

# 2000 B-HR

DOORS FOR HIGH-RISE ELEVATORS



APPLICATIONS		DESTINATIONS					
		PASSENGERS		GOODS		SPECIAL USES	
		DOORS	CARS	DOORS	CARS	DOORS	CARS
HOMELIFT			ADAPTA VARIO				
RESIDENTIAL		2000 B-HR LOW	ADAPTA		CARGO		CUSTOM
OFFICES		2000 B-HR LOW	ADAPTA		CARGO		CUSTOM PANOR./ CUSTOM
HIGH RISE		2000 B-HR MED 2000 B-HR TOP	VARIO		CARGO		CARGO
HOSPITALS		2000 B-HR LOW	VARIO		ADAPTA		ADAPTA
TRANSPORT		2000 B-HR LOW	ADAPTA		CARGO		CUSTOM
MODERNIZATION			EASY ADAPTA		CARGO		CARGO
HOTELS		2000 B-HR LOW 2000 B-HR MED 2000 B-HR TOP	VARIO		ADAPTA		PANORAMIC CUSTOM
SHOPPING CENTERS		2000 B-HR LOW	ADAPTA		ADAPTA		CARGO PANOR./ CUSTOM
INDUSTRIAL					CARGO		CUSTOM CARGO



## Aiming higher and higher as fast, safely and comfortably as possible

Sematic 2000 B-HR is the ideal solution for passenger movement within all high-rise buildings, as it includes: fast, quiet and smooth door opening and closing (allowing for efficient traffic management flow), exceptional robustness, excellent transport comfort, unrivalled aesthetic properties and all in full compliance with the most stringent safety regulations.

All of its components and technical solutions have been

analyzed and endurance tested in our laboratories across millions of cycles, ensuring that this door guarantees constant high performance over a long life.

A wide range of finishes, options and certifications are available too. For all these reasons, Sematic 2000 B-HR has been selected by companies, architects, and consultants for installation in some of the world's most prestigious buildings.

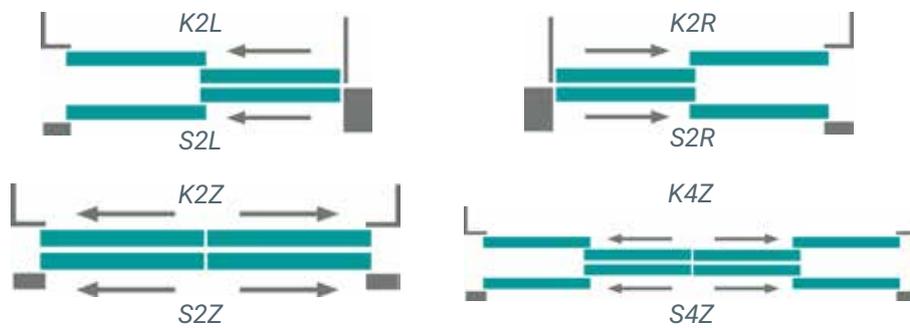
All the information and pictures are related to MED and TOP configurations. For HR-LOW see our technical catalogues.

PRODUCT RANGE			BOTTOM TRACK PACK OVERALL DIMENSION (mm)			
Model	TB min-max (mm)	TH min-max (mm)	Opening	K (car)	S (landing)	Pack <sup>(1)</sup>
K-S 2R/L	800 - 1400	2000 - 3000	2R/L	120	120	265
K-S 2Z	800 - 1400	2000 - 3000	2Z	85	90	200
K-S 4Z	1300 - 2200	2000 - 3000	4Z	120	120	265

For further information see our technical catalogues

<sup>(1)</sup> 25mm bottom track distance

### DOOR OPENING TYPE



### FIRE RATED EXECUTIONS - EN 81-58

Model	Steel doors	Framed glass doors
S 2R/L	E 120 EW 60 EI 60 EI 120	E 120
S 2Z		
S 4Z		

BS 476, GOST and many other certifications available. Call for information.

### SEMATIC FOR ENERGY SAVING

At Sematic, we take our energy use seriously. We have developed a set of technological devices that allow our elevator components to use as little energy as possible, such as our Sematic SDS door controller.

