

Project Planning Freight Elevators.

Hydraulic and Traction Drive Elevators
with Variable Car Dimensions.
Rated Load 500–5000 kg.

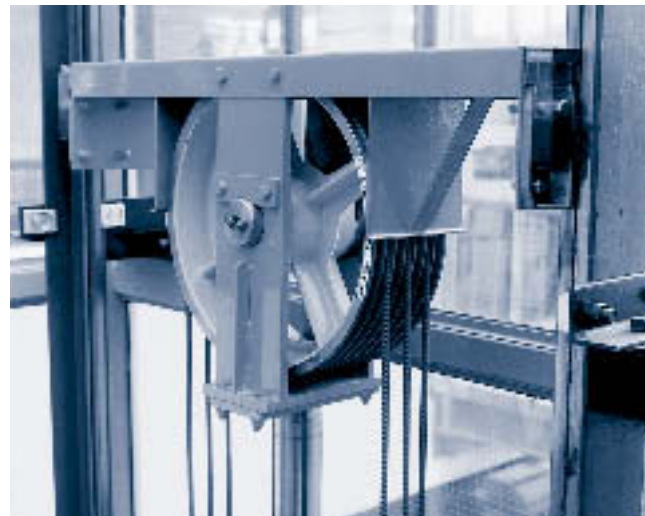
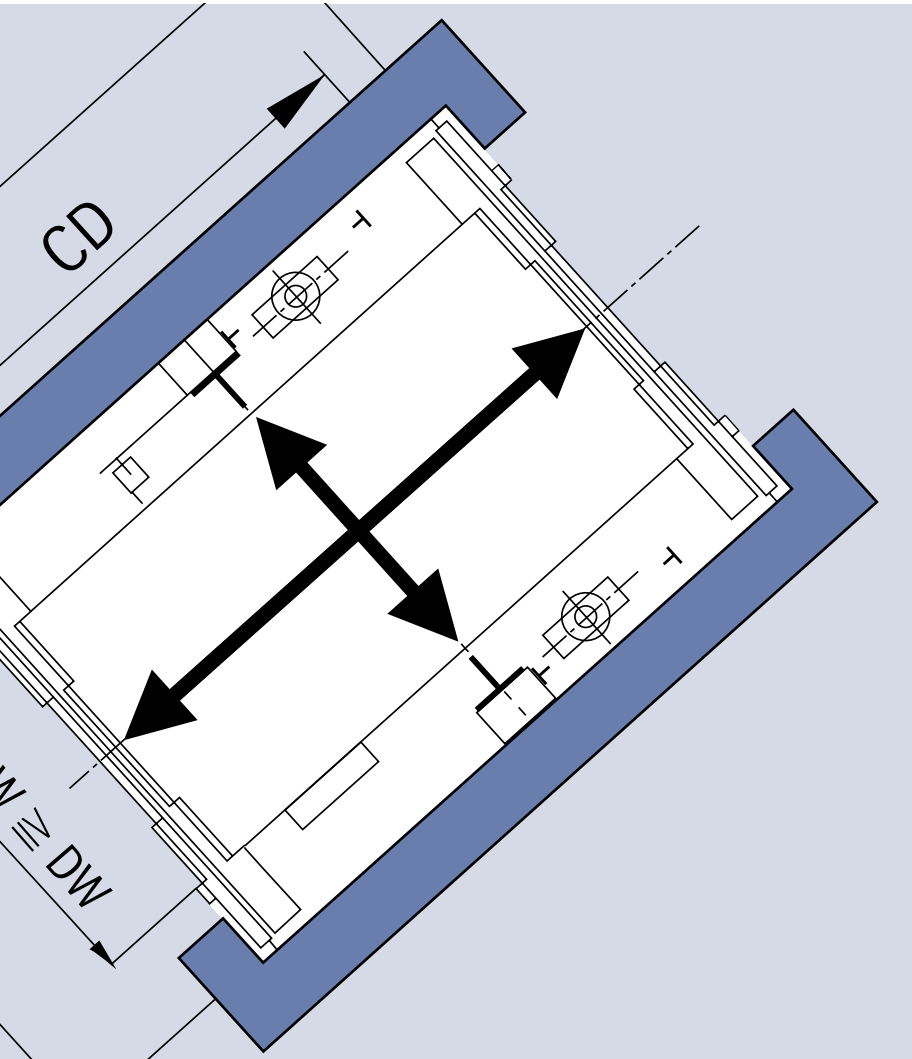


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The choice of the right freight elevator basically depends on the particular transporting task.

This project planning aid will give you an overview of important planning criteria. However, you should still speak with our specialists, as the experienced ThyssenKrupp consultants also know the detail problems.

Particularly with freight elevators, it's 'tailored' solutions to problems that count. The sooner you request a consultation, the better and more cost-effective it will be for you and your project.

The traction or hydraulic driven freight elevators have been designed with a large range of car dimensions and rated loads from 500 to 5000 kg for efficient, economical freight transport. Our high-performance hydraulic and frequency-controlled traction drives allow freight to be moved at speeds of up to 0.63 m/s or 1.0 m/s, respectively.

Travel heights of up to 30 m and as many as 10 landings are technically possible.

Elevator cars are available with car widths variable in 100 mm steps up to 3000 mm, car depths up to 5000 mm and car heights of 2000–2500 mm.

The elevator installations are usually equipped with our efficient and proven comfort doors S8/K8. The following three door designs can be used in correlation with the drive arrangement.

The selection, which may be a requirement, must be oriented to the necessary door dimensions and the possible shaft width:

– side opening two-panel telescopic sliding doors (M2T) which

open either to the right or the left with door widths of 700–1400 mm and door heights of 2000–2500 mm

– fast central opening four-panel telescopic sliding doors (M4TZ) with door widths of 800–2500 mm and door heights of 2000–2500 mm

– especially robust central opening six-panel telescopic sliding doors (T6) with door widths of 2100–3000 mm and door heights of 2000–3000 mm

The 100 mm grid also applies to the door dimensions. And to complete the range, you can select between the installation of the landing doors on the landing in a wall recess (recess installation) or entirely in the shaft (shaft installation).

Please find information on the overall design of elevator installations in our separate planning information.

Should your requirements or demands exceed the following range, please contact one of our experienced consultants.

Specification of the car dimensions:

Car dimensions are chosen according to the grid system on pages 4 to 9 and 22 to 23. Every rated load level is assigned a grid.

All the car dimensions are possible that are points of intersection within the grid.

You will find all the other dimensions for the shaft, doors, etc. in the corresponding project planning data on pages 10 to 19 and 23 to 25.

Explanation of symbols:

- Freight elevators with or without open through
- ▼ Freight elevators without open through (with rear wall)

Car Dimensions for Freight Elevators with Hydraulic Drive

1:1/1:2 Suspension

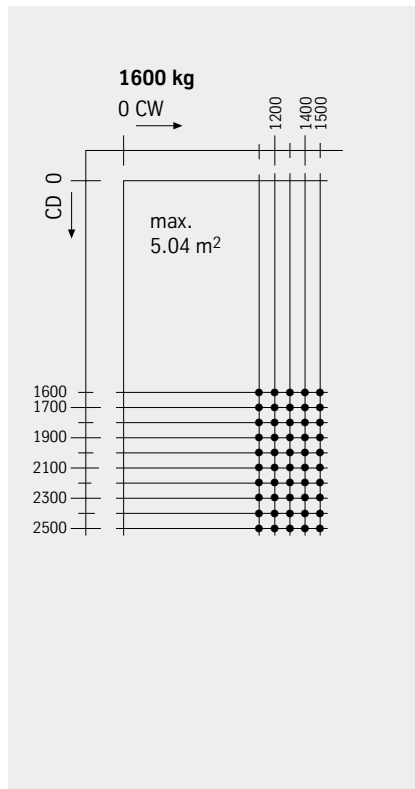
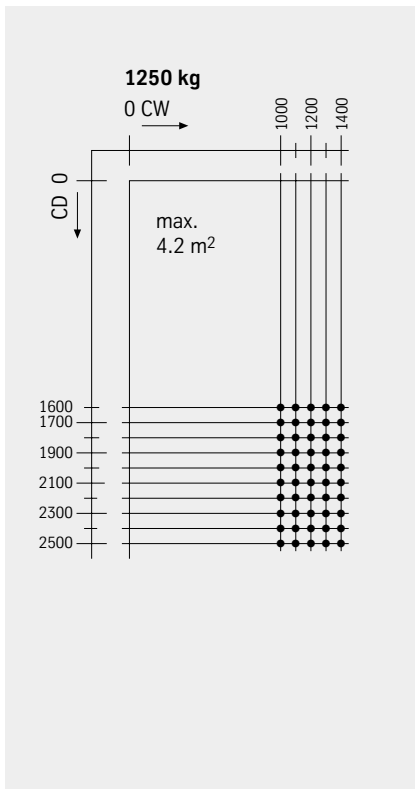
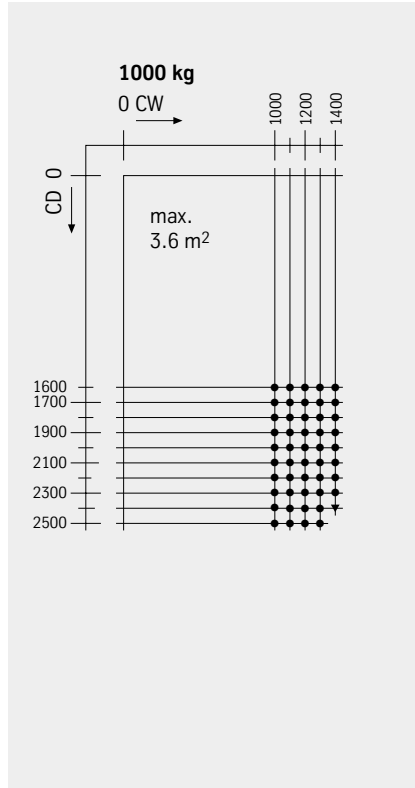
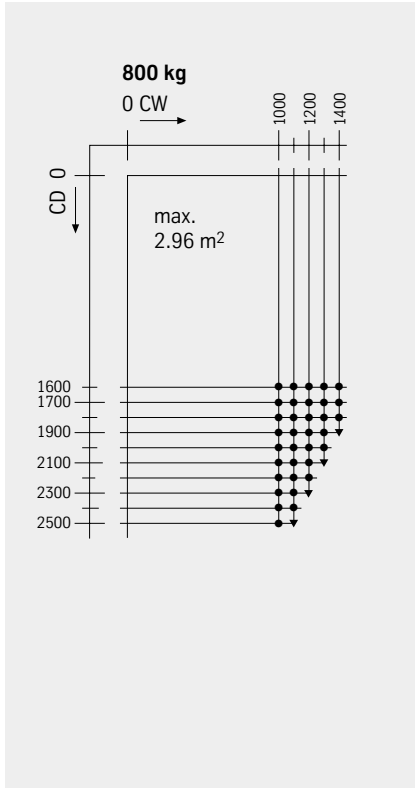
1 Jack next to the Elevator Car

BH 23/53

800–1600 kg

BH 33

800–1600 kg



Please note:

For 1:2 suspension with 1 jack next to the elevator car, the elevator car is only possible with a rear wall at CD_{min} = 1600 (no open through).

Information on using the grid system:

Do **not** exceed the specified maximum available car area **plus** the treadway area(s) [EN 81-2, 8.2.1].

The size of the treadway area is oriented to the chosen door design and door width.

