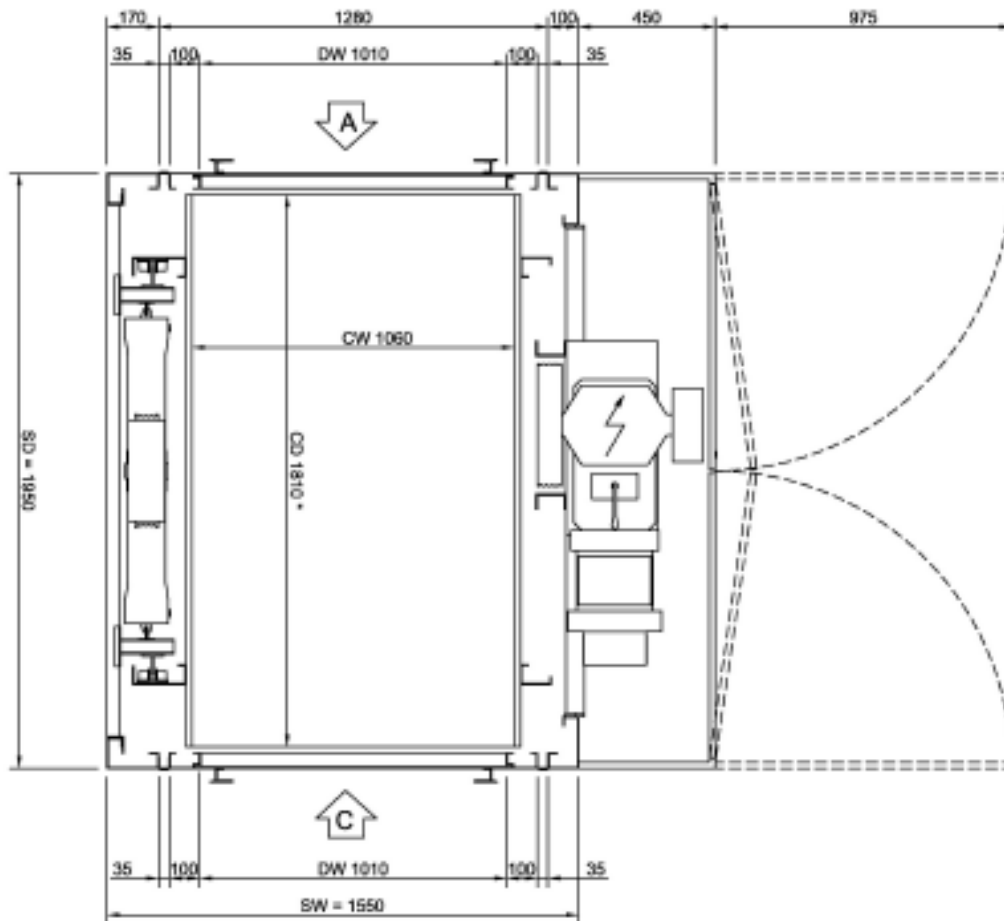
* With 1 entrance and full height curtain photocell net CD 1737 mm