\* Door power consumption difference between normal standby mode and parking mode measured in laboratory



CABIN SUGGESTED FOR THIS DOOR

> VARIO

All the information and pictures are related to MED and TOP configurations. For HR-LOW see our technical catalogues.

VERSION	LOW	MED	TOP
Typical application	Residential Mid-rise and High-rise	Mid-rise offices	High-traffic flow offices
Elevator speed	< 4m/s	4-6m/s	> 6m/s
Door drive controller	SDS	SDS HV	SDS HV
Motor control	DC PWM Standard	Vector control	Vector control
Skate type	Std expansion skate	HR2 expansion skate	HR2 expansion skate
Main supply	90-230 Vac 50-60Hz Single phase	230/400 Vac 50-60Hz Single/Three-phase*	230/400 Vac 50-60Hz Single/Three-phase*
Motor type	24 Vdc	Brushless 5A	Brushless 8A
Max moving mass	240 kg	320 kg	400 kg
Active clutch	-	Standard	Standard
Backup battery	-	Standard	Standard
KPC closing panel contact	-	Standard	Standard

(\*) depending on the application

#### STANDARD MOTORIZATION \*

Belt-driven operator with 230/430 Vac Brushless Motor with optical Encoder controlled by an electronic card with microprocessor (SDS© - AC-VVVF HV-MV Technology)

- Power supply voltage: 230/400 Vac single phase or three phase
- Installed power: variable according to the supplied motor and power supply
- Operating temperature range: from -10°C to +60°C
- Operating humidity range: from up to 80% non-condensing
- On-board obstacle detection (door re-opening) feature
- Separately adjustable opening and closing speed
- Integrated self-learning cycle and automated speed profiles setting
- Self-learning cycle at the first installation in order to acknowledge door dimension and form opening and closing curves
- Double TB opening management

DOOR AND FRAME FINISHES	STANDARD	OPTIONS
RAL 9005	✓	✗
Other RAL Colours	✗	✓
Framed glass panels	✗	✓
Stainless steel claddings	✗	✓
Full glass	✗	Custom

BOTTOM TRACK	STANDARD	OPTIONS
Aluminum	✓	✗
Steel	✗	✓
Stainless steel	✗	AISI 304 / AISI 316

# 2000 B-HR

## Landing Door

All the information and pictures are related to MED and TOP configurations. For HR-LOW see our technical catalogues.



2Z TOP execution shown in the picture

MAIN FEATURES	STANDARD	OPTIONS
Certified locking device	✓ EN81-1/2 ✓ EN81-20/50	✗
Position of the lock release	Integrated in the header (Low) Integrated in the side post (Med/Top) Spring (Low)	✗
Door closing	Counterweight (Top/Med 2RL) Spirator (Med 2Z)	Counterweight (Med 2Z)
Door panels	Single skin (Med-Low) Double skin (Top)	Double skin (Med-Low)
Header height	280 mm	✗
Frame	Boxed 100x100 mm door posts	Boxed 50x50 mm door posts Angle 100x45 mm door posts Basic 100x45 mm door posts
Installation	Door posts partially on the floor	In the shaft
Kit man in the pit	In case of EN81-20/50	In case of EN81-1/2
Monostable contact	✗	Only Custom
Impact robust packaging	Seaworthy	✗

