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EH

TECHNICAL SPECIFICATIONS (APPENDIX)

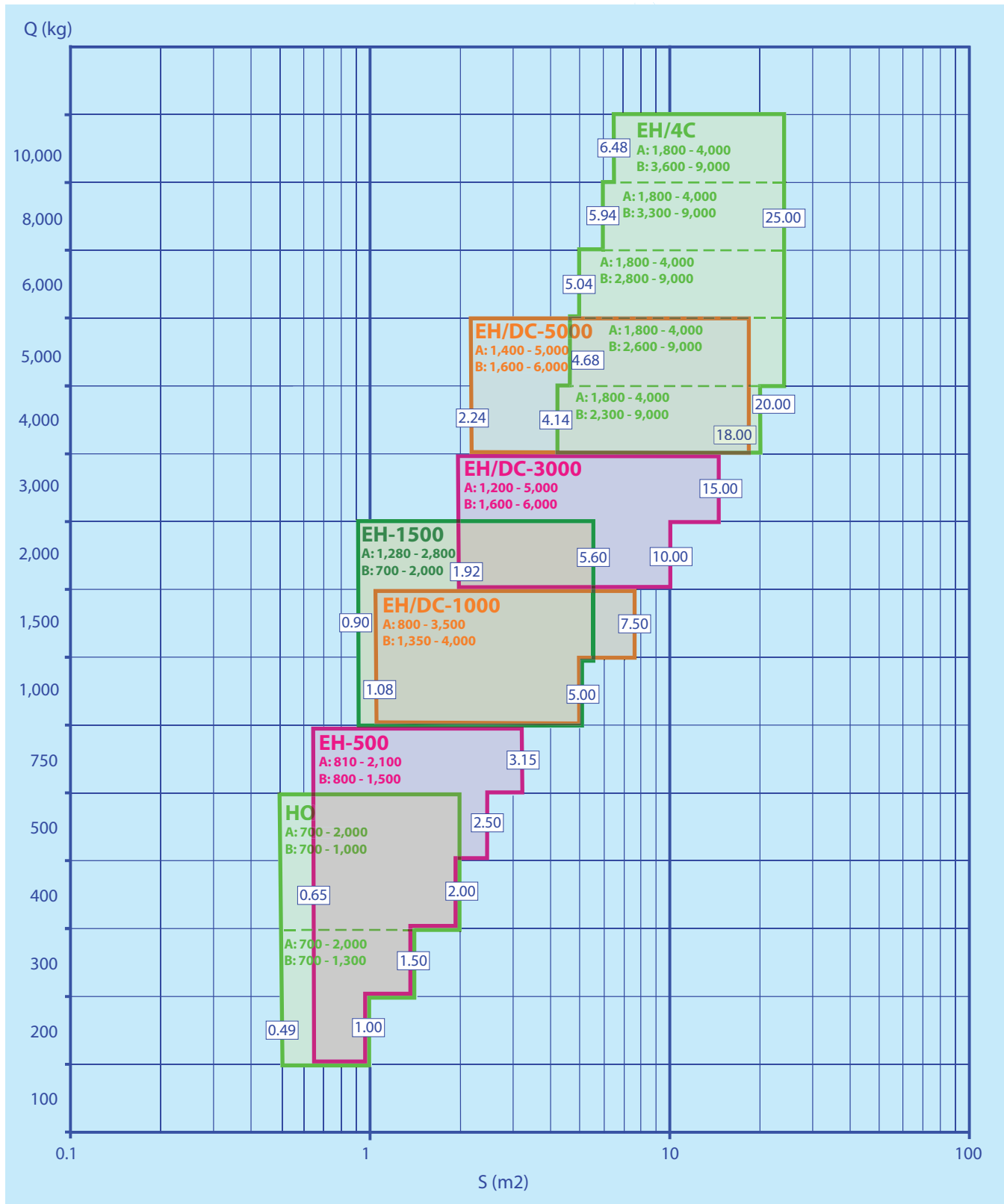


ETI-300
V.04
01/07/09



CONTENTS	PAGE
1.APPENDIX	4
1.1 Selecting model general diagram.	4
1.2 Interpretation of the selecting diagram.	5
1.3 Interpretation of tables.	5
1.4 HO model.	6
1.5 EH-500 model.	8
1.6 EH-1500 model.	10
1.7 EH/DC-1000, EH/DC-3000 and EH/DC-5000 models.	12
1.8 EH/DCL-3000 model.	14
1.9 EH/4C model.	16
1.10 Single and double manual hinged swing doors.	18

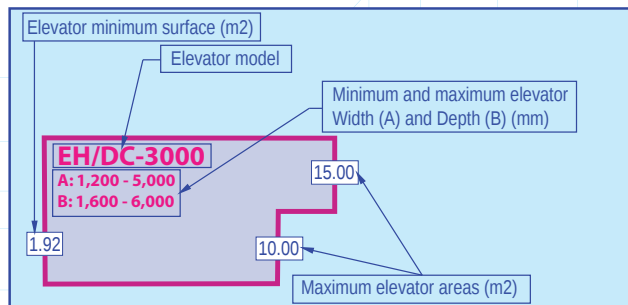
1.1. Selecting model general diagram.



Selecting model diagram according to maximum Load (Q) and maximum usable Load Area (S). The maximum surface is limited by the 200 kg/m² relation and by the A and B constructive maximums for each model.

1.2. Interpretation of the selecting diagram.

Here you can find an example how to read the previous Selection Diagram:



Take the needed rated load (axis X) and the needed loading surface (axis Y); then use the Selection Diagram with those datas and identify the model/s that could fulfill with the requirements. See more details about our elevators in the following pages, just to decide which one is better for your needs.

1.3. Interpretation of tables.

Following you can find a key note for the dimensions that are represented in the vertical hoistway requirements for all the models:

- Headroom height (**Hu**)
- Pit Depth (**F**)
- Protections/cabin height (**H**)
- Door clear height (**HL**)

Here you can find the key note for plan view for hoistway dimensions. The dimensions between the loading platform and the shaft wall have been stated for safety reasons to avoid personal risks during maintenance operations with the maintenance push button panel:

- Platform width (**A**)
- Platform depth (**B**)
- Distance to the shaft wall in lateral guiding columns (**DC**)
- Distance to the shaft wall in the side closings (**DL**)
- Reduction of the loading area due to handrails or inner bumpers (in case of walls or cabins)

These dimensions can be modified depending on several options available for each product.

- **Platform protections:** handrail or walls around the edge of the platform which define the loading surface, avoiding the possible shock of the load with the shaft structure or the load penetration in the guiding columns. Hidral offers four different options:

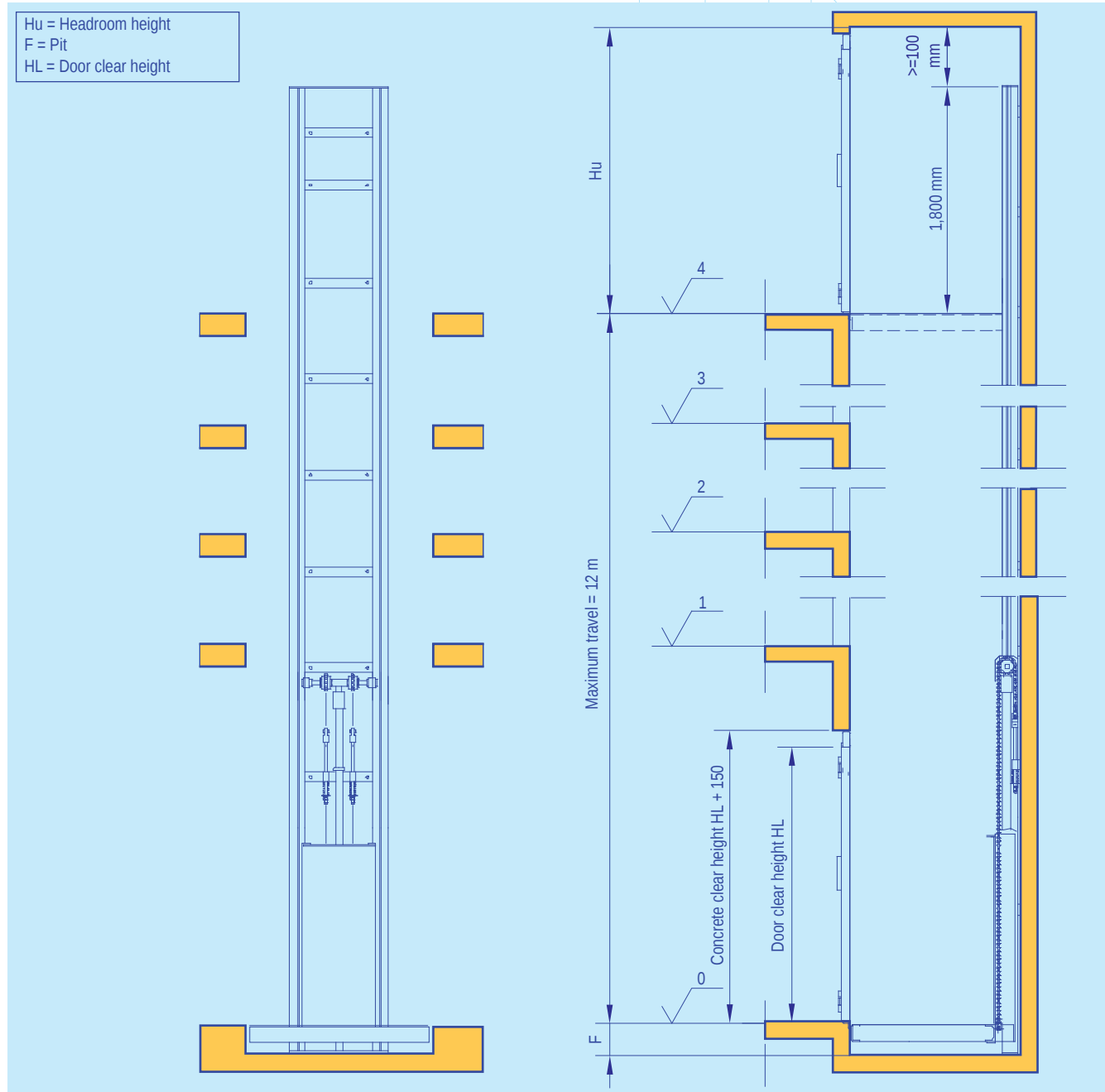
Platform carrier options
Without protections
With handrails
With walls-no roof
With cabin-no doors

All the dimensions have been stated according to Hidral swing doors requirements.

1.4. HO model.

Model	Available loads (Kg)
HO	100, 200, 300, 400 and 500

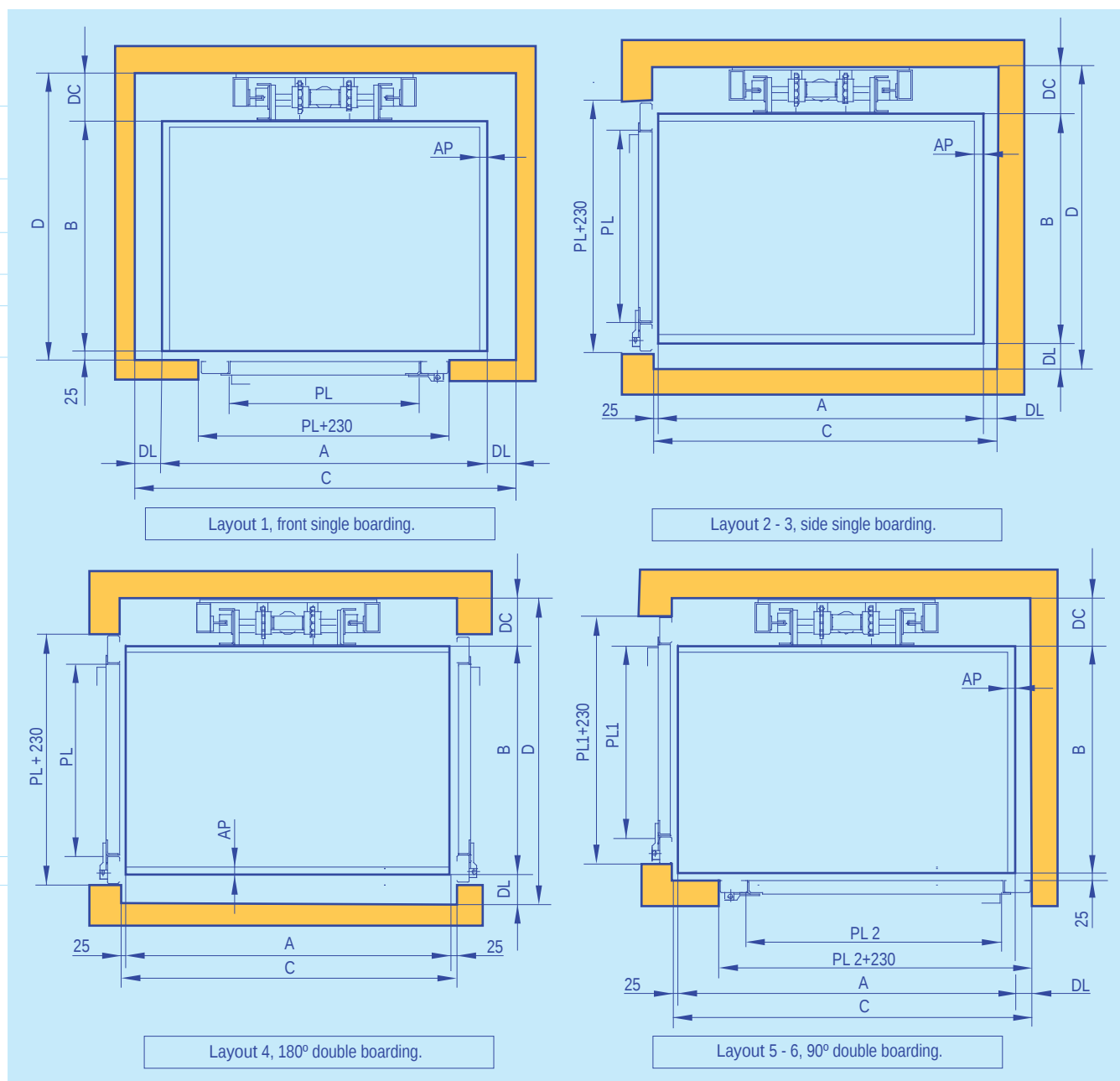
Minimum shaft dimension for HO model. Elevation view.



Dimension	Option	Value (mm)
Headroom height (Hu)		Take the maximum within: • 2,000 • HL + 250
Pit depth (F)	With safety gear	150 ÷ 700
Clear door height (HL)		2,000 ÷ 2,950

NOTES: The safety gear must be ordered for all the HO elevators. The pit must be between 150 and 700 mm. Consult us for lower pits. Walls (no roof) or cabin are not available for HO model.

Minimum shaft dimension for HO model. Plan view.