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Model S

Rated load 750-1000 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

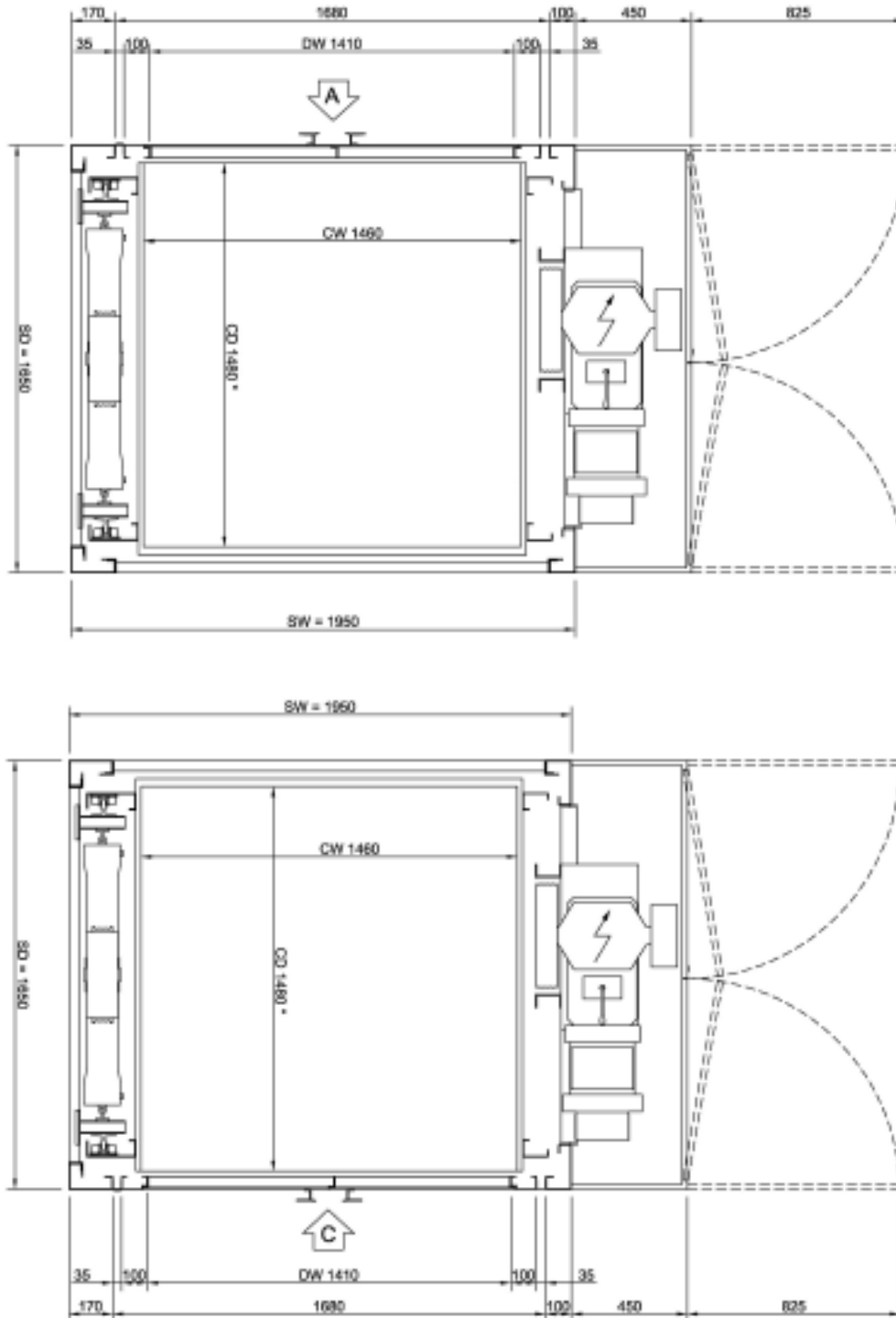
* With 2 entrances and full height curtain photocell net CD 1723 mm