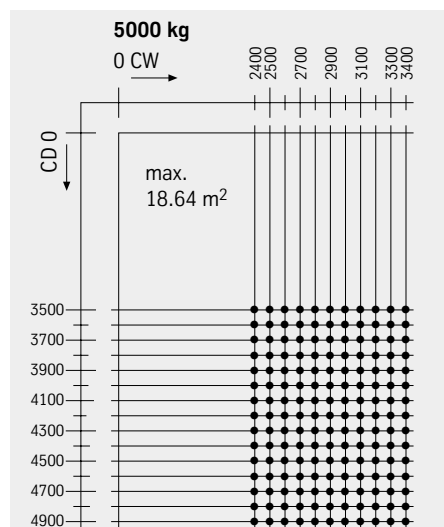
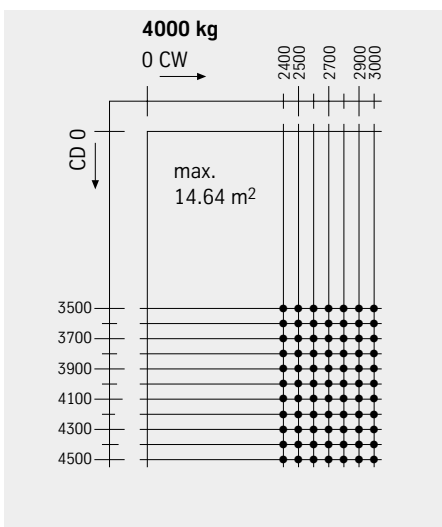
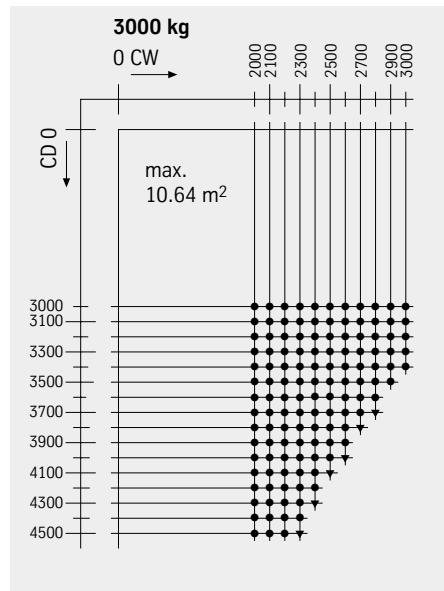
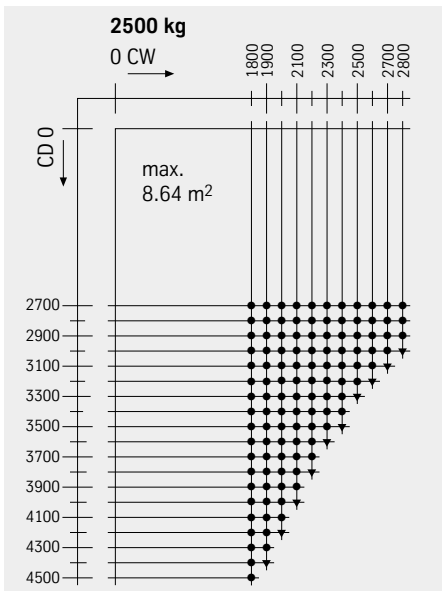
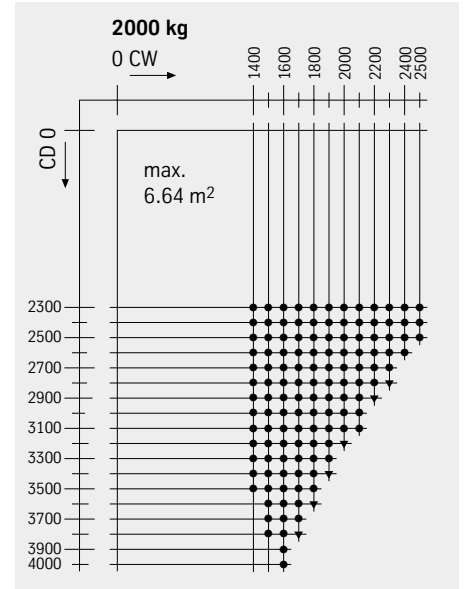
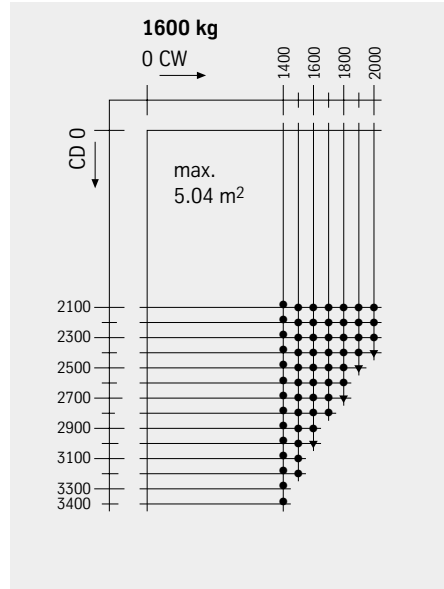
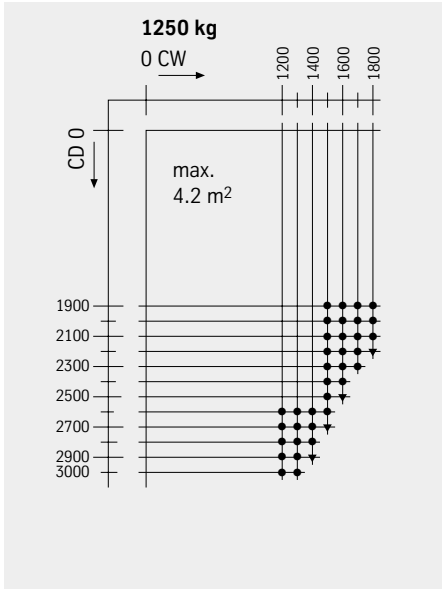
Car Dimensions for Freight Elevators with Hydraulic Drive

BH 33

1250–5000 kg

1:2 Suspension

2 Jacks next to the Elevator Car

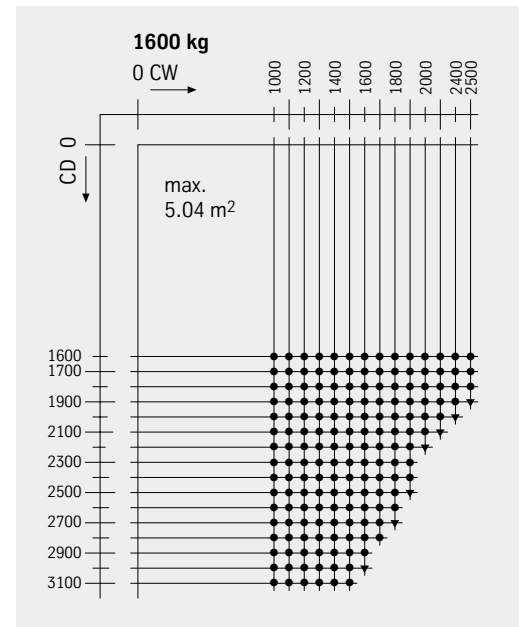
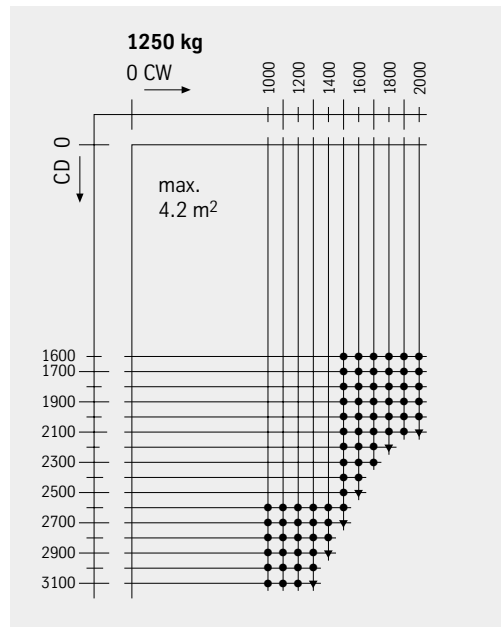
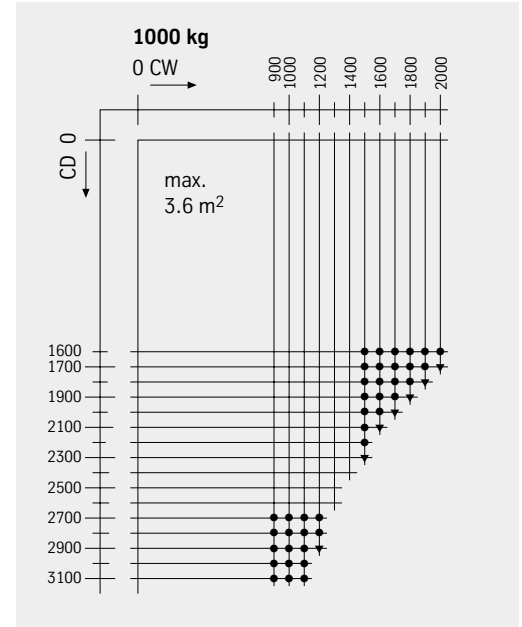
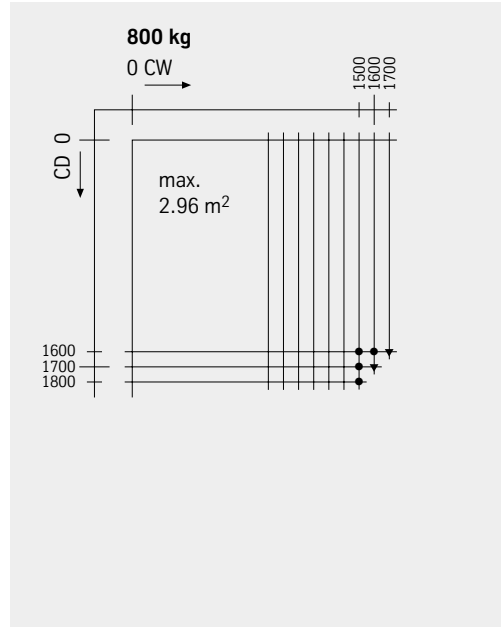


Information on using the grid system:
Do **not** exceed the specified maximum available car area **plus** the treadway area(s) [EN 81-2, 8.2.1].
The size of the treadway area is oriented to the chosen door design and door width.