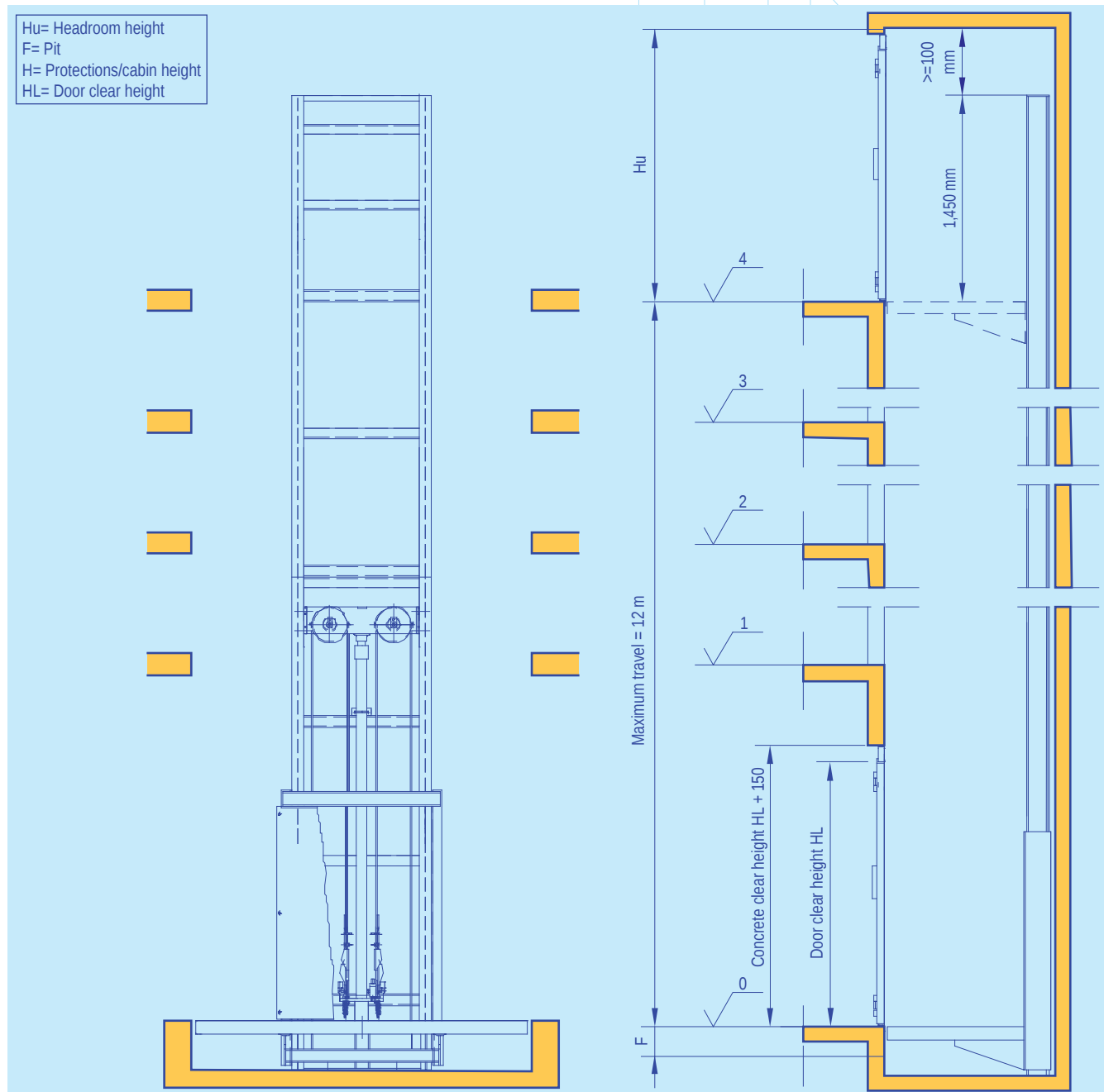


Dimension	Option	Value (mm)
Width (A)		700 ÷ 2,000
Depth (B)	Loads from 100 kg to 300 kg	700 ÷ 1,300
	Loads from 400 kg to 500 kg	700 ÷ 1,000
Distance to the hollow in lateral guiding columns (DC)		125 ÷ 180
Distance to the hollow in the side closings (DL)	Without handrails	25 ÷ 35
	With handrails	≥ 100
Loading area reduction (AP)	Without handrails	0
	With handrails	30

1.5. EH-500 model.

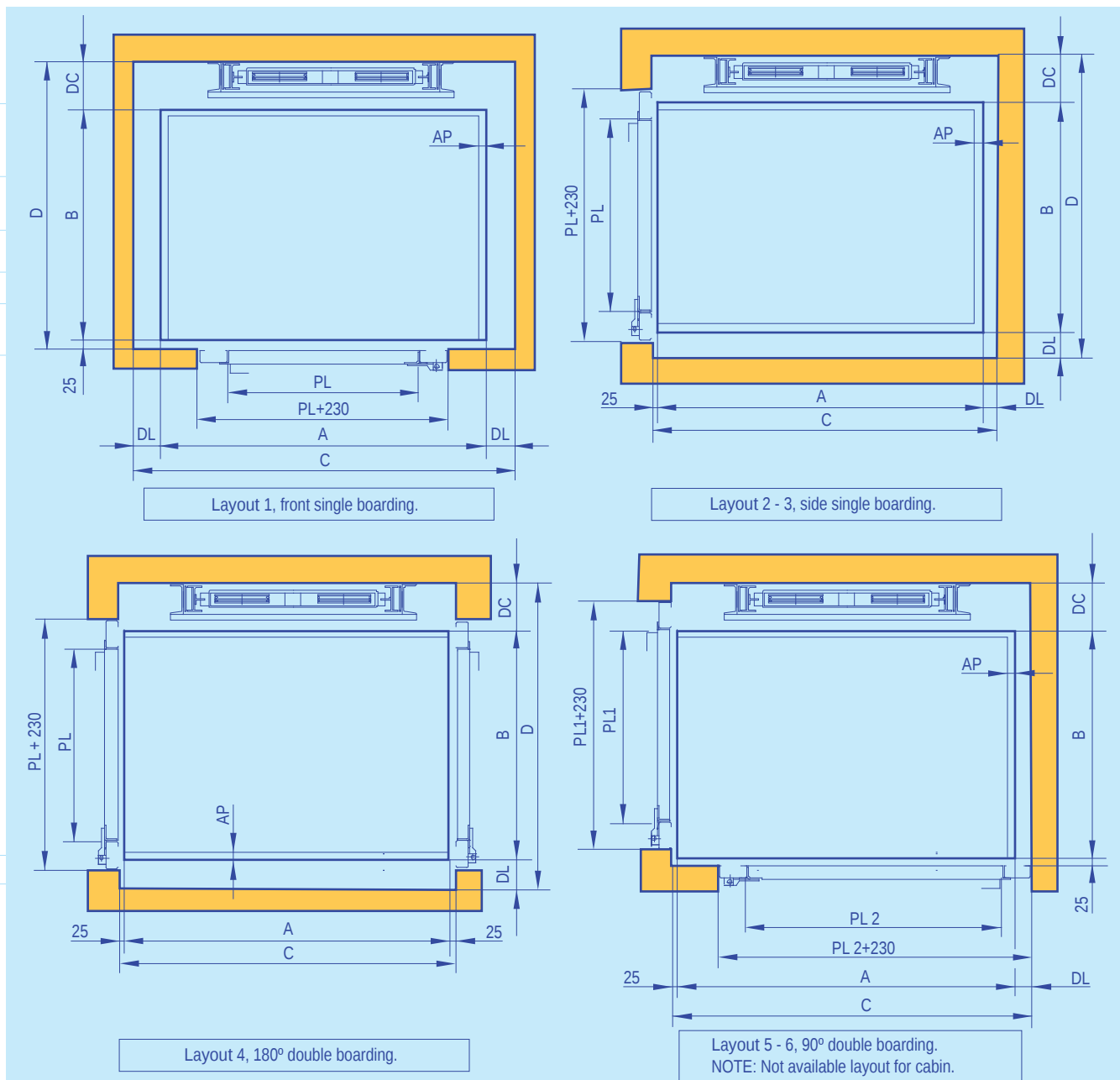
Model	Available loads (Kg)
EH-500	200, 300, 400, 500 and 750

Minimum shaft dimension for EH-500 model. Elevation view.



Dimension	Option	Value (mm)
Headroom height (Hu)	Without walls/cabin	Take the maximum within: • 2,000 • HL + 250
	With walls	H + 250
	With cabin	H + 350
Pit depth (F)		250 ÷ 1,200
Walls/cabin height (H)		2,000 ÷ 2,500
Clear door height (HL)	Without walls/cabin	2,000 ÷ 2,950
	With walls	2,000 ÷ 2,400 (HL ≤ H - 100)
	With cabin	2,000 ÷ 2,500 (HL ≤ H)

Minimun shaft dimension for EH-500 model. Plan view.