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Model D

Rated load 1000-1400 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

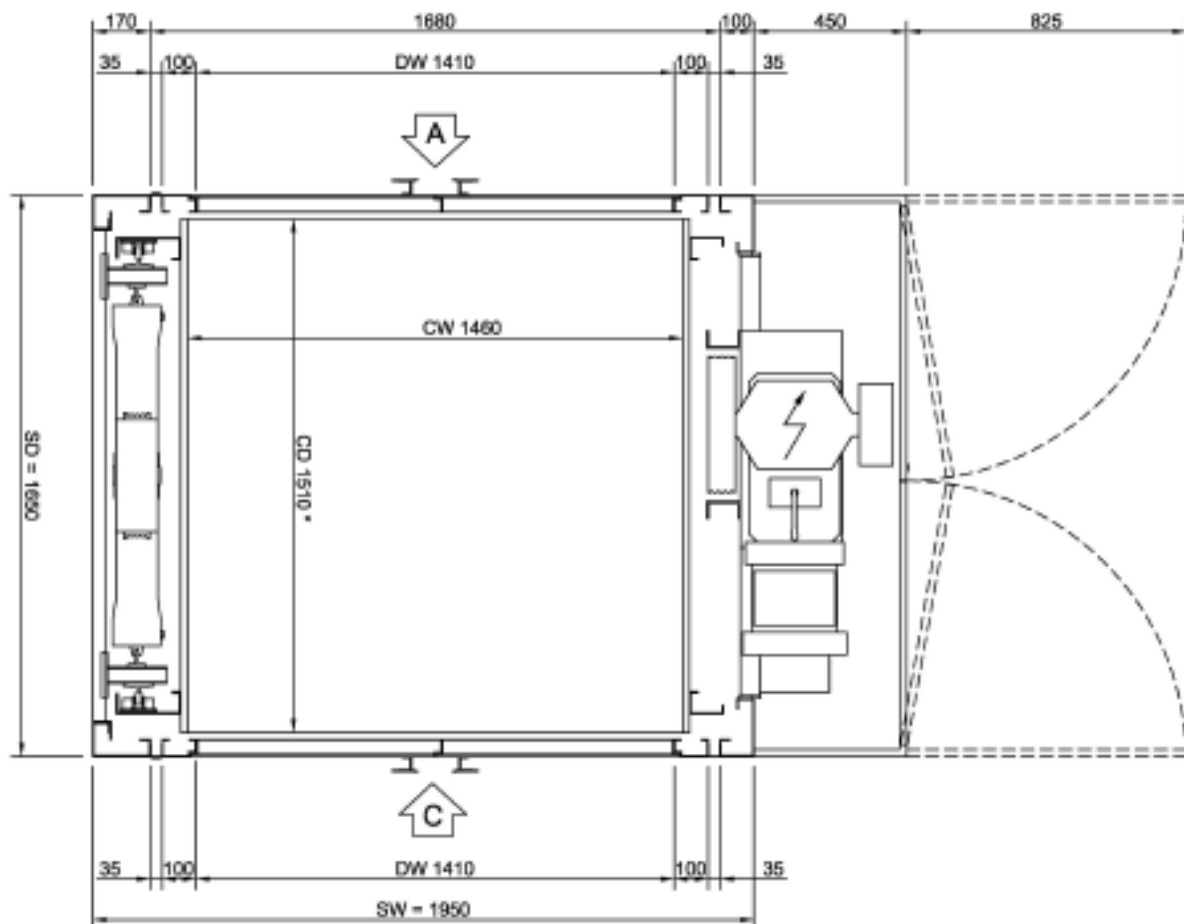
* With 1 entrance and full height curtain photocell net CD 1437 mm

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Model D

Rated load 1000-1400 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

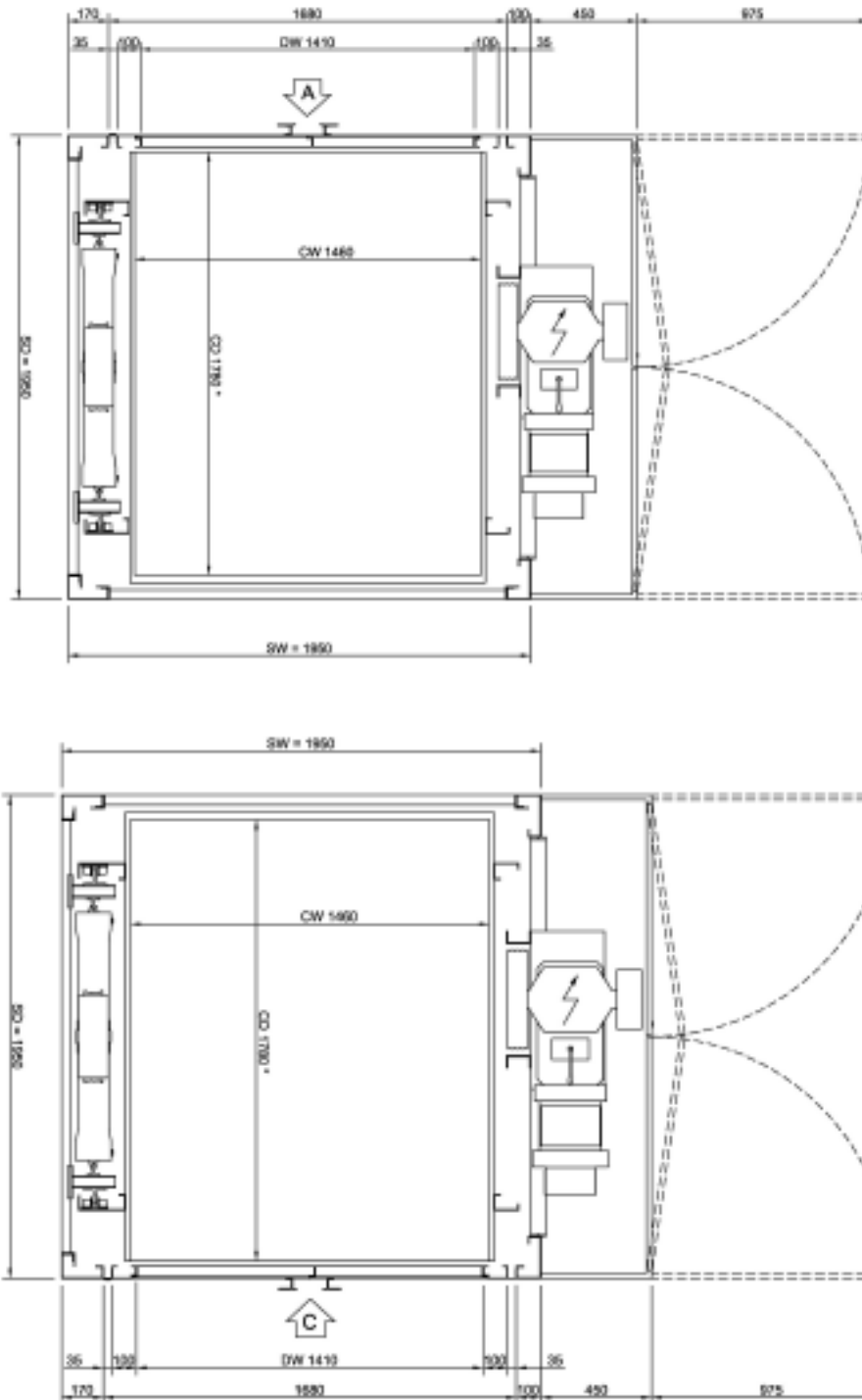
* With 2 entrances and full height curtain photocell net CD 1423 mm