Car Dimensions for Freight Elevators with Hydraulic Drive

1:1 Suspension

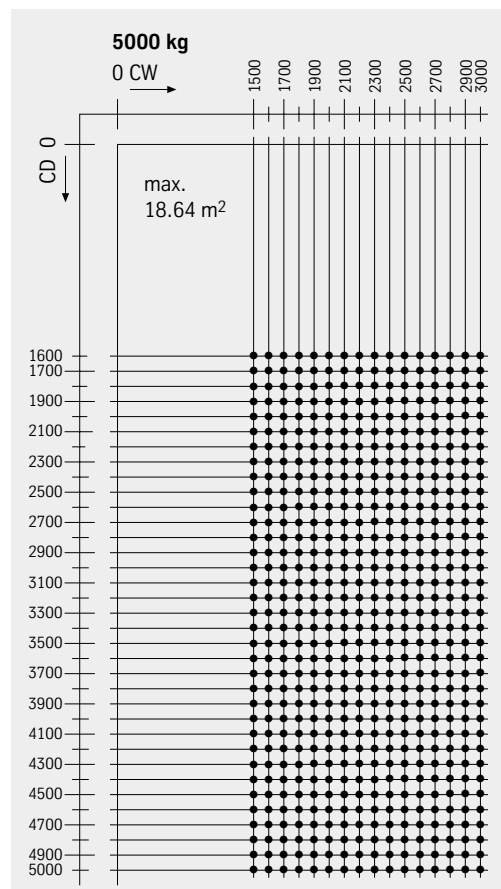
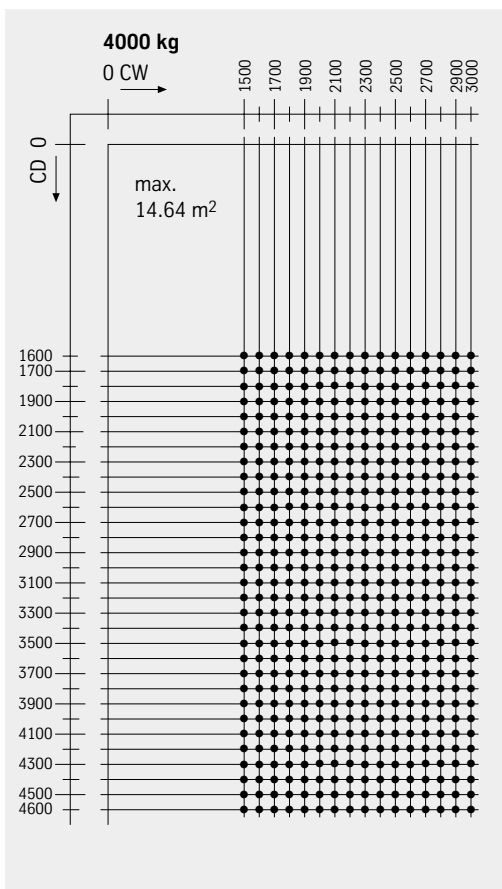
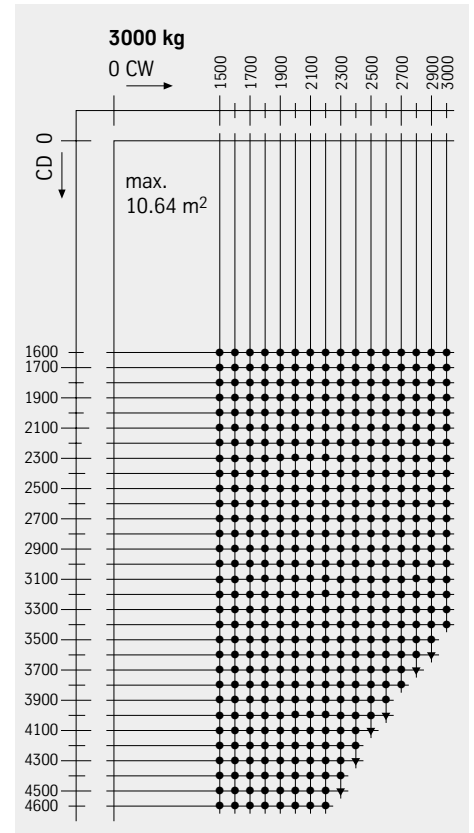
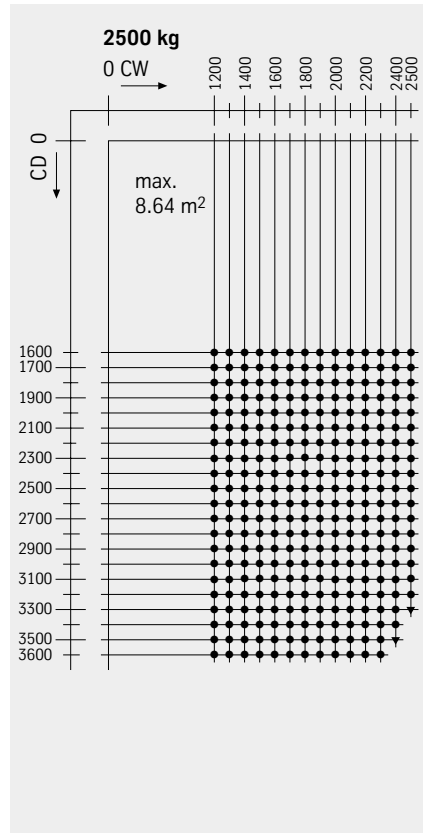
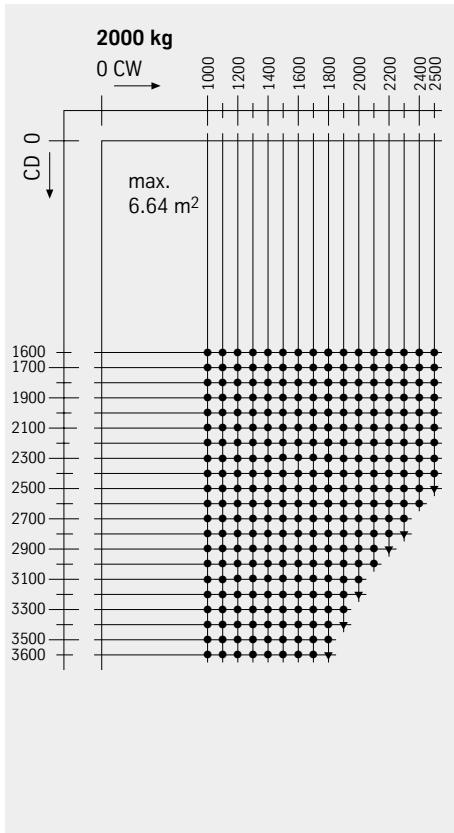
2 Jacks next to the Elevator Car



Information on using the grid system:

Do **not** exceed the specified maximum available car area **plus** the treadway area(s) [EN 81-2, 8.2.1].

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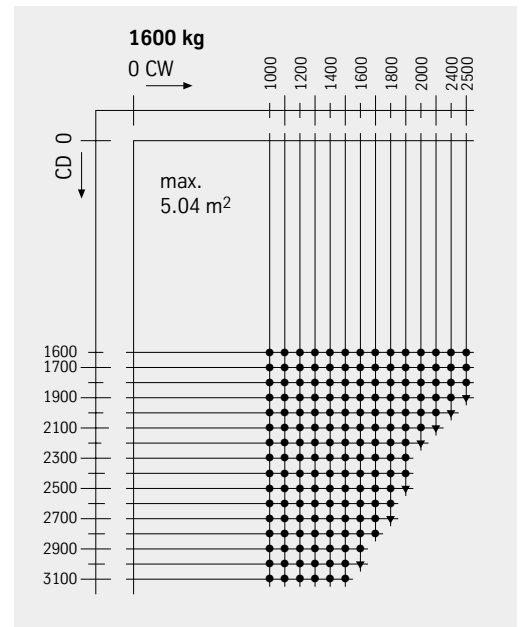
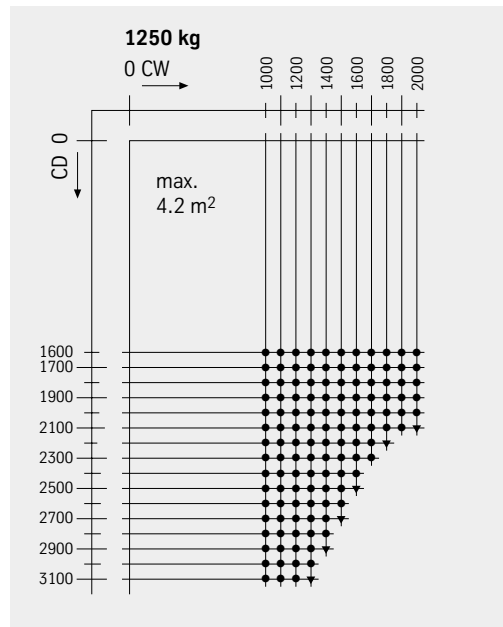
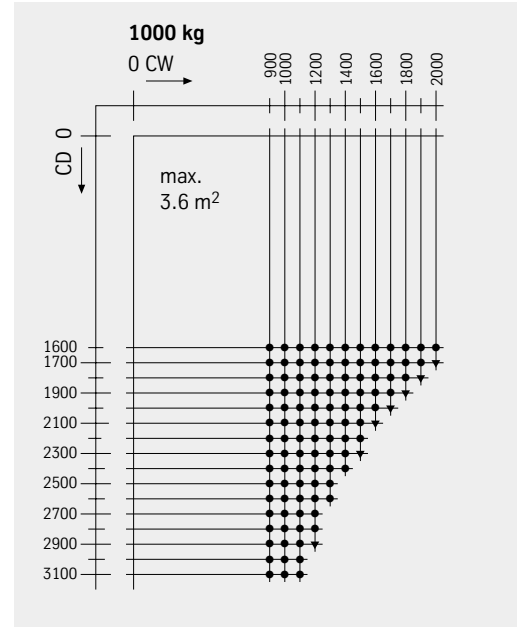
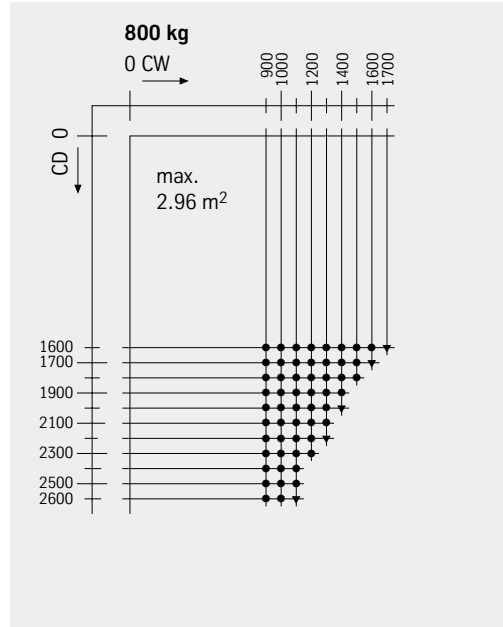
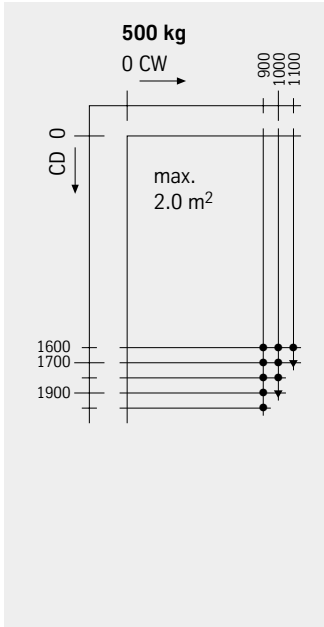
Car Dimensions for Freight Elevators with Hydraulic Drive