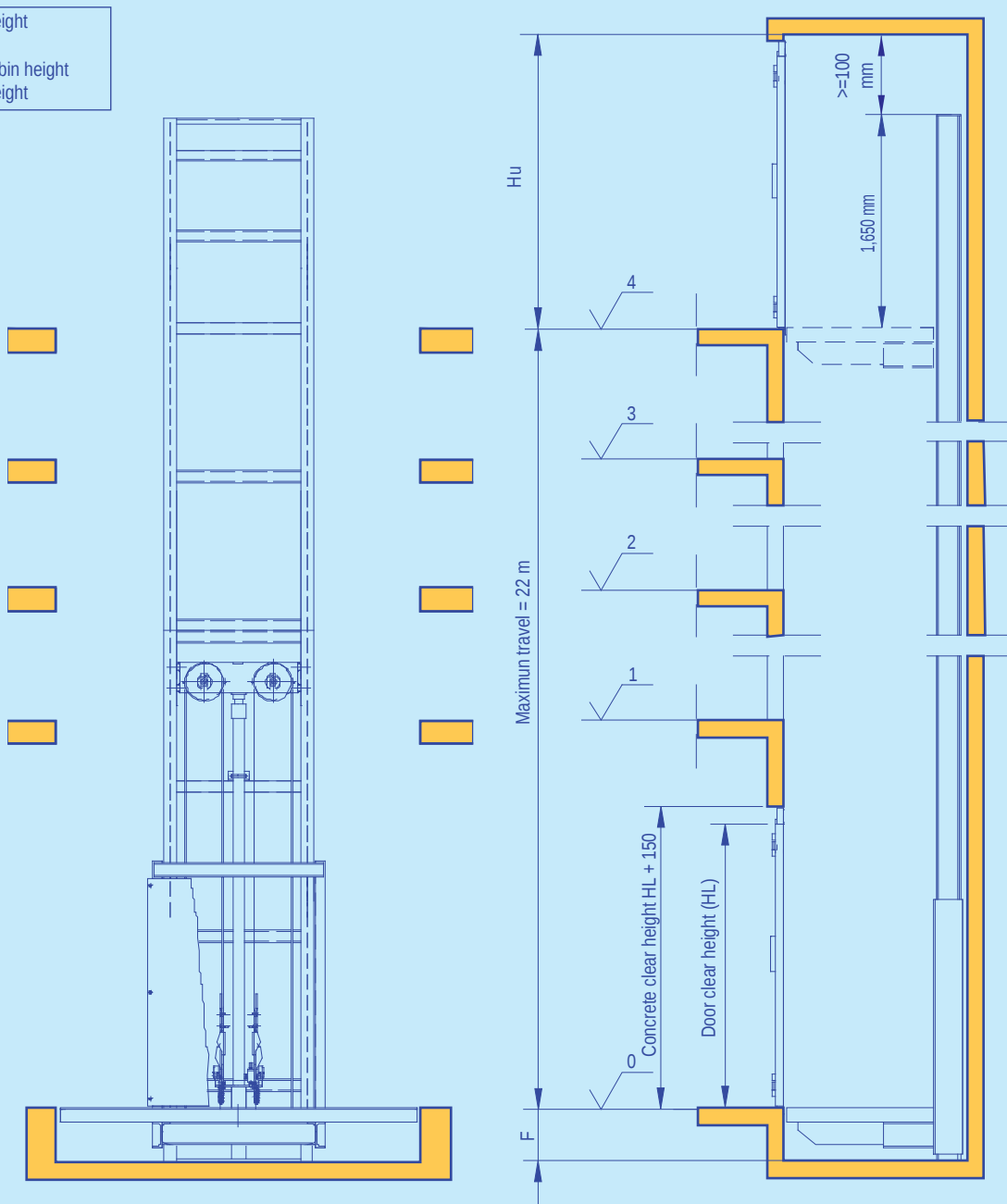
Dimension	Option		Value (mm)
Width (A)	Ropes hanging	Without walls/cabin	810 ÷ 2,100
		With walls/cabin	1,060 ÷ 2,100
	Chains hanging	Without walls/cabin	1,060 ÷ 2,100
		With walls/cabin	1,310 ÷ 2,100
Depth (B)			800 ÷ 1,500
Distance to the wall in lateral guiding columns (DC)	Without walls/cabin		210 ÷ 400
	With walls/cabin		250 ÷ 450
Distance to the wall in the side closings (DL)	Without protections		25 ÷ 35
	With handrails		≥ 100
	With walls/cabin		≥ 80
Loading area reduction (AP)	Without protections		0
	With handrails		30
	With walls/cabin	Without bumpers	0
		With bumpers	40

1.6. EH-1500 model.

Model	Available loads (Kg)
EH-1500	1,000, 1,500 and 2,000

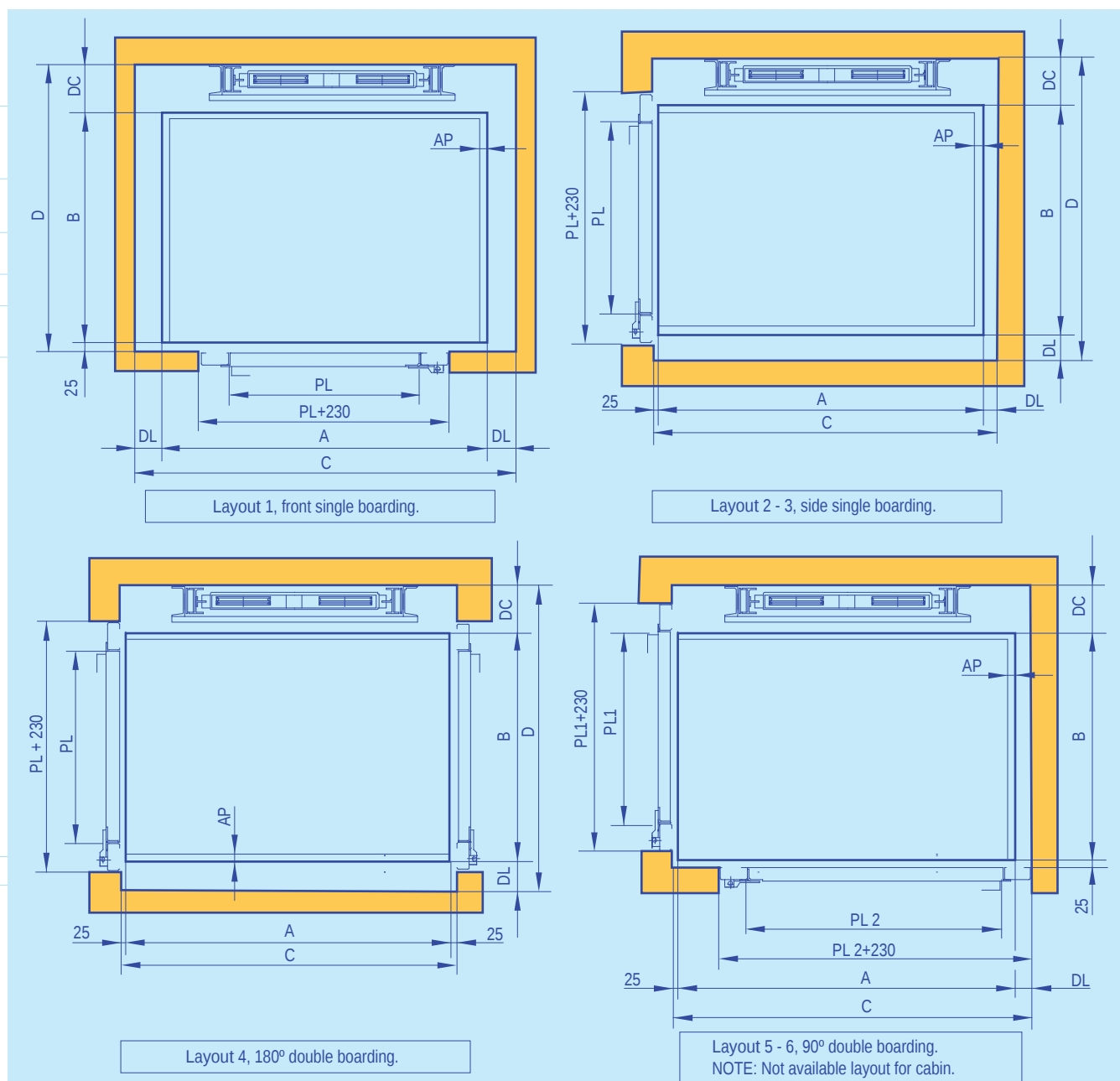
Minimum shaft dimension for EH-1500 model. Elevation view.