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Model DS

Rated load 1000-1400 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

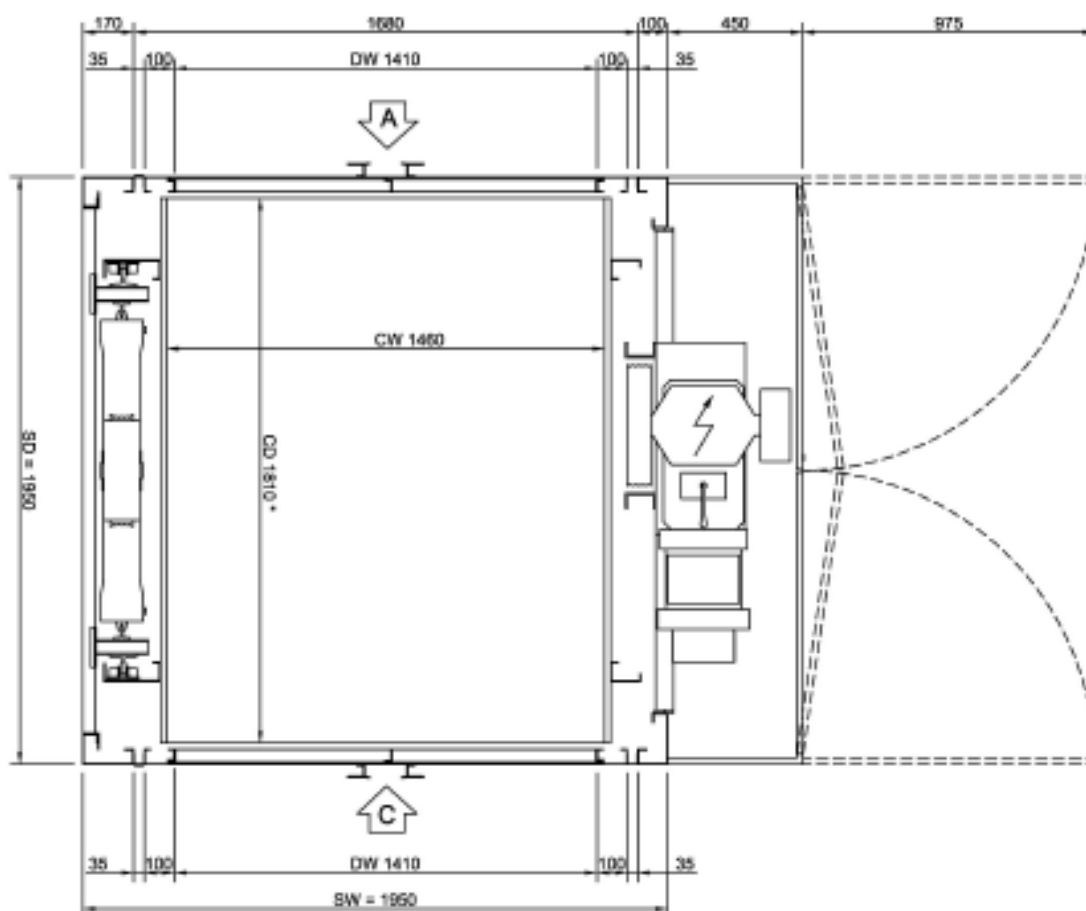
* With 1 entrance and full height curtain photocell net CD 1737 mm