1:1 Suspension

1 Jack under the Elevator Car

BH 23/53

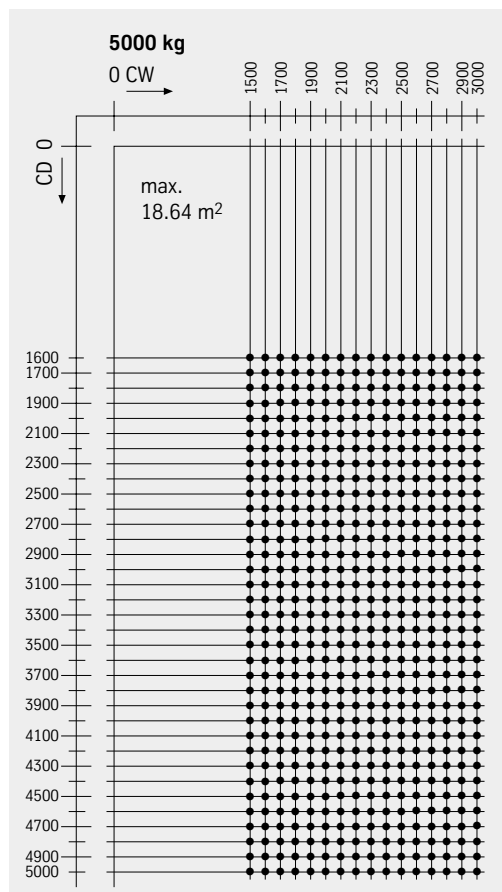
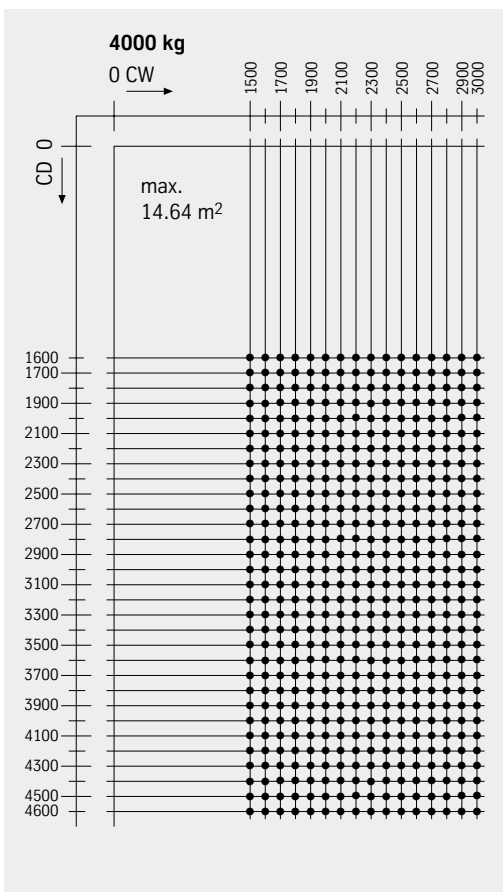
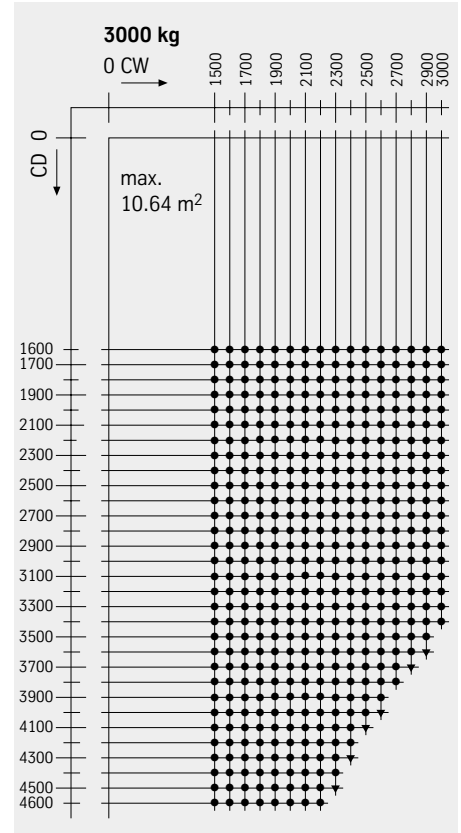
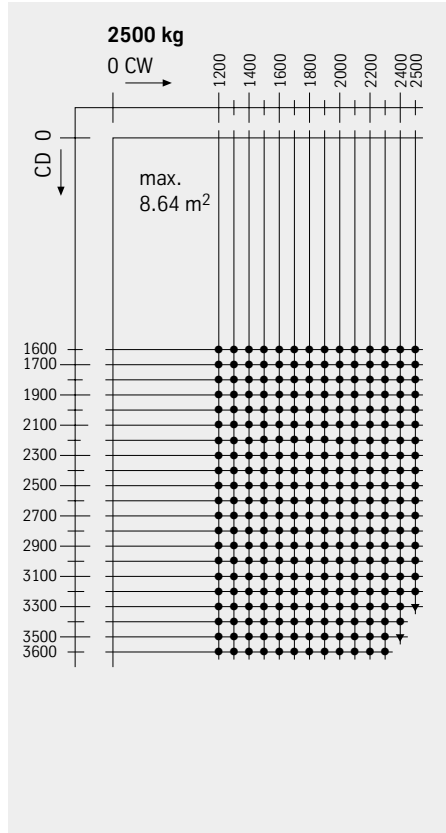
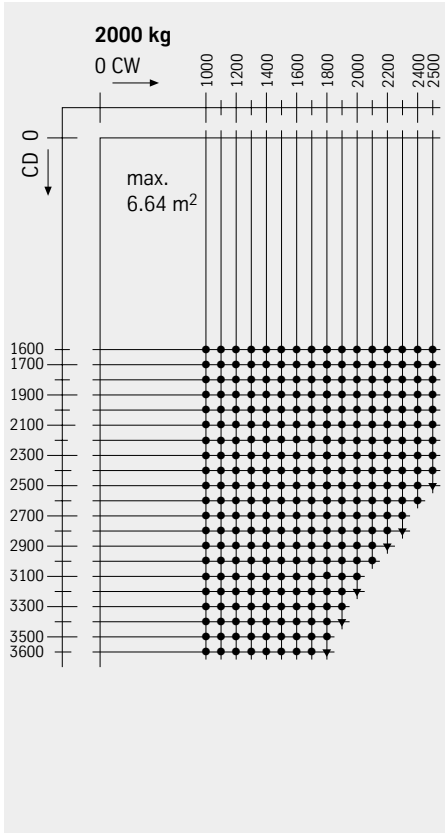
500–5000 kg



Information on using the grid system:

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Freight Elevators with Hydraulic Drive

1 Jack next to the Elevator Car

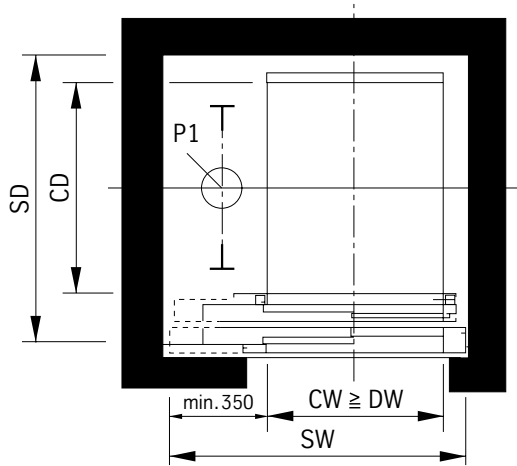
1:1 Suspension

Side Opening Telescopic Sliding Doors M2T

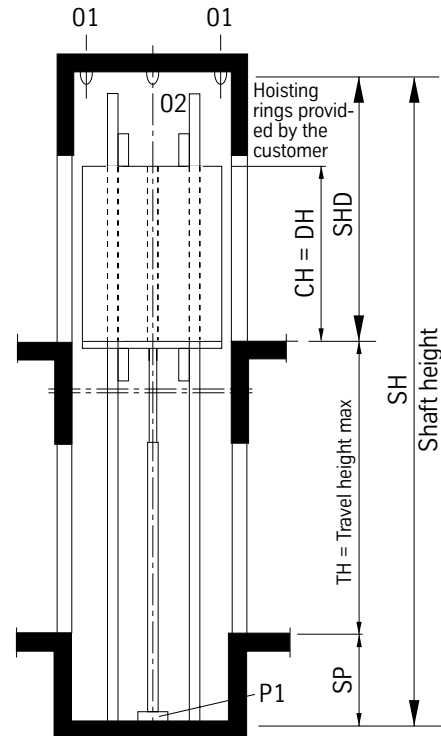
BH 23/53

800-1600 kg

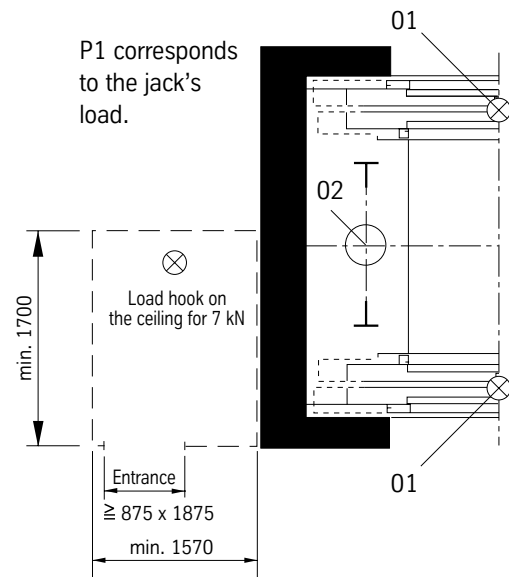
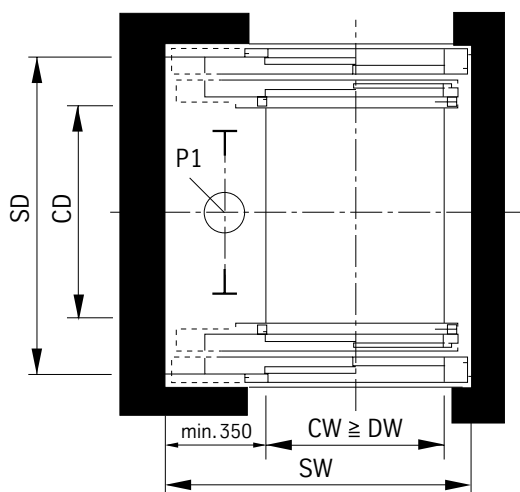
Shaft ground plan without open through



Shaft vertical section



Shaft ground plan with open through



Machine room ground plan

Type BH 23	Rated load	kg	800	1000	1250	1600
Travel speed	v max.	m/s	up to 0.63			
Travel height	TH	m	max. 3.45			
Machine room height	MRH	mm	min. 2000			
Car width \geq Door width	CW \geq DW	mm	see car dimensions			
Car depth	CD	mm	see car dimensions			
Car height \geq Door height	CH \geq DH	mm	2000–2500			
Shaft depth with open through	SD on the shaft interior (without door recess)	mm	CD + 530			
without open through		mm	CD + 350			
Door width	DW	mm	1000, 1100, 1200, 1300, 1400			...1500
Shaft width (min.) ¹⁾	SW	mm	1785, 1935, 2085, 2235, 2385 ²⁾ or CW + 550 ³⁾			
Shaft head	SHD	mm	min. CH + 1450 ⁴⁾			
Shaft pit	SP	mm	min. 1200			
Load (stat. and dyn.)	P1	kN	62	72	80	96
	O1	kN	5			
	O2	kN	10			

1 Jack next to the Elevator Car 1:1

1) The larger value is valid in each case.

2) Values when DW = CW

3) Values when DW < CW

4) The required shaft height SH must be calculated according to 2 formulas:

a) SH = 2 x TH + 1800

b) SH = SP + TH + SHD

The larger value is valid.

Type BH 53	Rated load	kg	800	1000	1250	1600
Travel speed	v max.	m/s	up to 0.63			
Travel height	TH	m	max. 6.6 ⁷⁾			
Machine room height	MRH	mm	min. 2000			
Car width \geq Door width	CW \geq DW	mm	see car dimensions			
Car depth	CD	mm	see car dimensions			
Car height \geq Door height	CH \geq DH	mm	2000–2500			
Shaft depth with open through	SD on the shaft interior (without door recess)	mm	CD + 530			
without open through		mm	CD + 350			
Door width	DW	mm	1000, 1100, 1200, 1300, 1400			...1500
Shaft width (min.) ¹⁾	SW	mm	1785, 1935, 2085, 2235, 2385 ²⁾ or CW + 550 ³⁾			
Shaft head Two-stage jack	SHD	mm	min. CH + 1450			⁵⁾
Shaft head Three-stage jack	SHD	mm	min. CH + 1450			⁶⁾
Shaft pit	SP	mm	min. 1200			
Load (stat. and dyn.)	P1	kN	62	72	80	96
	O1	kN	5			
	O2	kN	10			

1 Telescopic Jack next to the Elevator Car 1:1

5) The required shaft height SH must be calculated according to 2 formulas:

a) SH = (1,53 x TH) + 1605

b) SH = SP + TH + SHD

The larger value is valid.