Hu= Headroom height
F= Pit
H= Protections/cabin height
HL= Door clear height



Dimension	Option	Value (mm)
Headroom height (Hu)	Without walls/cabin	Take the maximum within: • 2,000 • HL + 250
	With walls	H + 250
	With cabin	H + 350
Pit depth (F)	Without anti-creep device	350 ÷ 1,500
	With anti-creep device	400 ÷ 1,500
Walls/cabin height (H)		2,000 ÷ 2,500
Clear door height (HL)	Without walls/cabin	2,000 ÷ 2,950
	With walls	2,000 ÷ 2,400 (HL ≤ H - 100)
	With cabin	2,000 ÷ 2,500 (HL ≤ H)

Minimum shaft dimension for EH-1500 model. Plan view.

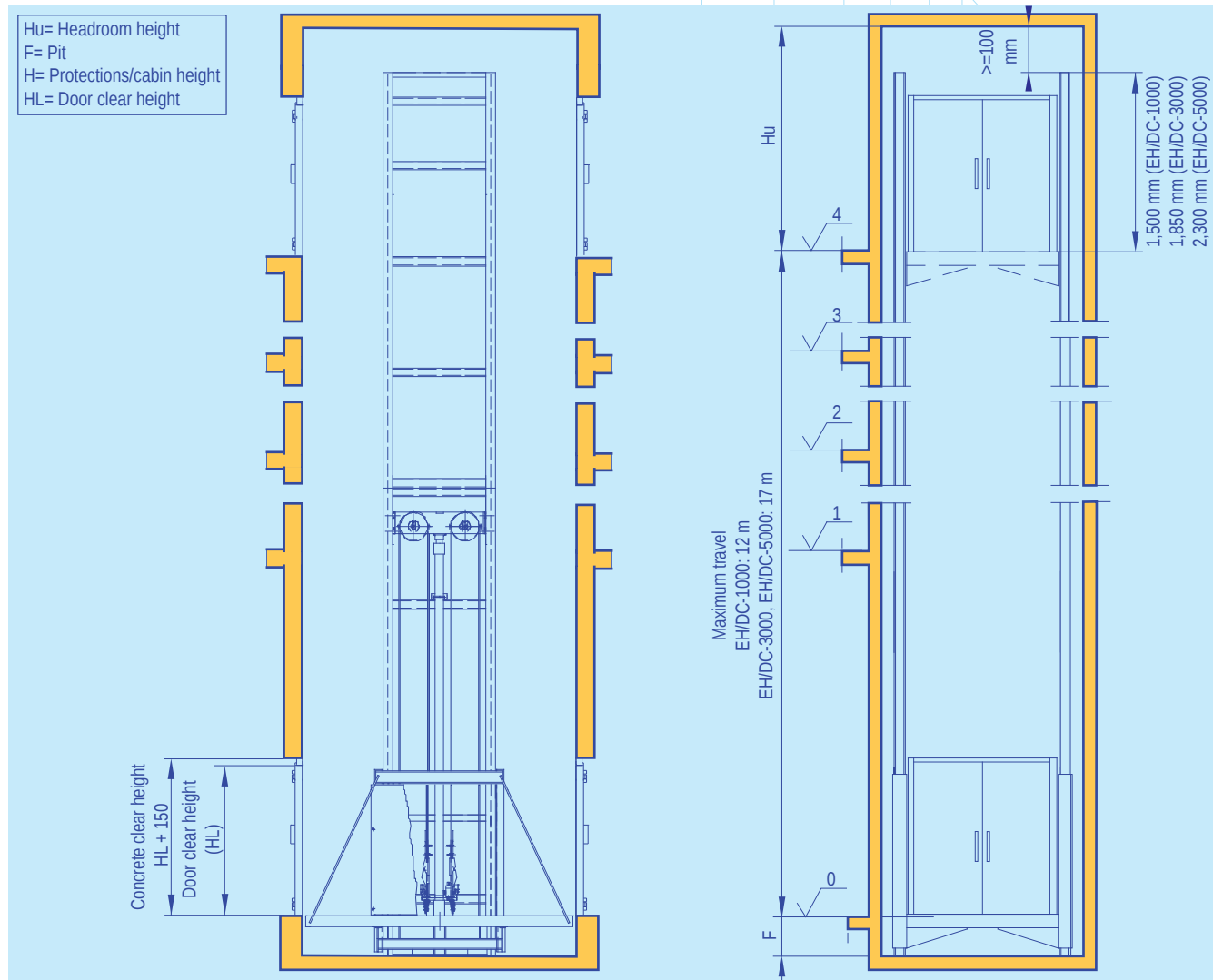


Dimension	Option	Value (mm)
Width (A)	Without walls/cabin	1,280 ÷ 2,800
	With walls/cabin	1,500 ÷ 2,800
Depth (B)		700 ÷ 2,000
Distance to the wall in lateral guiding columns (DC)	Without walls/cabin	300 ÷ 500
	With walls/cabin	380 ÷ 580
Distance to the wall in the side closings (DL)	Without handrails	25 ÷ 35
	With handrails	≥ 100
	With walls/cabin	≥ 80
Loading area reduction (AP)	Without protections	0
	With handrails	30
	With walls/cabin	40

1.7. EH/DC-1000, EH/DC-3000, EH/DC-5000.

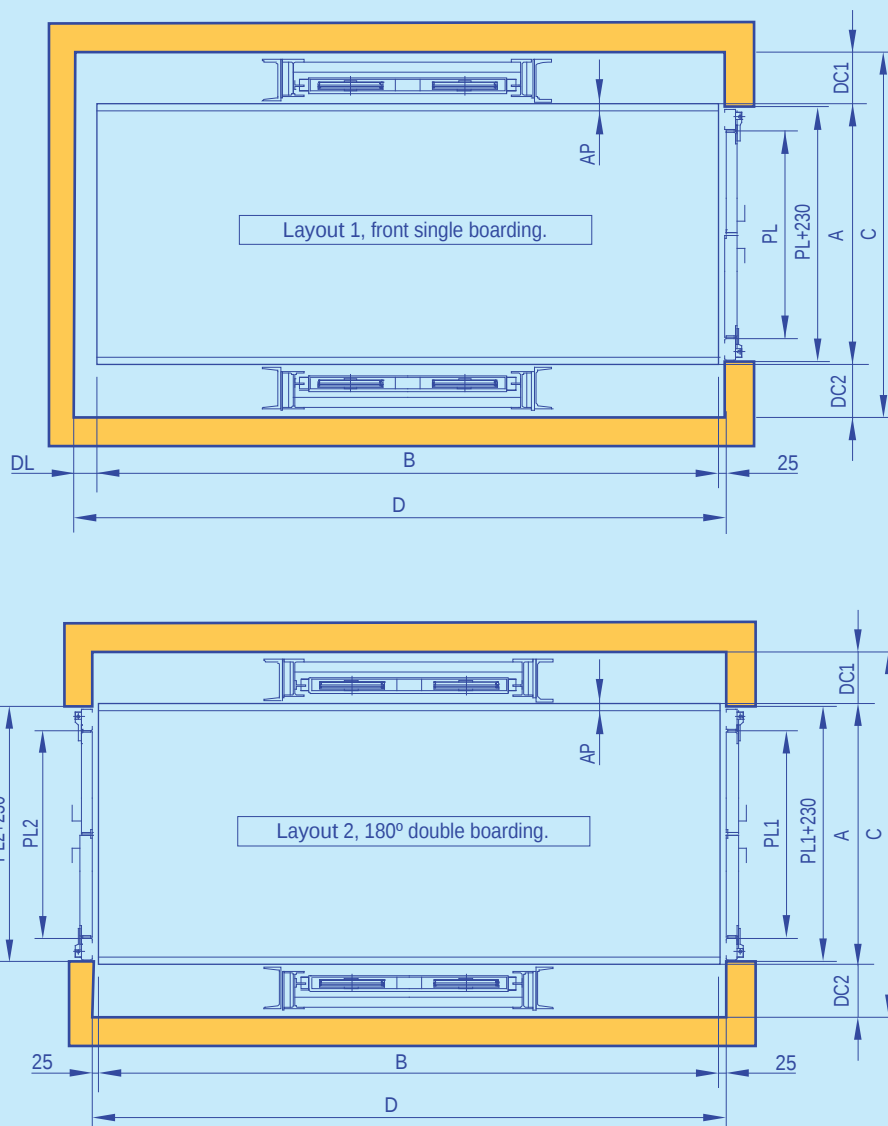
Model	Available loads (Kg)
EH/DC-1000	1,000 and 1,500
EH/DC-3000	2,000 and 3,000
EH/DC-5000	4,000 and 5,000

Minimum shaft dimension for EH/DC-1000, EH/DC-1000 and EH/DC-5000 model. Elevation view.