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Model DS

Rated load 1000-1400 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

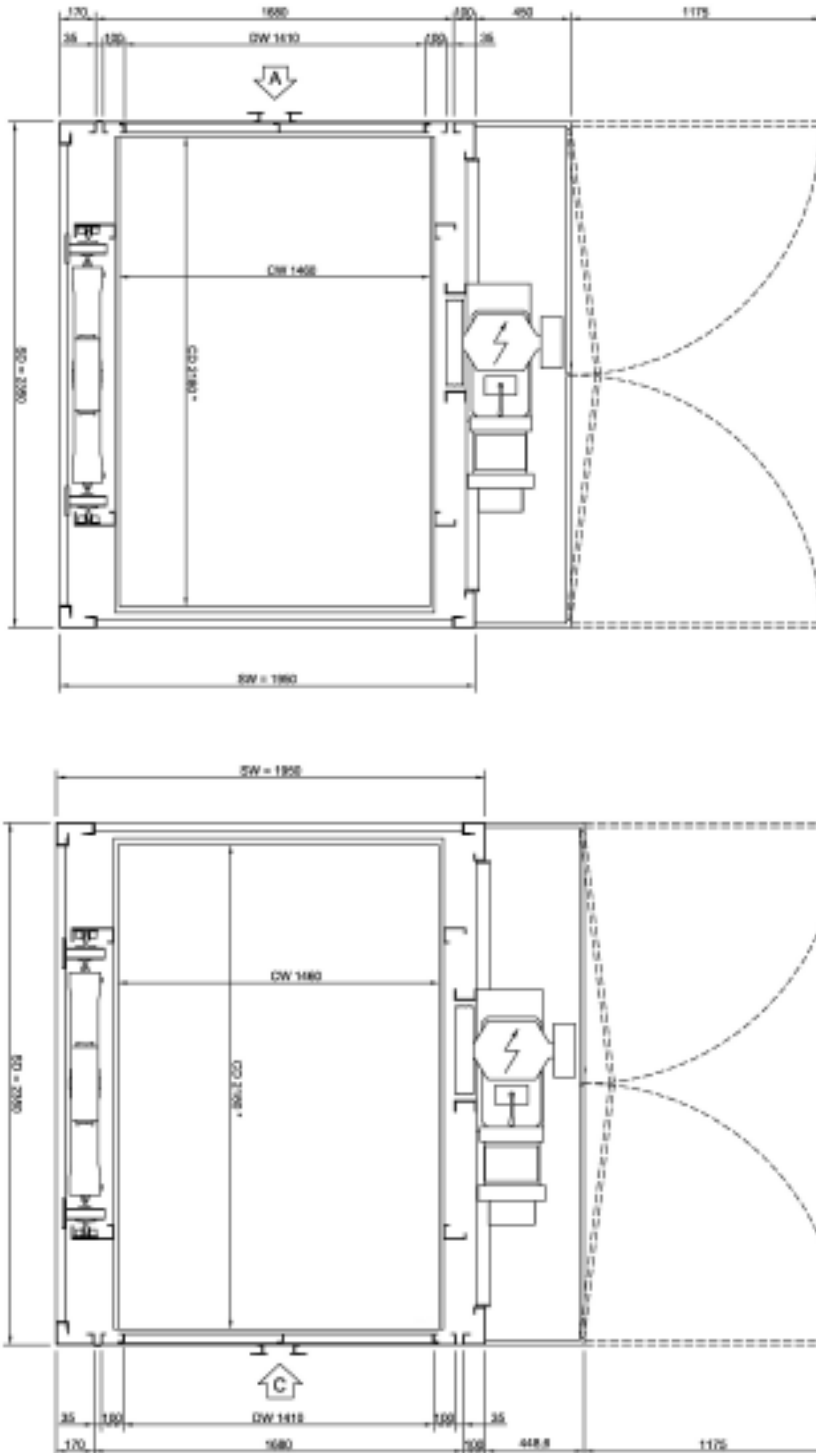
* With 2 entrances and full height curtain photocell net CD 1723 mm