6) The required shaft height SH must be calculated according to 2 formulas:

a) SH = (1,36 x TH) + 1890

b) SH = SP + TH + SHD

The larger value is valid.

7) Larger travel heights are also possible on request.

Freight Elevators with Hydraulic Drive

2 Jacks next to the Elevator Car

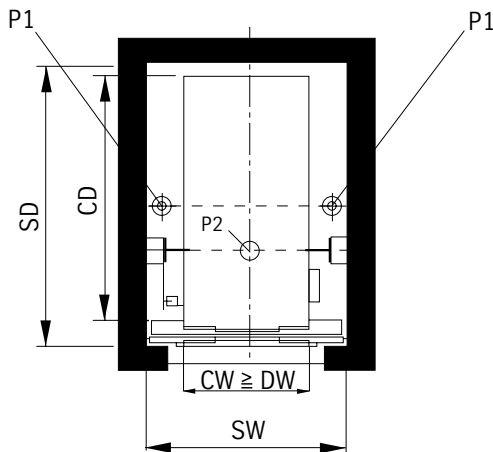
1:1 Suspension

Central Opening Telescopic Sliding Doors M4TZ or T6

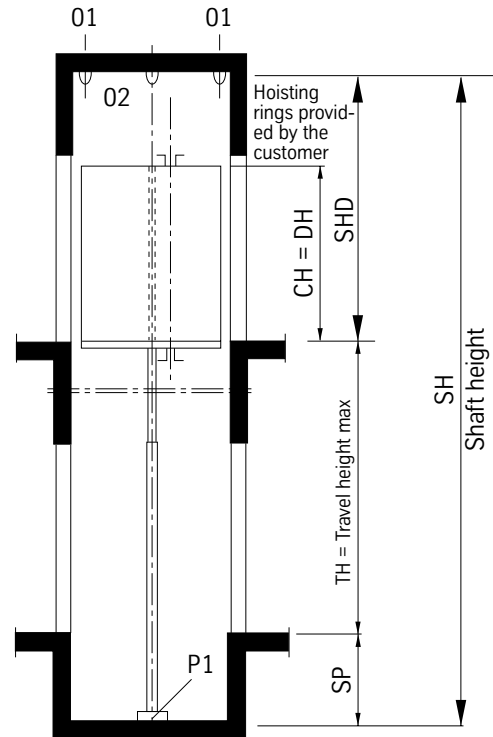
BH 23/53

800–5000 kg

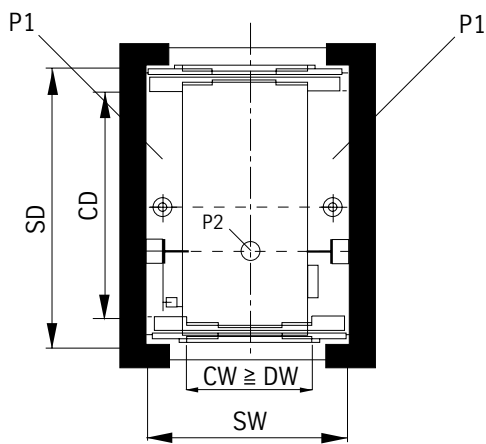
Shaft ground plan without open through



Shaft vertical section

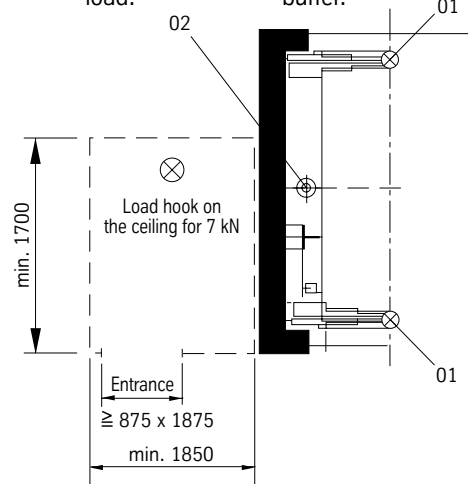


Shaft ground plan with open through



P1 corresponds to the jack's load.

P2 corresponds to the loader per buffer.



Machine room ground plan

Type BH 23	Rated load	kg	800	1000	1250	1600	2000	2500	3000	4000	5000
Travel speed	v max.	m/s	up to 0.63								
Travel height	TH	m	max. 4.5								
Machine room height	MRH	mm	min. 2000								
Car width \geq Door width	CW \geq DW	mm	see car dimensions								
Car depth	CD	mm	see car dimensions								
Car height \geq Door height	CH \geq DH	mm	2000–2500								
Shaft depth with open through four-panel central opening six-panel sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490								
without open through four-panel central opening six-panel sliding door		mm	CD + 350 CD + 330								
Shaft width (when DW < CW)	SW	mm	CW + 540			CW + 580			CW + 650		
four-panel, central opening sliding door (when DW = CW)			1.5 DW + 170								
six-panel, central opening sliding door (when DW = CW)			4/3 DW + 170								
Shaft head	SHD	mm	min. CH + 1450								
Shaft pit	SP	mm	min. 1400								
Load (stat. and dyn.)	O1	kN	4.5			7.5			9.5		
	O2	kN	5.0			6.0			8.0		
	P1	kN	75.0	86.0	101.0	127.0	142.0	162.0	201.0	241.0	276.0
	P2	kN	37.5	43.0	50.5	63.5	71.0	81.0	100.5	120.5	138.0

2 Jacks next to the Elevator Car 1:1

1) The required shaft height SH must be calculated according to 2 formulas:

- a) $SH = 2 \times TH + 1800$
 b) $SH = SP + TH + SHD$

The larger value is valid.

Type BH 53	Rated load	kg	800	1000	1250	1600	2000	2500	3000	4000	5000
Travel speed	v max.	m/s	up to 0.63								
Travel height	TH	m	max. 7.0 ³⁾								
Machine room height	MRH	mm	min. 2000								
Car width \geq Door width	CW \geq DW	mm	see car dimensions								
Car depth	CD	mm	see car dimensions								
Car height \geq Door height	CH \geq DH	mm	2000–2500								
Shaft depth with open through four-panel central opening six-panel sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490								
without open through four-panel central opening six-panel sliding door		mm	CD + 350 CD + 330								
Shaft width (when DW < CW)	SW	mm	CW + 540			CW + 580			CW + 650		
four-panel, central opening sliding door (when DW = CW)			1.5 DW + 170								
six-panel, central opening sliding door (when DW = CW)			4/3 DW + 170								
Shaft head	SHD	mm	min. CH + 1500 ²⁾								
Shaft pit	SP	mm	min. 1400								
Load (stat. and dyn.)	O1	kN	4.5			7.5			9.5		
	O2	kN	5.0			6.0			8.0		
	P1	kN	75.0	86.0	101.0	127.0	142.0	162.0	201.0	241.0	276.0
	P2	kN	37.5	43.0	50.5	63.5	71.0	81.0	100.5	120.5	138.0

2 Telescopic Jacks next to the Elevator Car 1:1

2) The required shaft height SH must be calculated according to 2 formulas

- a) $SH = (1,53 \times TH) + 1675$
 b) $SH = SP + TH + SHD$

The larger value is valid.

3) Larger travel heights are also possible on request.

Type BH 33	Rated load	kg	800	1000	1250	1600
	Travel speed	v max.	m/s	up to 0.63		
Travel height	TH	m	max. 16.0			
Machine room height	MRH	mm	min. 2000			
Car width \geq Door width	CW \geq DW	mm	see car dimensions			
Car depth	CD	mm	see car dimensions			
Car height \geq Door height	CH \geq DH	mm	2000–2500			
Shaft depth with open through	SD on the shaft interior (without door recess)	mm	CD + 530			
without open through		mm	CD + 350			
Door width	DW	mm	1000, 1100, 1200, 1300, 1400			...1500
Shaft width (min.) ¹⁾	SW	mm	1785, 1935, 2085, 2235, 2385 ²⁾ or CW + 550 ³⁾			
Shaft head	SHD	mm	CH + 1300			
Shaft pit	SP	mm	min. 1200			
Load (stat. and dyn.)	P1	kN	64	74	82	100
	O1	kN	5			
	O2	kN	10			

1 Jack next to the Elevator Car 1:2

1) The larger value is valid in each case.

2) Values when DW = CW

3) Values when DW < CW

Freight Elevators with Hydraulic Drive

2 Jacks next to the Elevator Car

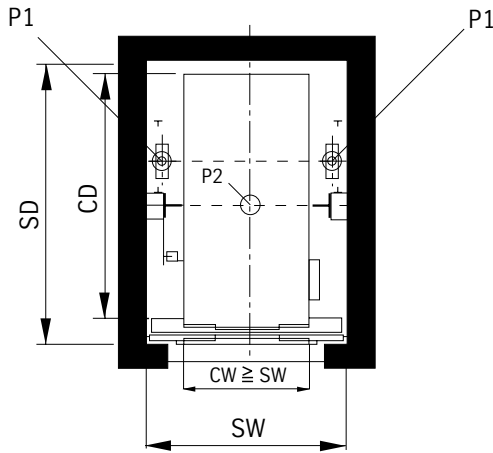
1:2 Suspension

Central Opening Telescopic Sliding Doors M4TZ or T6

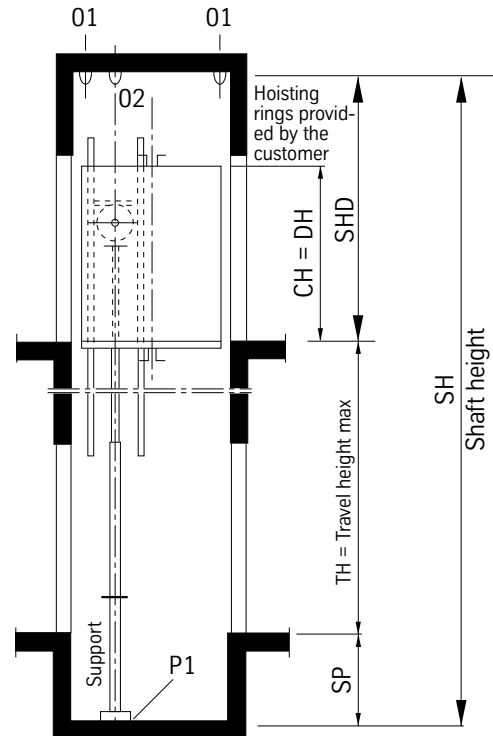
BH 33

1250–5000 kg

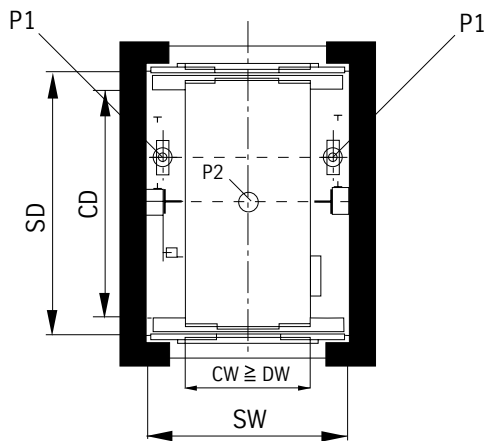
Shaft ground plan without open through



Shaft vertical section

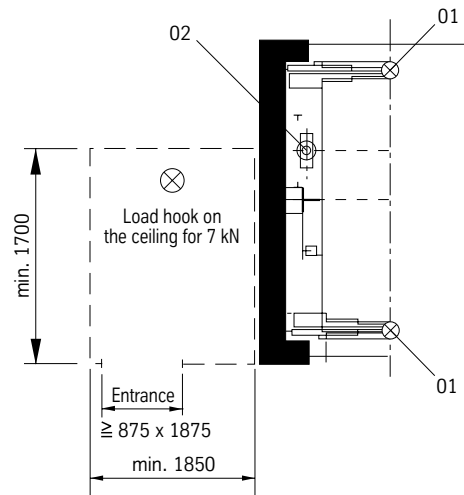


Shaft ground plan with open through



P1 corresponds to the jack's load.