Dimension	Option	Value (mm)
Headroom height (Hu)	Without walls/cabin	EH/DC-1000 EH/DC-3000 EH/DC-5000
		Take the maximum within: ● 2,000 ● HL + 250
	With walls	H + 250
	With cabin	H + 350
Pit depth (F)	EH/DC-1000	350 ÷ 1,200
	EH/DC-3000	400 ÷ 1,700
	EH/DC-5000	Without anti-creep device 450 ÷ 1,700
		With anti-creep device 700 ÷ 1,700
Walls/cabin height (H)		2,000 ÷ 2,500
Clear door height (HL)	Without walls/cabin	2,000 ÷ 2,950
	With walls	2,000 ÷ 2,400 (HL ≤ H - 100)
	With cabin	2,000 ÷ 2,500 (HL ≤ H)

Minimum shaft dimension for EH/DC-1000, EH/DC-1000 and EH/DC-5000 model. Plan view.



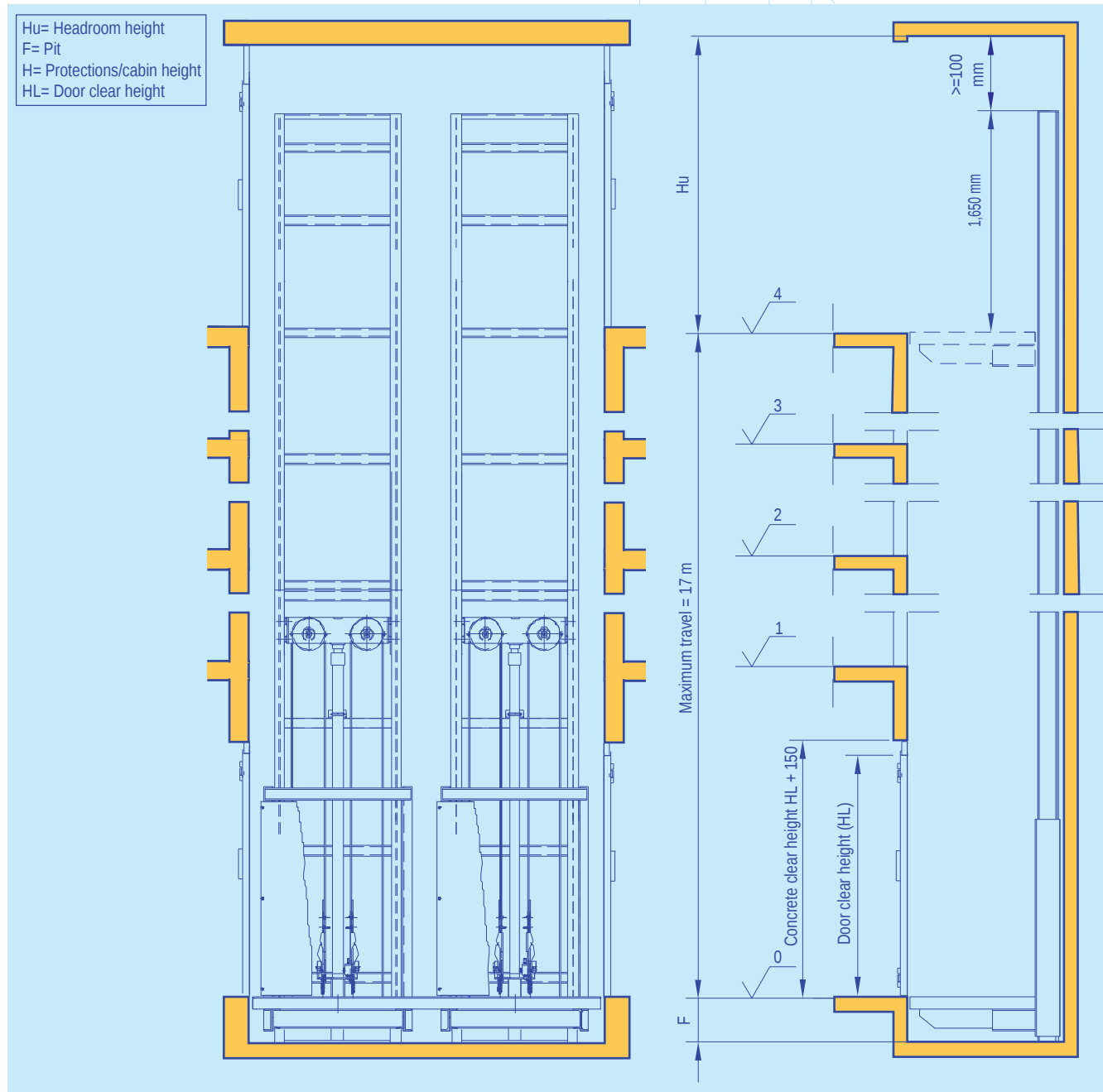
Dimension	Option		Value (mm)
Width (A)	EH/DC-1000		800 ÷ 3,500
	EH/DC-3000		1,200 ÷ 5,000
	EH/DC-5000		1,400 ÷ 5,000
Depth (B)	EH/DC-1000		1,350 ÷ 4,000
	EH/DC-3000, EH/DC-5000		1,600 ÷ 6,000
Distance to the wall in lateral guiding columns (DC)	Without walls/cabin	EH/DC-1000	210 ÷ 400
		EH/DC-3000, EH/DC-5000	300 ÷ 500
	With walls/cabin	EH/DC-1000	290 ÷ 480
		EH/DC-3000, EH/DC-5000	380 ÷ 580
Distance to the wall in the side closings (DL)	Without handrails		25 ÷ 35
	With handrails		≥ 100
	With walls/cabin		≥ 100
Loading area reduction (AP)	Without handrails		0
	With handrails		30
	With walls/cabin		40

NOTES: For EH/DC-1000 model, dimension A or dimension B must be 2,300 mm or lower.
For EH/DC-5000 model, maximum area is limited to 18 m².

1.8. EH/DCL-3000.

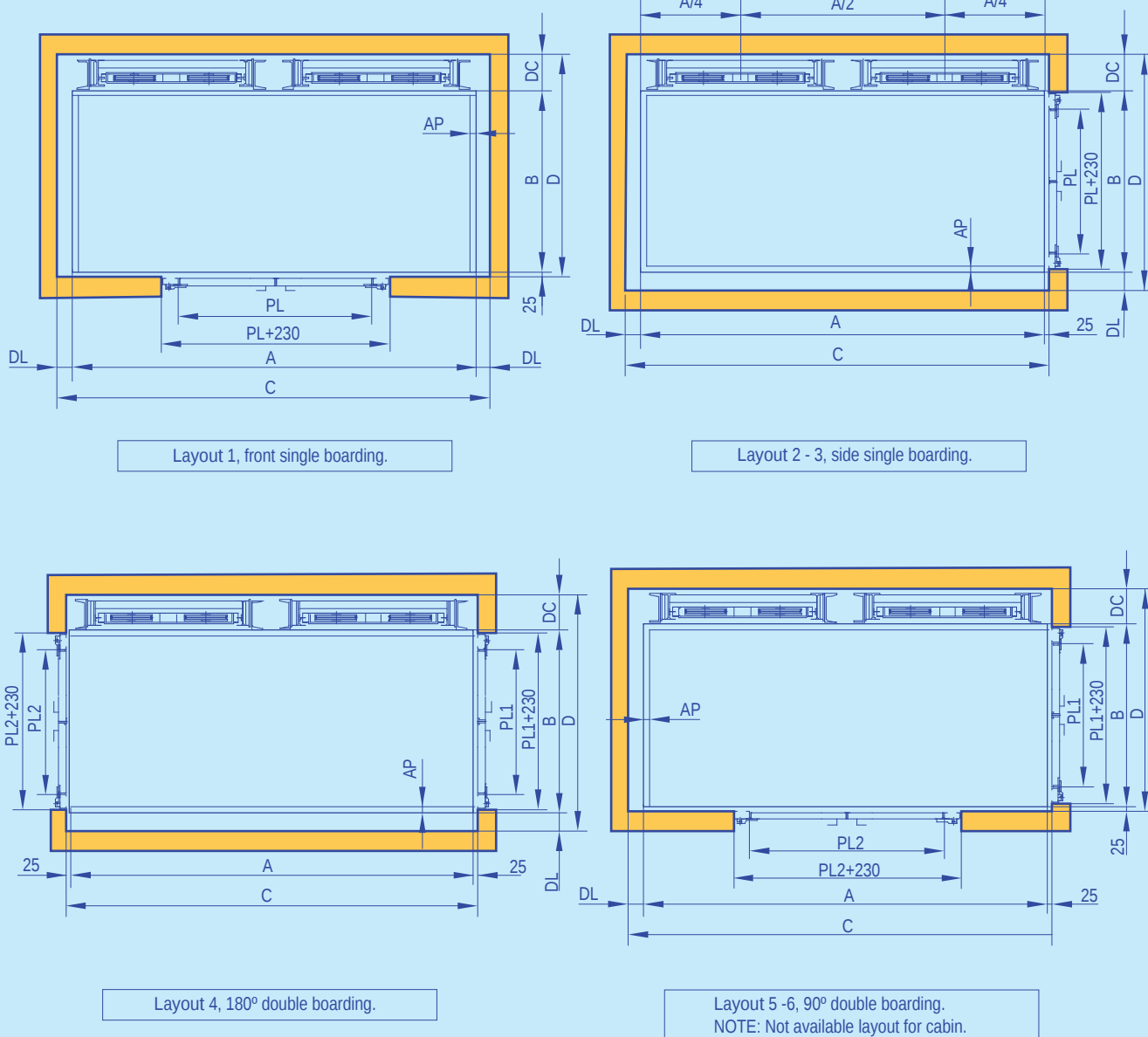
Model	Available loads (Kg)
EH/DCL-3000	2,000 and 3,000