### SPECIAL EXECUTION

### OPTIONS

Air-seal execution	✓
Anti-vandal execution	EN81-71
Australia execution	✓

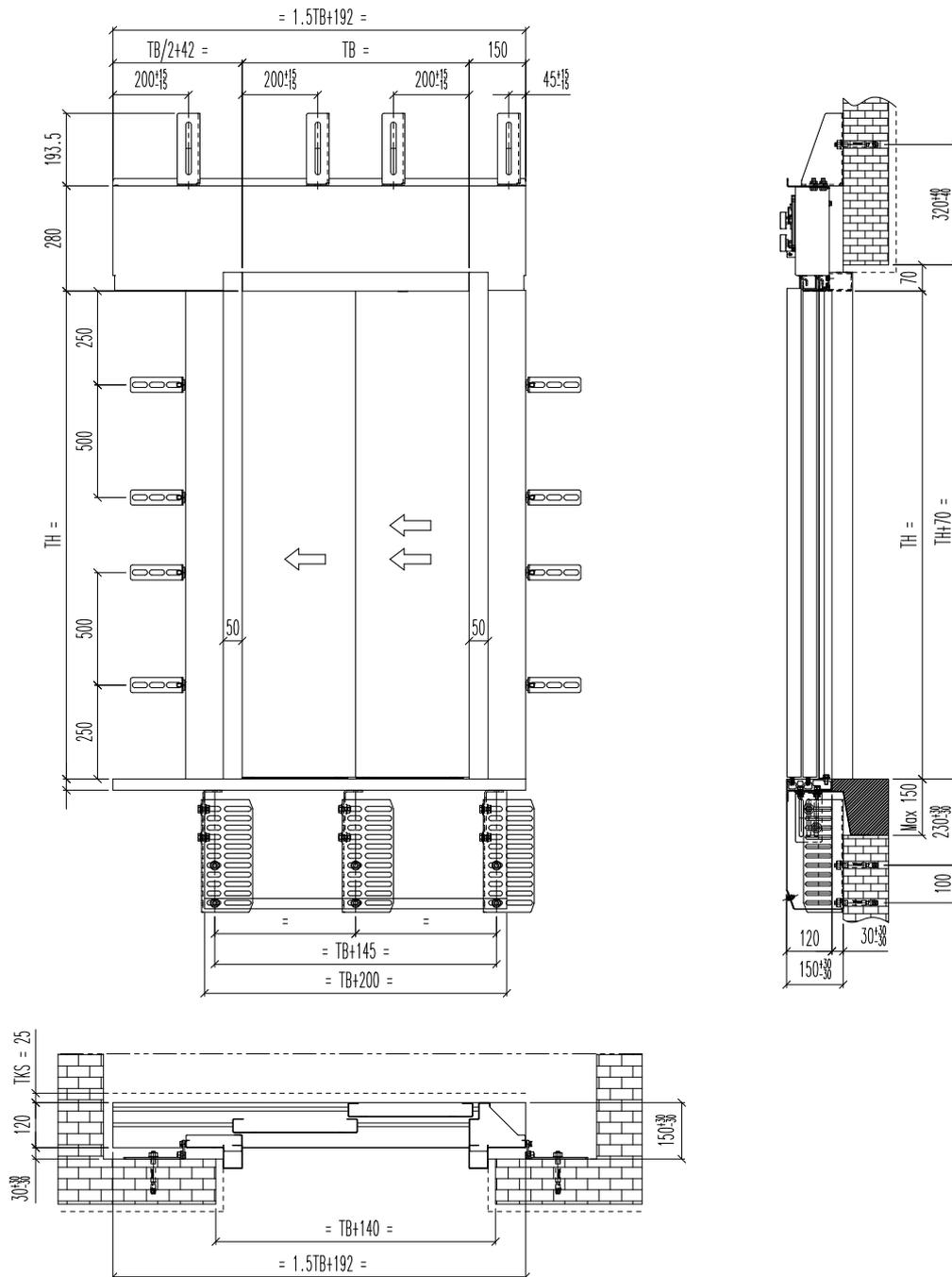
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MAIN FEATURES	STANDARD	OPTIONS
Locking device	EN81-20/50 EN81-1/2	x
Skate	Expansion (Low) Expansion HR (Top-Med)	x
Motorization	See page 5	x
Door controller	SDS DC PWM (Low) SDS Brushless AC-VVVF HV (Top/Med) and controller HR2 active clutch IP54	x
Door panels	Single skin (Low) Double skin (Top/Med)	Double skin (Low)
Detecting system	x	Dynamic / Static (Low) Dynamic (Top/Med)
Operator height	490 mm	x
Average car door cycles per year	800.000 (Low/Med) 900.000 (Top)	x
Impact robust packaging	Seaworthy	x
Active clutch	✓ by motor (only for Top and Med)	x
Retractable safety edge	x	✓
Car front sealing (CFS)	x	✓ (only for Top and Med)