P2 corresponds to the loader per buffer.



Machine room ground plan

Type BH 33	Rated load	kg	1250	1600	2000	2500	3000	4000	5000
			Travel speed	v max.	m/s	up to 0.63			
Travel height	TH	m	max. 18.0 ¹⁾			max. 15.0 ¹⁾			
Machine room height	MRH	mm	min. 2000						
Car width \geq Door width	CW \geq DW	mm	see car dimensions						
Car depth	CD	mm	see car dimensions						
Car height \geq Door height	CH \geq DH	mm	2000–2500						
Shaft depth with open through four-panel central opening six-panel sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490						
without open through four-panel central opening six-panel sliding door		mm	CD + 350 CD + 330						
Shaft width (when DW < CW)	SW	mm	CW + 650			CW + 800			
four-panel, central opening sliding door (when DW = CW)			1.5 DW + 170						
six-panel, central opening sliding door (when DW = CW)			4/3 DW + 170						
Shaft head	SHD	mm	CH + 1350						
Shaft pit	SP	mm	1200			1300		1500	
Load (stat. and dyn.)	O1	kN	7.0			10.0			
	O2	kN	7.0			9.0			
	P1	kN	52.0	57.0	68.0	92.5	104.0	125.5	140.0
	P2	kN	70.0	81.5	97.0	90.0	102.0	93.5	98.5

2 Jacks next to the Elevator Car 1:2

1) Larger travel heights are also possible on request.

Freight Elevators with Hydraulic Drive

1 Jack under the Elevator Car,

SPECIAL CASE: Ground drilling is necessary

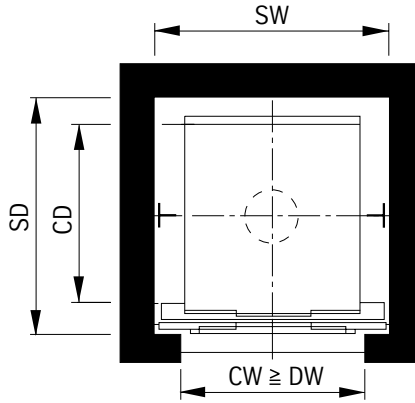
1:1 Suspension

Central Opening Telescopic Sliding Doors M4TZ or T6

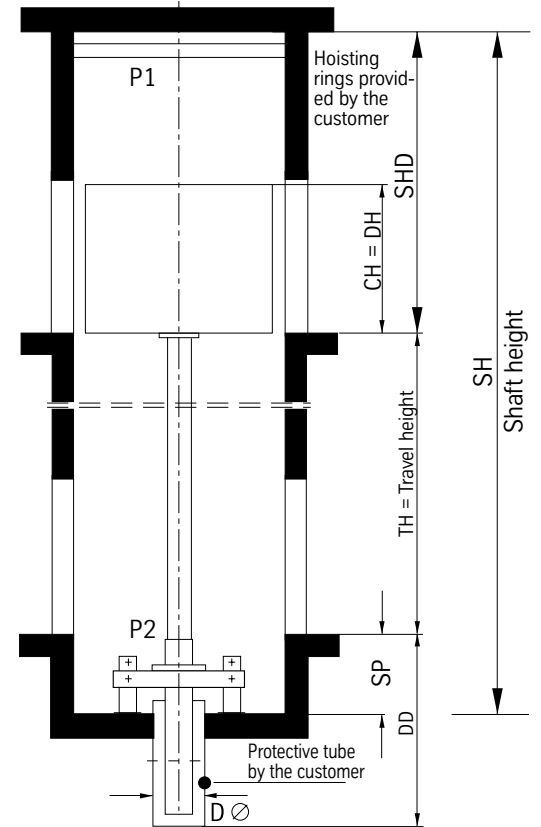
BH 23/53

500–5000 kg

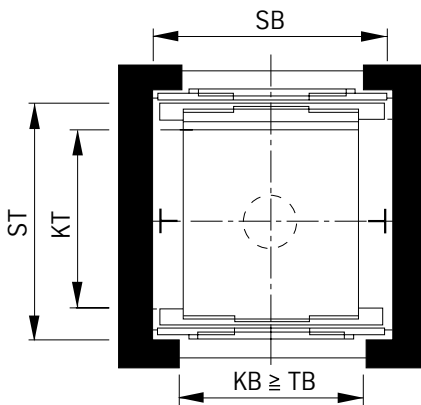
Shaft ground plan without open through



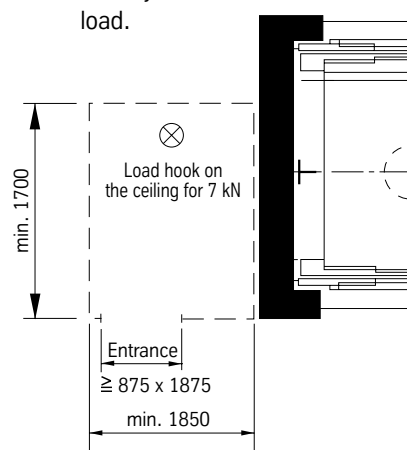
Shaft vertical section



Shaft ground plan with open through



P2 corresponds to the jack's load.



Machine room ground plan

Type BH 23	Rated load	kg	500	800	1000	1250	1600	2000	2500	3000	4000	5000		
			Travel speed	v max.	m/s	up to 0.63								
Travel height	TH	m	max. 10.0											
Machine room height	MRH	mm	min. 2000											
Car width \geq Door width	CW \geq DW	mm	see car dimensions											
Car depth	CD	mm	see car dimensions											
Car height \geq Door height	CH \geq DH	mm	2000–2500											
Shaft depth with open through four-panel central opening six-panel sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490											
		mm	CD + 350 CD + 330											
Shaft width (when DW < CW)	SW	mm	CW + 450									CW + 480		
four-panel, central opening sliding door (when DW = CW)			1.5 DW + 170											
six-panel, central opening sliding door (when DW = CW)			4/3 DW + 170											
Shaft head	SHD	mm	min. CH + 1450											
Shaft pit up to jack \varnothing 110 mm	SP	mm	1150							–				
Shaft pit from jack \varnothing 120 mm	SP	mm	–						1400	1500	1600			
Drilling depth	DD	mm	TH + 1800											
Protective tube \varnothing to DIN 2448	D	mm	355.6 or 406.4						406.4 or 508		457 or 559			
Load (stat. and dyn.)	P1	kN	15.5	18.0	22.0	23.0	30.0	32.0	33.0	41.5	44.0	50.0		
	P2	kN	58.0	76.0	91.0	101.0	127.0	147.0	162.0	201.0	241.0	276.0		

1 Jack under the Elevator Car 1:1

Type BH 53	Rated load	kg	500	800	1000	1250	1600	2000	2500
			Travel speed	v max.	m/s	up to 0.63			
Travel height	TH	m	max. 12.0 *						
Machine room height	MRH	mm	min. 2000						
Car width \geq Door width	CW \geq DW	mm	see car dimensions						
Car depth	CD	mm	see car dimensions						
Car height \geq Door height	CH \geq DH	mm	2000–2500						
Shaft depth with open through four-panel central opening six-panel sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490						
		mm	CD + 350 CD + 330						
Shaft width (when DW < CW)	SW	mm	CW + 450						
four-panel, central opening sliding door (when DW = CW)			1.5 DW + 170						
six-panel, central opening sliding door (when DW = CW)			4/3 DW + 170						
Shaft head Two-stage jack v \leq 0.50 m/s v = 0.51 \leq 0.63 m/s	SHD	mm	min. CH + 1450 min. CH + 1500						
		mm	min. CH + 1450 min. CH + 1500						
Three-stage jack v \leq 0.50 m/s v = 0.51 \leq 0.63 m/s	SP	mm	min. 1450						
Drilling depth Two-stage jack Three-stage jack	DD	mm	(0.53 x TH) + 1450						
		mm	(0.36 x TH) + 1550						
Protective tube \varnothing to DIN 2448	D	mm	508						
Load (stat. and dyn.)	P1	kN	15.5	18.0	22.0	23.0	30.0	32.0	33.0
	P2	kN	58.0	76.0	91.0	101.0	127.0	147.0	162.0

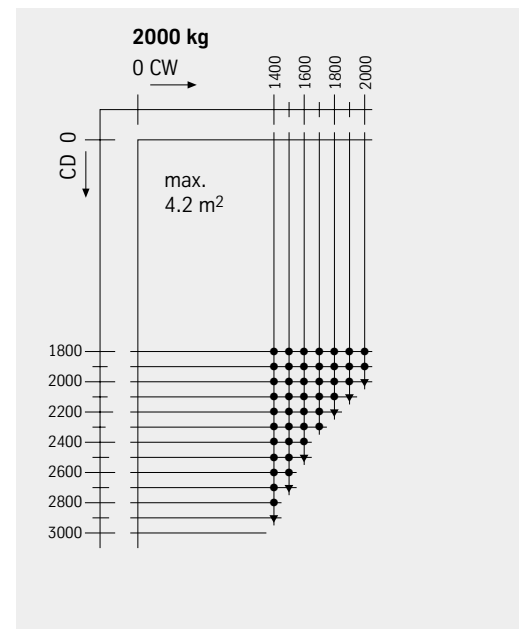
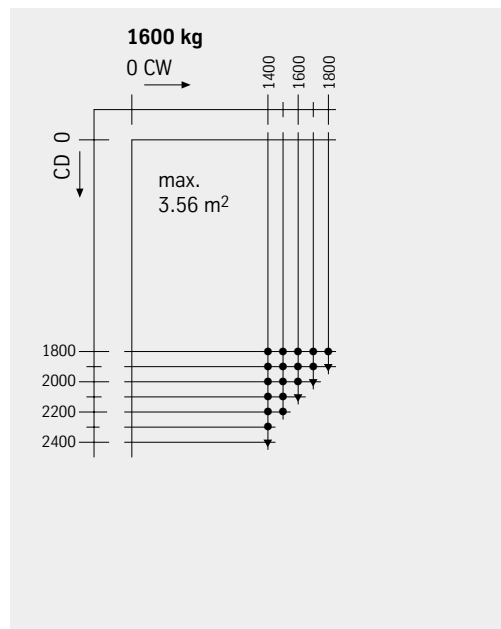
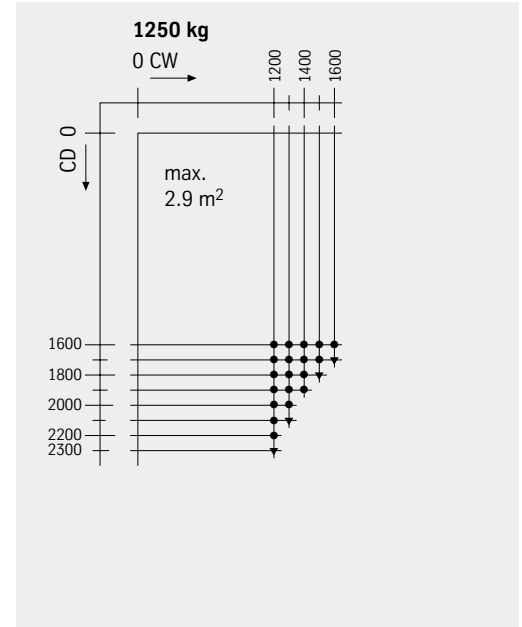
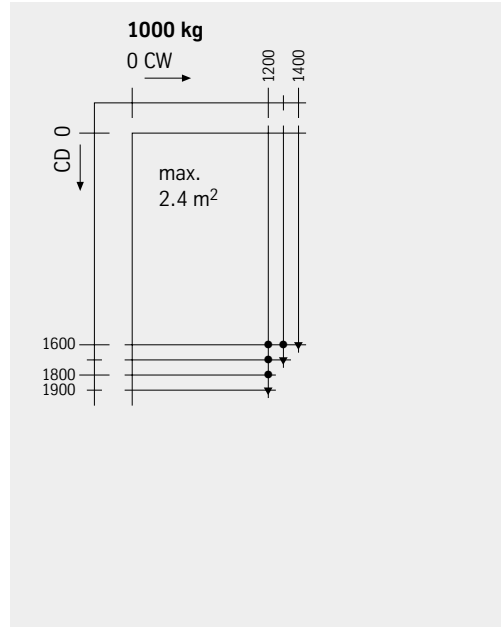
1 Telescopic Jack under the Elevator Car 1:1

* Larger travel heights are also possible on request.