Minimum shaft dimension for EH/DCL-3000 model. Elevation view.



Dimension	Option	Value (mm)
Headroom height (Hu)	Without walls/cabin	Take the maximum within: • 2,000 • HL + 250
	With walls	H + 250
	With cabin	H + 350
Pit depth (F)		450 ÷ 1,700
Walls/cabin height (H)		2,000 ÷ 2,500
Clear door height (HL)	Without walls/cabin	2,000 ÷ 2,950
	With walls	2,000 ÷ 2,400 (HL ≤ H - 100)
	With cabin	2,000 ÷ 2,500 (HL ≤ H)

Minimum shaft dimension for EH/DCL-3000 model. Plan view.

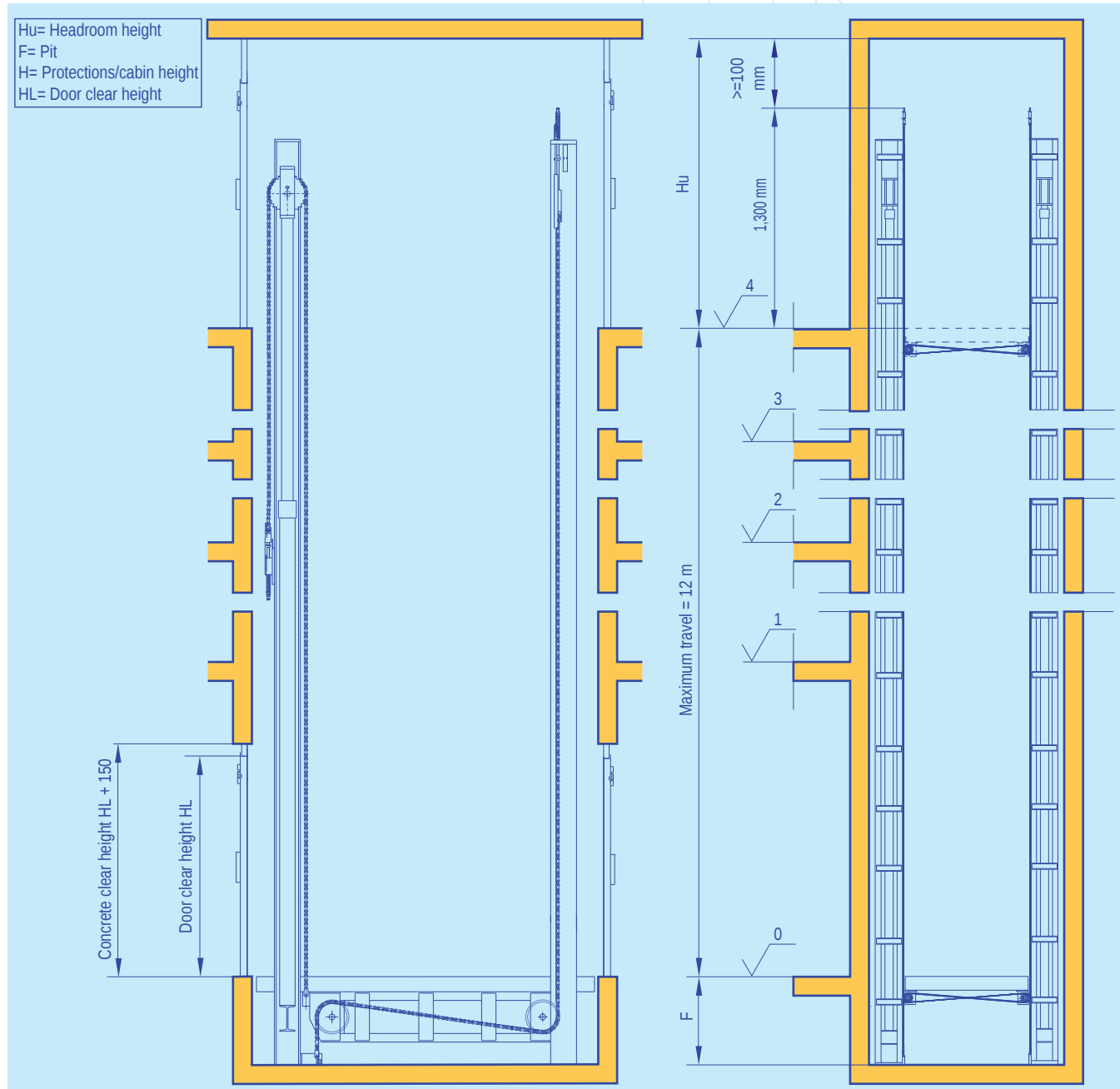


Dimension	Option	Value (mm)
Width (A)	Without walls/cabin	2,800 ÷ 5,500
	With walls/cabin	3,000 ÷ 5,500
Depth (B)		800 ÷ 2,500
Distance to the wall in lateral guiding columns (DC)	Without walls/cabin	300 ÷ 500
	With walls/cabin	380 ÷ 580
Distance to the wall in the side closings (DL)	Without protections	25 ÷ 35
	With handrails	≥ 100
	With walls/cabin	≥ 100
Loading area reduction (AP)	Without handrails	0
	With handrails	30
	With walls/cabin	40

1.9. EH/4C model.

Model	Available loads (Kg)
EH/4C	4,000, 5,000, 6,000, 8,000 and 10,000

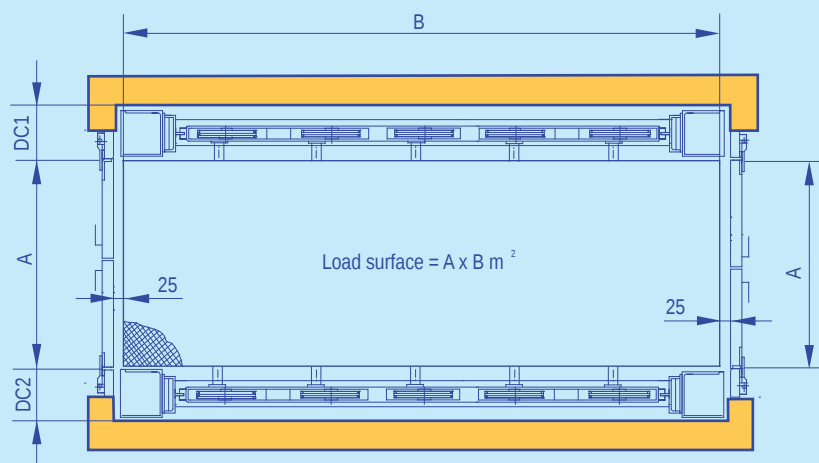
Minimum shaft dimension for EH/4C model. Elevation view.