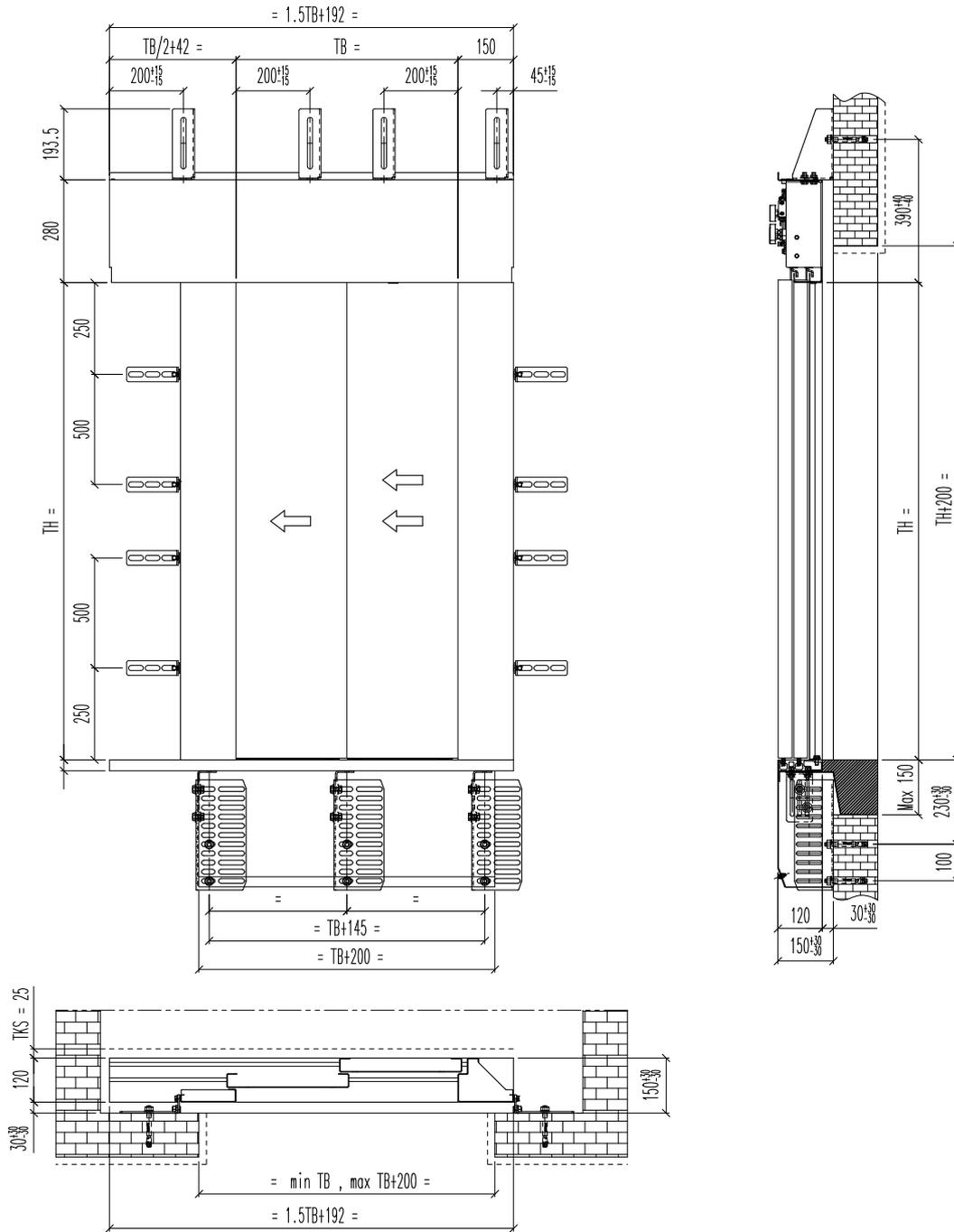
### 2L BOXED FRAME 50 LAYOUT: FRONT, SIDE VIEWS AND COUPLING