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Model XDS

Rated load 750 kg

Entrances position A or C



Shaft dimensions = dimensions of external structure + 50 - 0

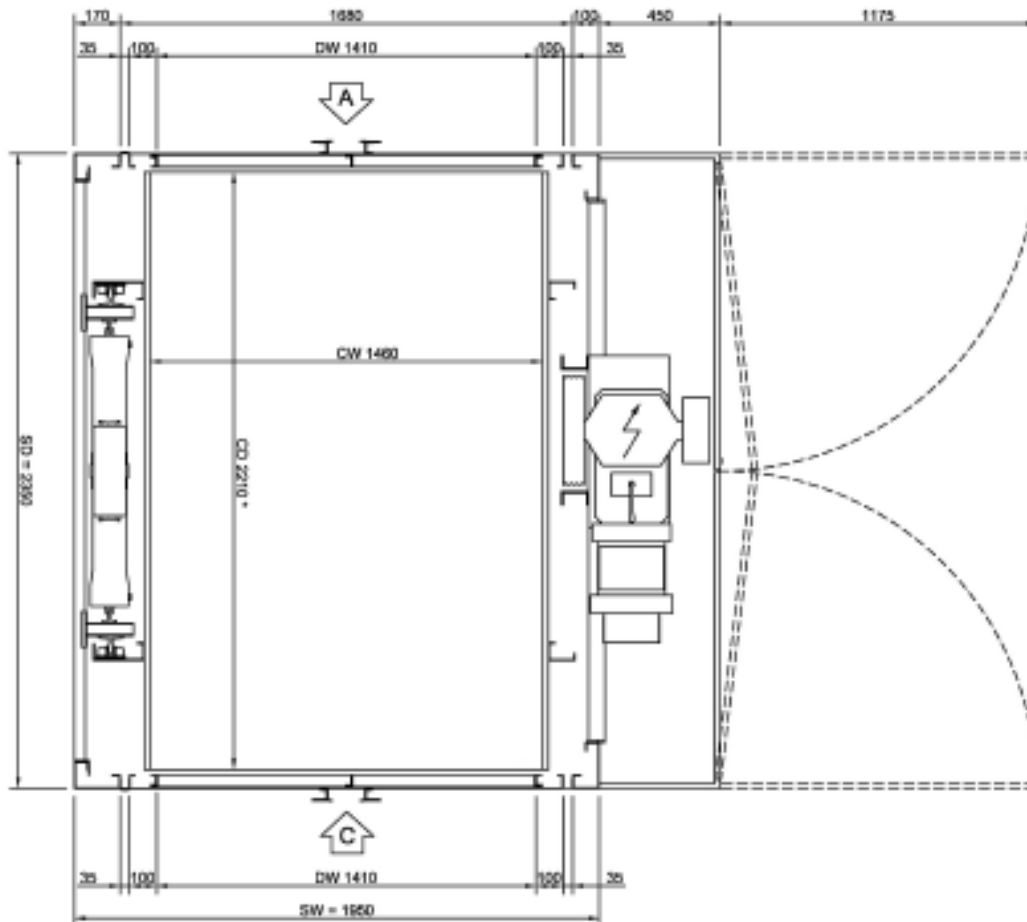
*With 1 entrance and full height curtain photocell net CD 2137 mm