Car Dimensions for Freight Elevators with Traction Drive 2:1 Suspension

BO 53

1000–5000 kg

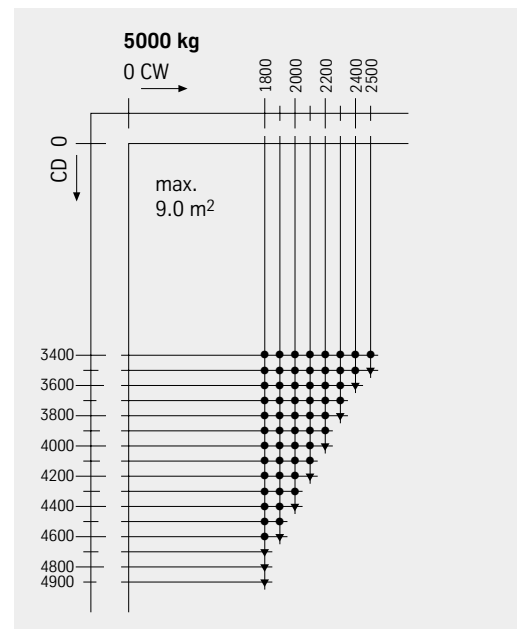
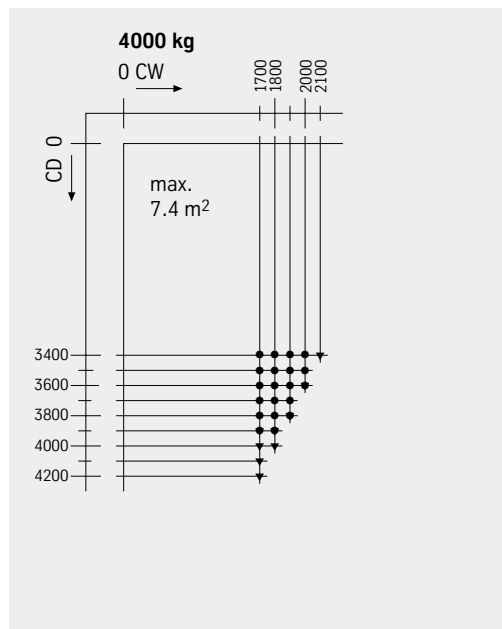
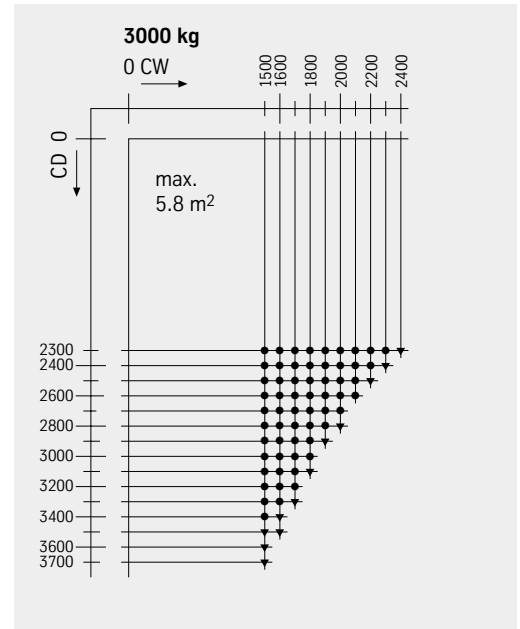
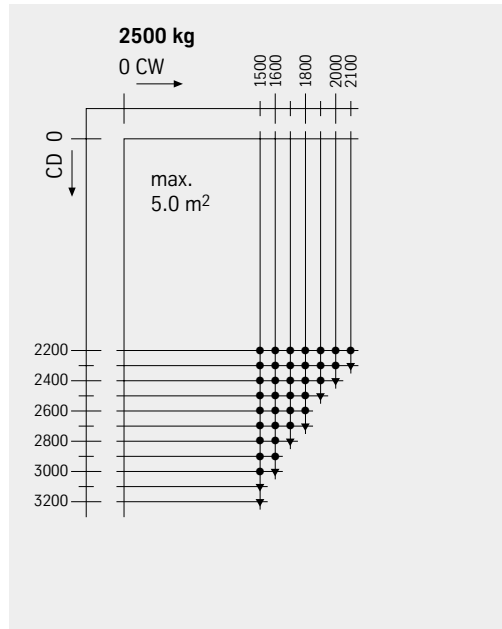


Information on using the grid system:

Do **not** exceed the specified maximum available car area **plus** the treadway area(s) [EN 81-2, 8.2.1].

The size of the treadway area is oriented to the chosen door design and door width.

Car Dimensions for Freight Elevators with Traction Drive 2:1 Suspension



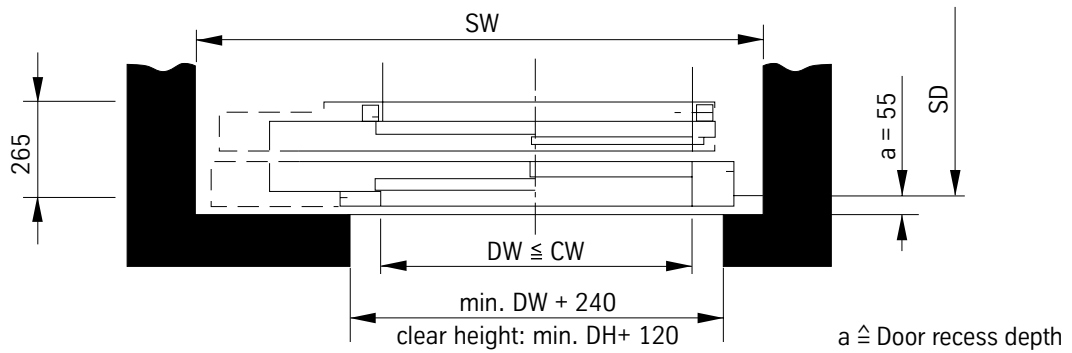
Information on using the grid system:
Do **not** exceed the specified maximum available car area **plus** the treadway area(s) [EN 81-2, 8.2.1].
The size of the treadway area is oriented to the chosen door design and door width.

Automatic Sliding Doors for Freight Elevators

M2T

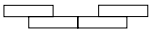


Side opening, two-panel telescopic sliding door M2T

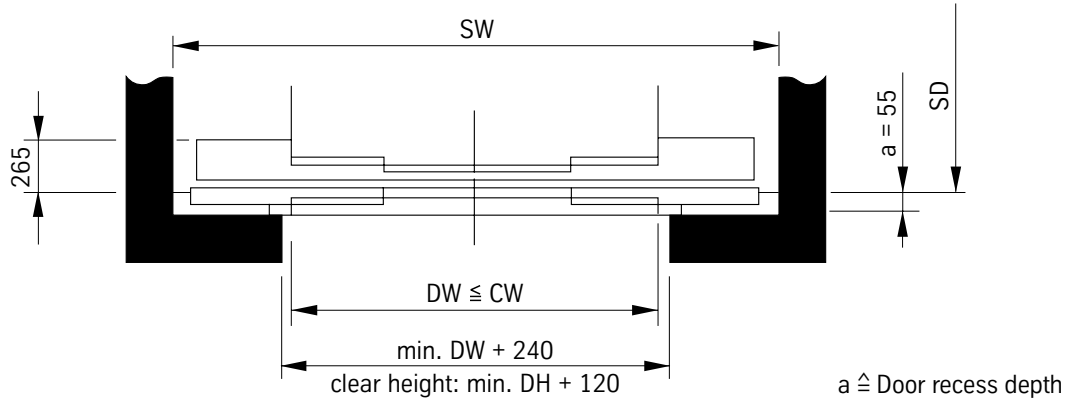


for maximum wheel load 280 kg (aluminium profile) and 500 kg (stainless steel profile)

M4TZ

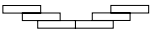


Central opening, four-panel telescopic sliding door M4TZ

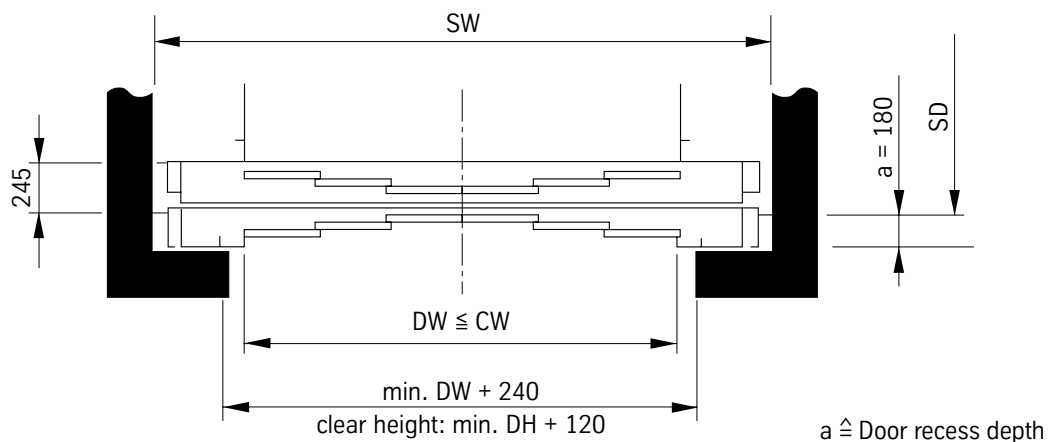


for maximum wheel load 280 kg (aluminium profile) and 500 kg (stainless steel profile)

T6



Central opening, six-panel telescopic sliding door T6



for maximum wheel load 5000 kg (heavy sill)
at a minimum track width of 1400 mm and 1500 kg (light sill)