#### NOTES

- Boxed frame 50 mm (optional)
- 2L as drawing, 2R mirrored
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
- For further information see our technical catalogues

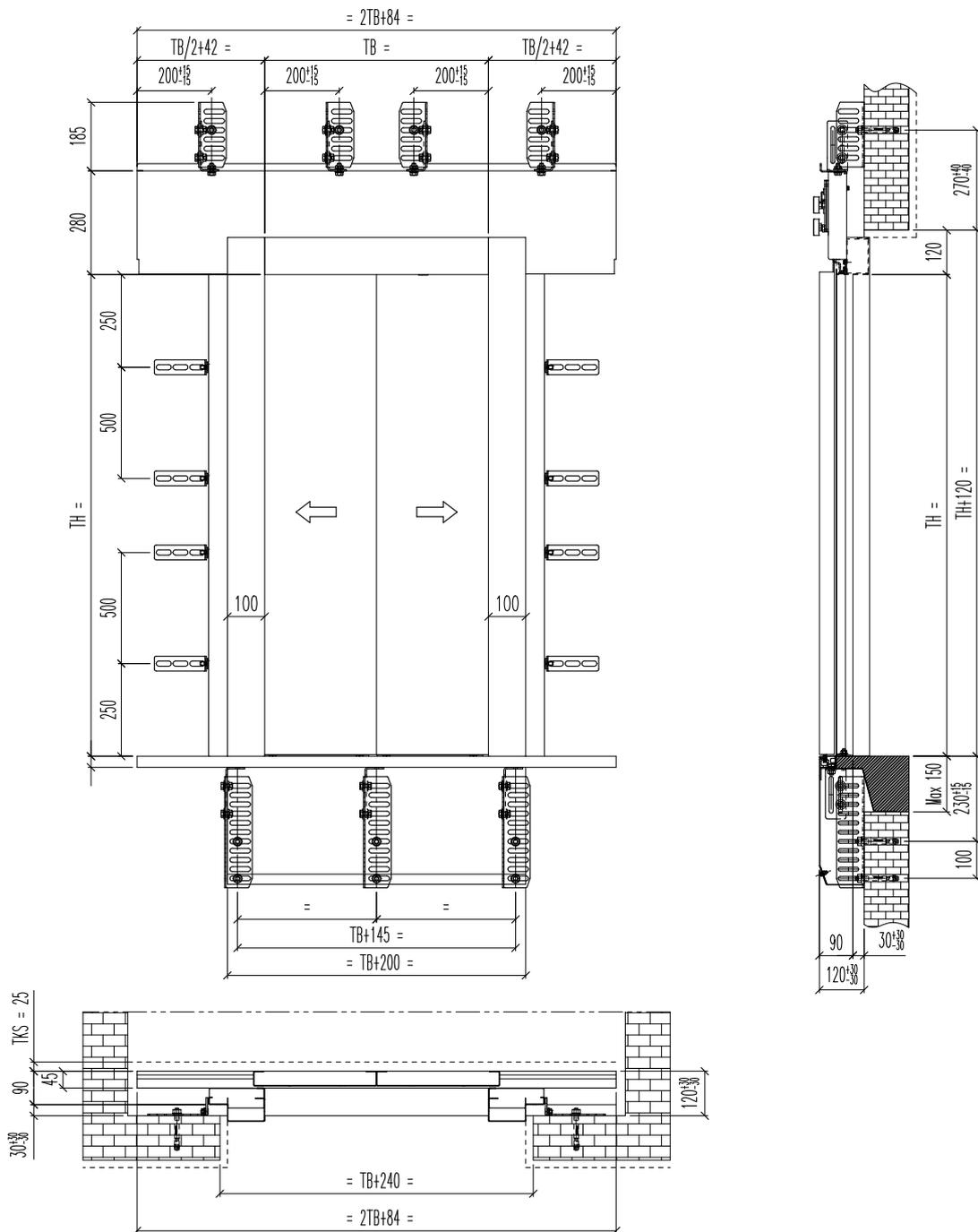
2L BASIC FRAME LAYOUT: FRONT, SIDE VIEWS AND COUPLING