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Model XDS

Rated load 750 kg

Entrances position A-C



Shaft dimensions = dimensions of external structure + 50 - 0

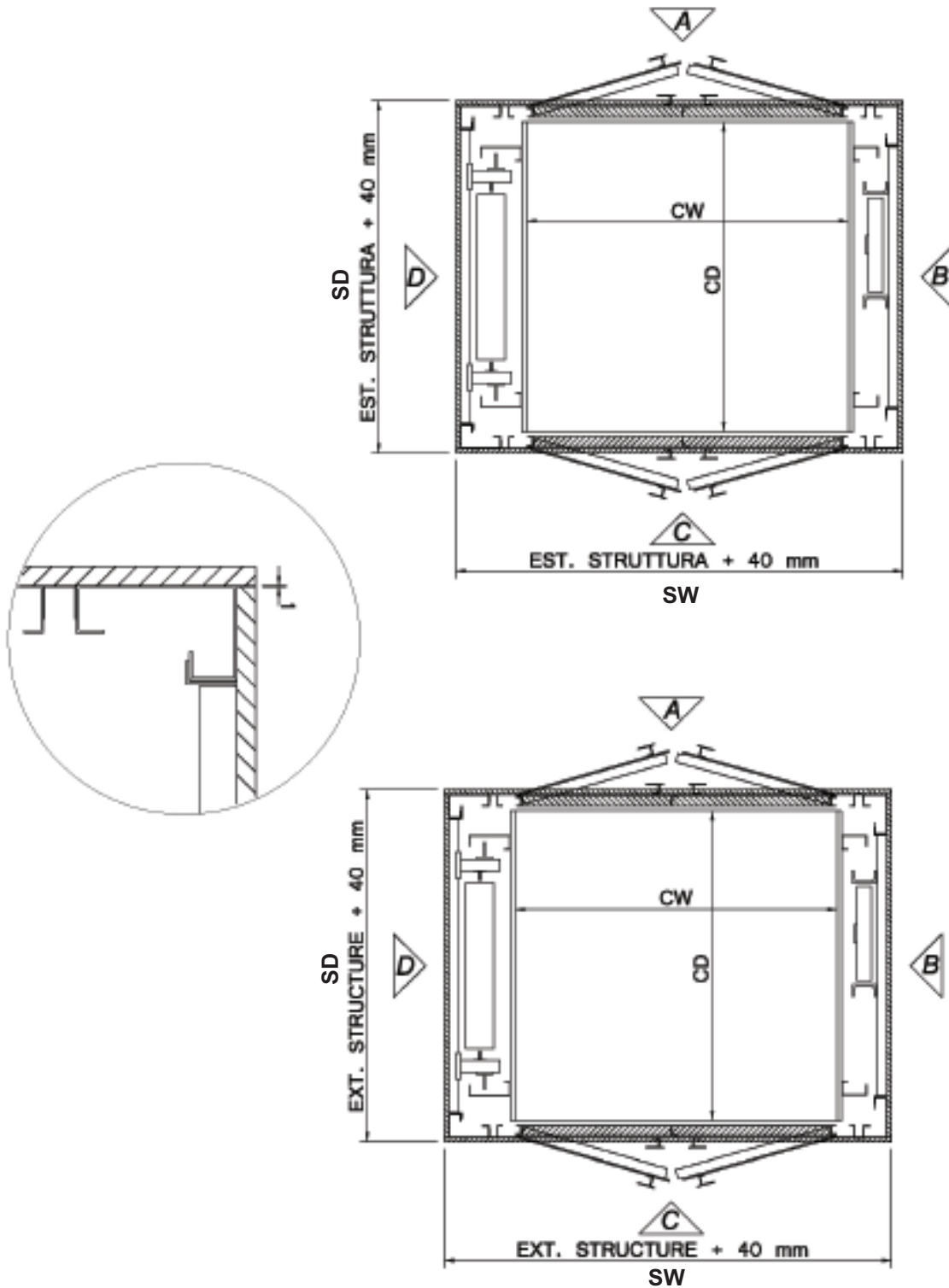
* With 2 entrances and full height curtain photocell net CD 2123 mm

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Lay-out of shaft enclosure (installed externally to the structure).

All Microfreight Plus models.

Entrances position A/C/A-C.



Dimensions of shaft enclosure

Side SW	External structure + 40 mm
Side SD	External structure + 40 mm

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NOTES