Freight Elevators with Traction Drive

Machine Room above the Shaft

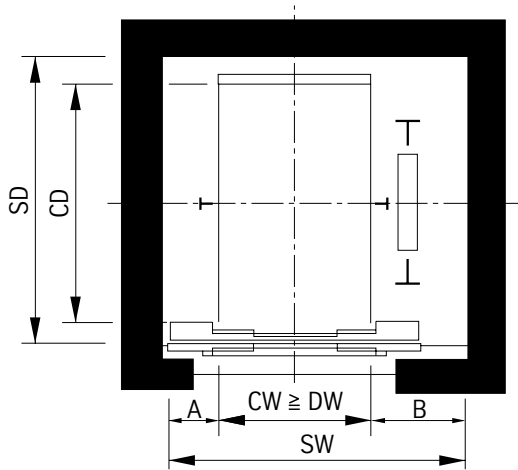
2:1 Suspension

Automatic Sliding Doors M4TZ, T6 or M2T

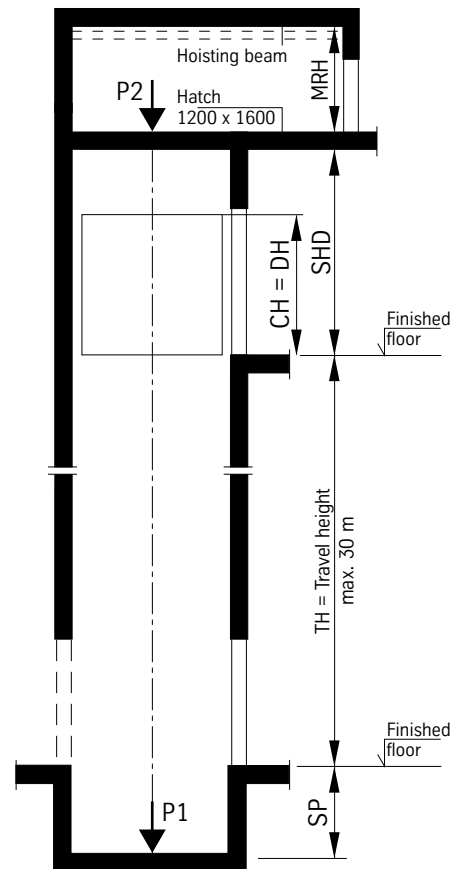
BO 53

1000–5000 kg

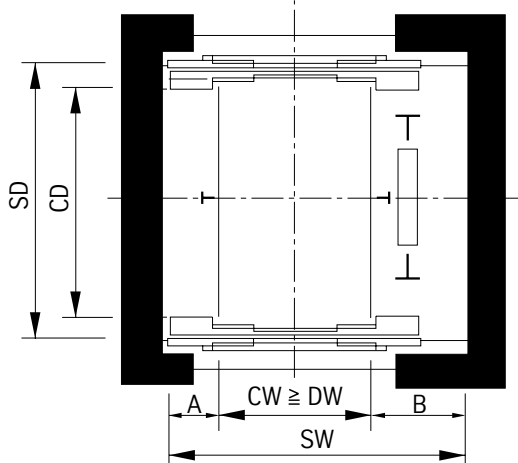
Shaft ground plan without open through



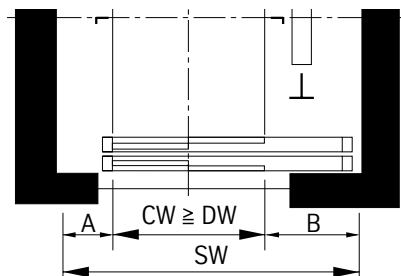
Shaft vertical section



Shaft ground plan with open through

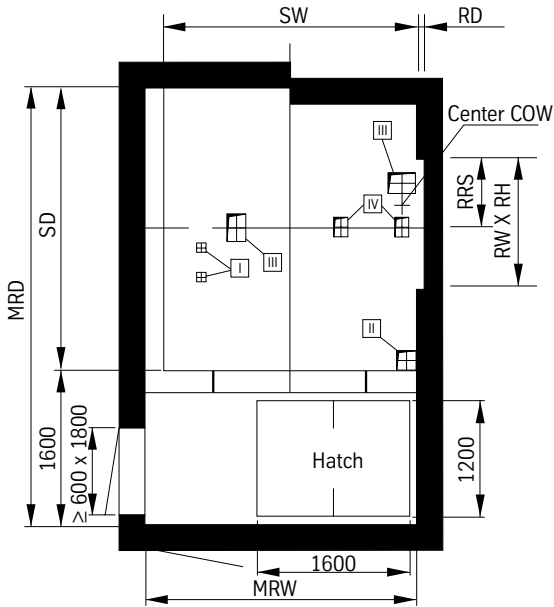


Shaft ground plan with telescopic sliding door

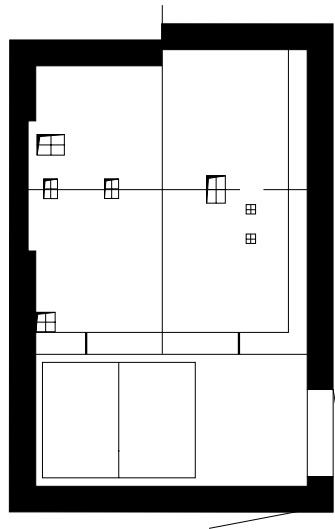


Machine room arrangements

Q = 1000 to 3000 kg



Extension to the left



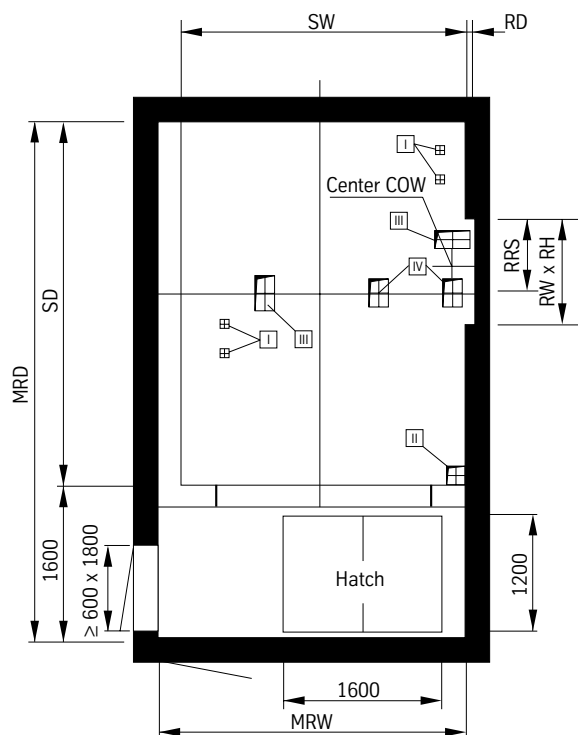
Extension to the right

Ceiling penetrations (CP):

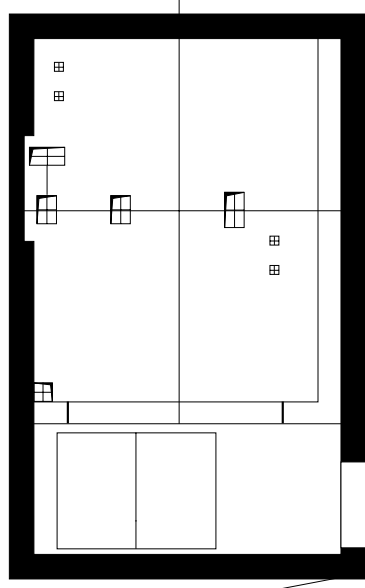
Pos.-No.	CP	Note
	mm	
I	100 x 100	governor
II	200 x 200	e-installation
III	200 x 280	max. 8 ropes \varnothing 10
	200 x 320	max. 8 ropes \varnothing 13
IV	200 x 200	TW 63
	150 x 200	W 191
	230 x 230	TW 160

Machine room arrangements

Q = 4000/5000 kg



Extension to the left



Extension to the right

Ceiling penetrations (CP):

Pos.-No.	CP	Note
	mm	
I	100 x 100	governor
II	200 x 200	e-installation
III	200 x 320	max. 8 ropes \varnothing 13
IV	200 x 280	W 332 B

Type B0 53		Rated load	kg	1000	1250	1600	2000	2500	3000	4000	5000
Travel speed	v	m/s	0.63 and 1.0								
Machine room height	MRH	mm	min. 2100			min. 2300					
Machine room depth	MRD	mm	SD carcass + 1600								
Machine room width	MRW	mm	at least B or min. door dimension COW side ¹⁾ (the larger value is valid) + CW + 750								
Recess width x recess height	RW x RH	mm	1200 x 700		1350x700	1450 x 700		1350x700	1450x700		
Recess depth	RD		50			100	70	130 ²⁾			
Recess rope suspension	RRS		700			800	750	850			
Car width \geq Door width	CW \geq DW	mm	see car dimensions								
Car depth	CD	mm	see car dimensions								
Car height \geq Door height	CH \geq DH	mm	2000–2500								
Shaft depth with open through four-panel central opening six-panel sliding door telescopic sliding door	SD on the shaft interior (without door recess)	mm	CD + 530 CD + 490 CD + 530								
without open through four-panel central opening six-panel sliding door telescopic sliding door		mm	CD + 350 CD + 330 CD + 350								
Shaft width when Door width = Car width	SW DW = CW	mm	SW _{min} = 1,5 DW + 170 (at least DW + A + B) ³⁾ four-panel, central opening sliding door SW _{min} = 4/3 DW + 170 (at least DW + A + B) ³⁾ six-panel, central opening sliding door SW _{min} = 1,5 DW + 85 + A (at least DW + A + B) ³⁾ telescopic sliding door								
when Door width < Car width	DW < CW		four-panel, central opening sliding door six-panel, central opening sliding door telescopic sliding door SW _{min} = CW + A + B ⁴⁾								
Small bracket side COW side	A B		220						285	320	
Shaft pit	SP	mm	min. 1350				min. 1400		1500 ⁵⁾ to 1700	1600 ⁶⁾ to 1800	
Shaft head	SHD	mm	1700		1750	1800			1600 ⁵⁾ to 1900	1650 ⁶⁾ to 1900	
Load (stat. and dyn.)	P1	kN	82	98	115	138	145	192	236	303	
	P2	kN	68	79	93	105	115	154	182	231	

Aufhängung 2:1

- 1) min door dimension COW side:
0.25 DW + 85 (four-panel, central opening sliding door)
1/6 DW + 85 (six-panel, central opening sliding door)
0.5 DW + 85 (telescopic sliding door)
- 2) RD = 70 (telescopic sliding door)
RD = 130 (central opening sliding door)
- 3) The larger value is valid.
- 4) Taking into account the min. door dimensions (the larger value is valid).

5)

Q = 4000 kg		
CH	SP	SHD
mm		
2000	1700	CH + 1900
2100	1650	CH + 1850
2200	1600	CH + 1800
2300		CH + 1700
2400	1550	CH + 1650
2500	1500	CH + 1600

6)

Q = 5000 kg		
CH	SP	SHD
mm		
2000	1800	CH + 1900
2100	1750	CH + 1850
2200	1700	CH + 1800
2300	1650	CH + 1750
2400		CH + 1650
2500	1600	

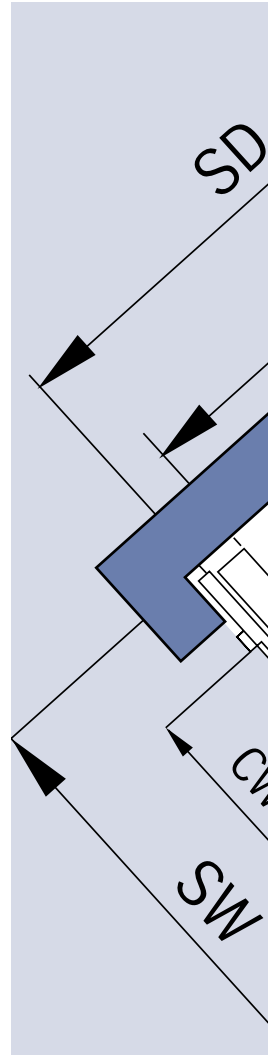
For additional information as well as planning and project data please see

Planning information:

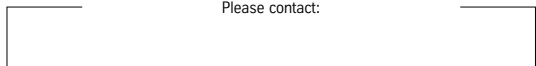
- Passenger and freight elevators (9700 000 1530)

Project planning documents:

- Comfort door S8/K8 – planning information and project planning data (9700 000 1529)
- Door openings – comfort door S8/K8 (9700 000 1534)
- Evolution® flexible – traction drive elevator without machine room with variable car dimensions, rated load 630–2500 kg (9700 000 6724)



Please contact:



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