NOTES

- Basic frame (optional)
- 2L as drawing, 2R mirrored
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
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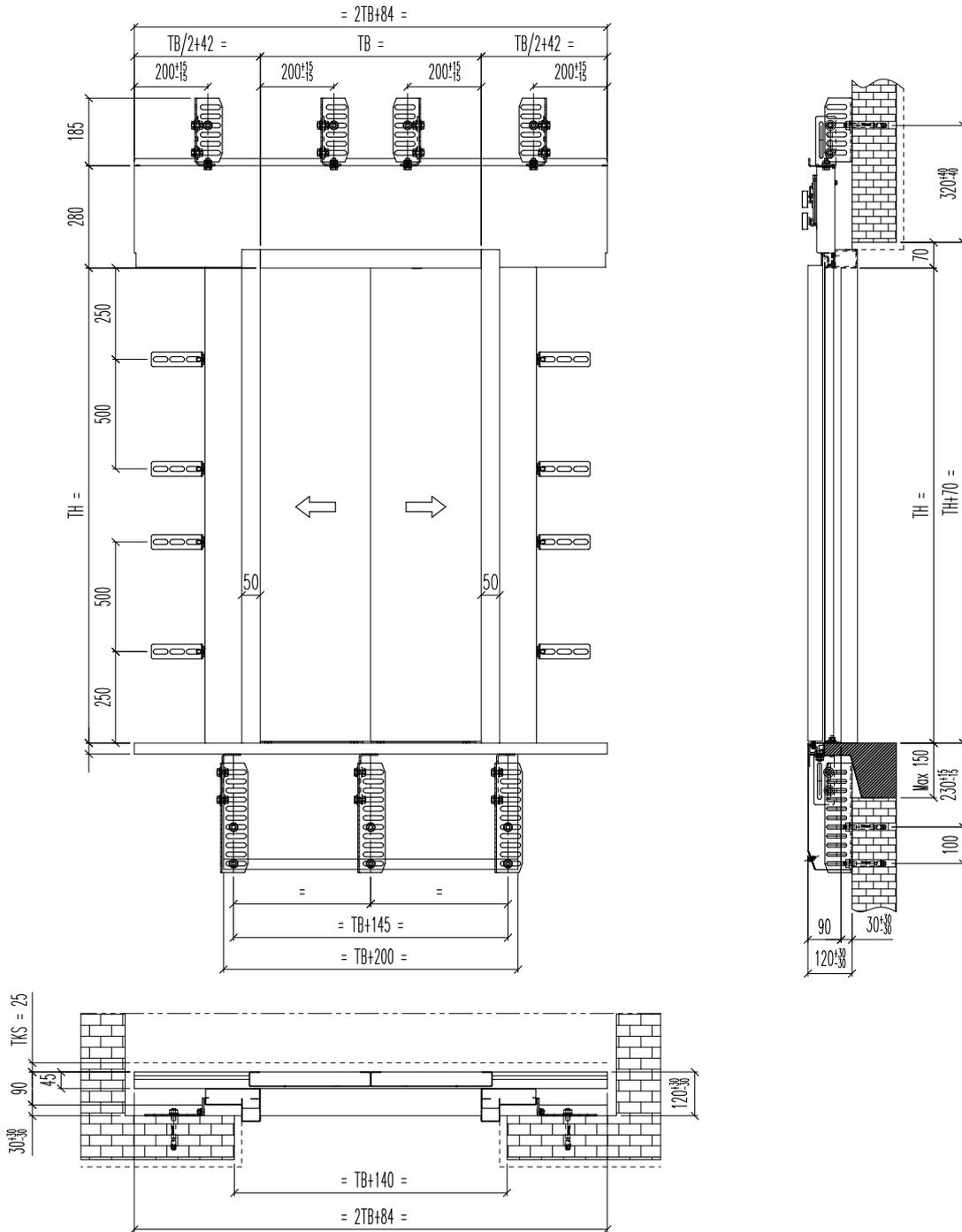
### 2Z BOXED FRAME 100 LAYOUT: FRONT, SIDE VIEWS AND COUPLING



#### NOTES

- Boxed frame 100 mm
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
- For further information see our technical catalogues