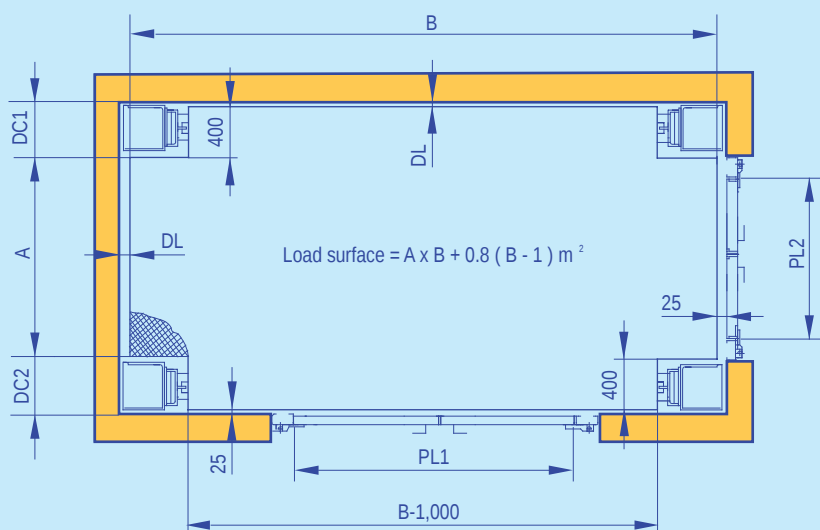
Dimension	Option	Value (mm)
Headroom height (Hu)	Without walls	Take the maximum within: • 2,000 • HL + 250
	With walls	H + 250
Pit depth (F)		700 ÷ 1,700
Walls height (H)		2,000 ÷ 2,500
Clear door height (HL)	Without walls	2,000 ÷ 2,950
	With walls	2,000 ÷ 2,400 (HL ≤ H - 100)

NOTE: For EH/4C model the with walls option is only available with 90° boarding layouts.

Minimum shaft dimension for EH/4C model. Plan view.



Surface type 1 with 180° boardings (2 available boardings)
NOTE: With wall option is not available for this layout.



Surface type 2 with 90° boardings (4 available boardings)

Dimension	Option	Value (mm)
Width (A)		1,800 ÷ 4,000
Depth (B):	4,000 Kg	2,300 ÷ 9,000
	5,000 Kg	2,600 ÷ 9,000
	6,000 Kg	2,800 ÷ 9,000
	8,000 Kg	3,300 ÷ 9,000
	10,000 kg	3,600 ÷ 9,000
Distance to the wall in lateral guiding columns (DC)		425 ÷ 570
Distance to the wall in the side closings (DL)	Without protections	25 ÷ 35
	With handrails	≥ 100
	With walls	≥ 100

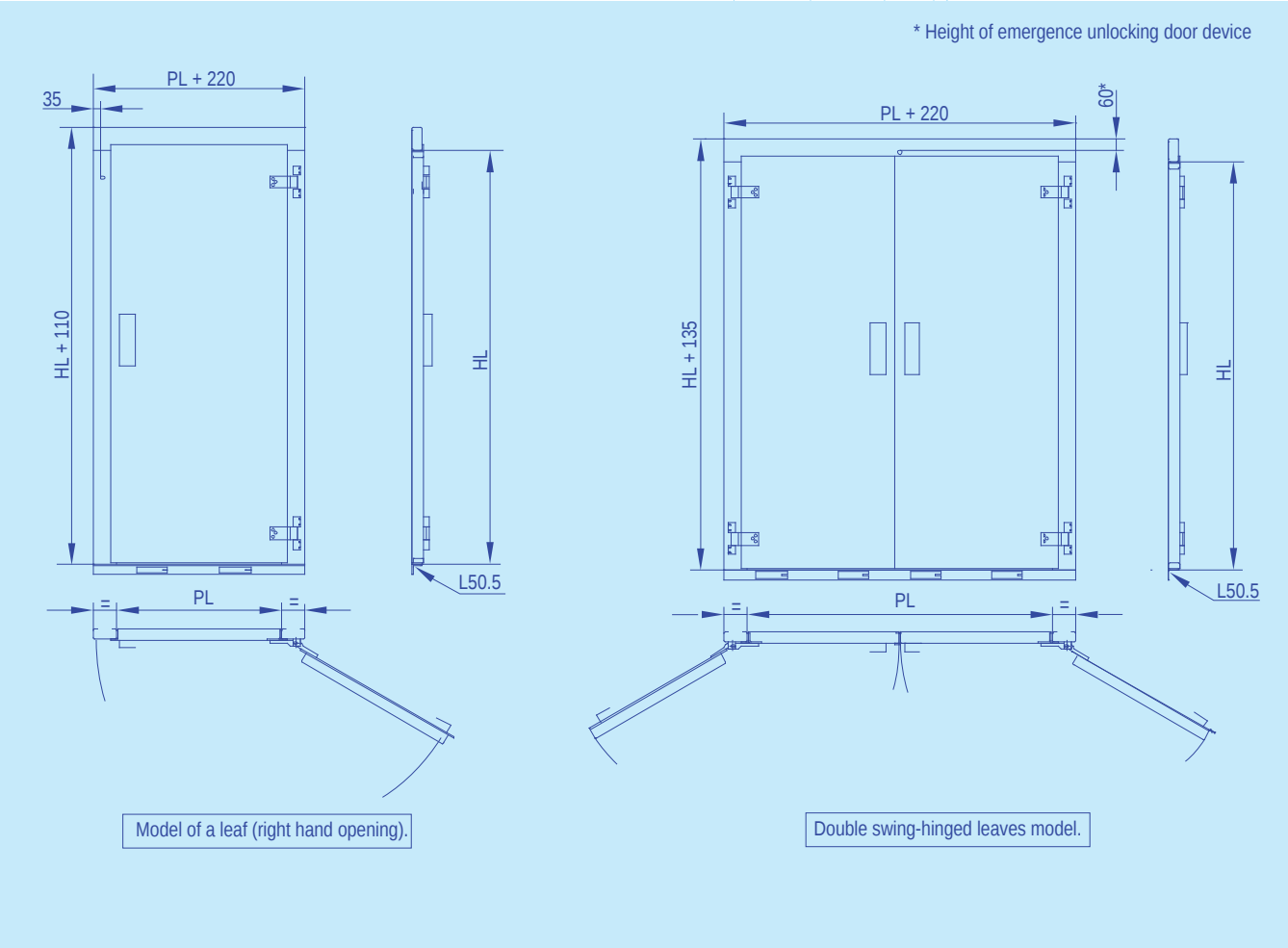
NOTES: For EH/4C model the load area is limited to 25 m².

For EH/4C model the with walls option is only available with 90° boarding layouts.

1.10. Single and double manual hinged swing doors.

- Manufactured by Hidral.
- E120 flameproof doors according to EN 81-58.
- Without vision panel.
- Electric lock.

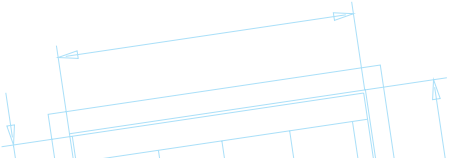
* Height of emergence unlocking door device



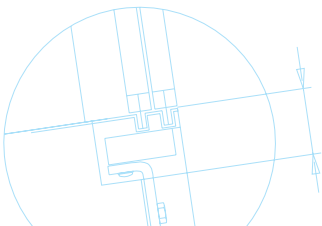
Dimension	Option	Value (mm)
Clear height (HL)		2,000 ÷ 2,950
Clear opening (PL)	Single leave	600 ÷ 1,200
	Double leaves	1,000 ÷ 3,000

Notes

This image shows a full page of graph paper. The background is a solid light blue color. Overlaid on this background is a uniform grid of thin, dark gray horizontal and vertical lines. These lines intersect to form a series of small, identical squares across the entire page, providing a guide for drawing or writing.



Hidral



HIDRAL, S. A. GOODS ONLY LIFT EH TECHNICAL SPECIFICATIONS APPENDIX

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