2Z BOXED FRAME 50 LAYOUT: FRONT, SIDE VIEWS AND COUPLING

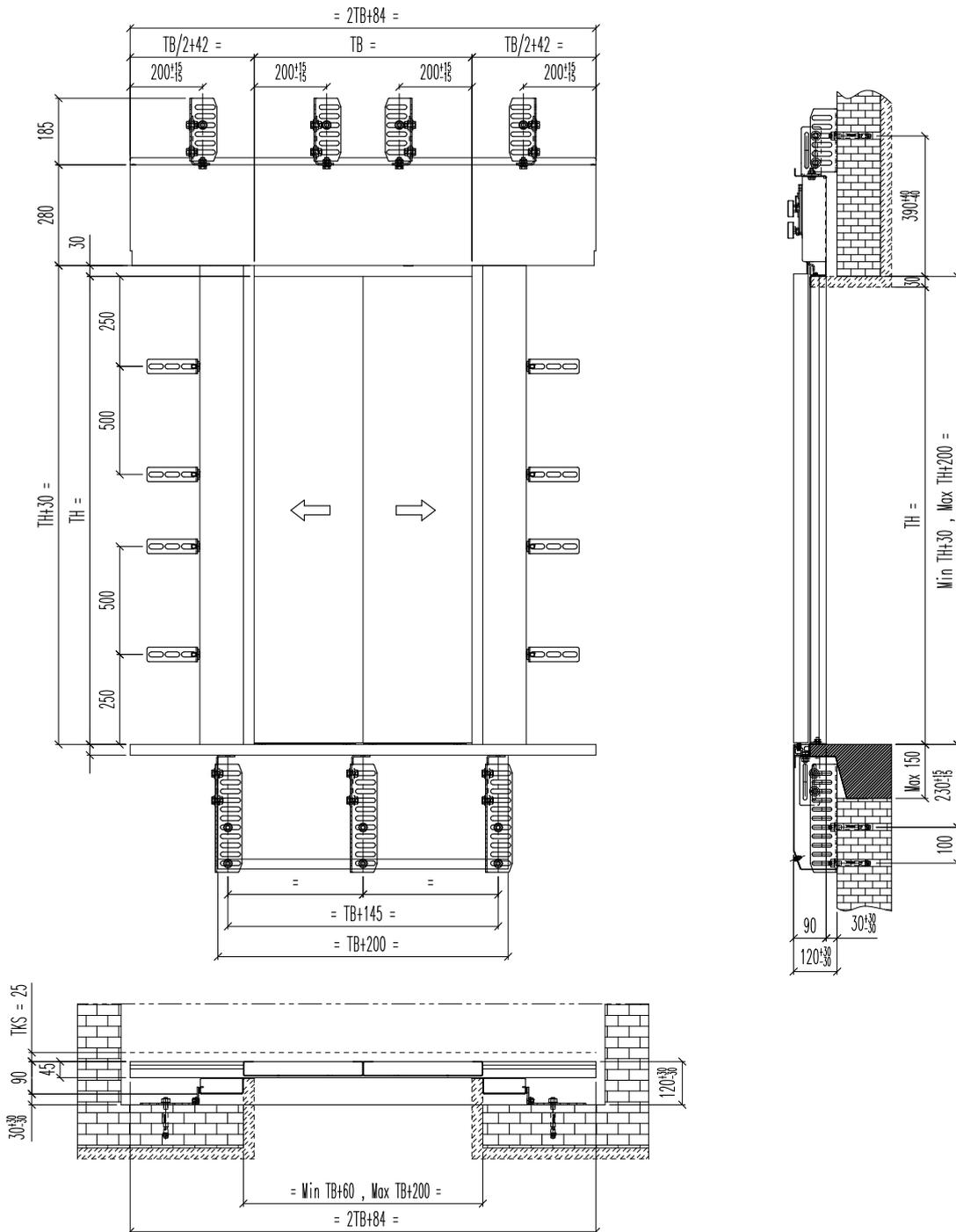


NOTES

- Boxed frame 50 mm (optional)
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
- For further information see our technical catalogues



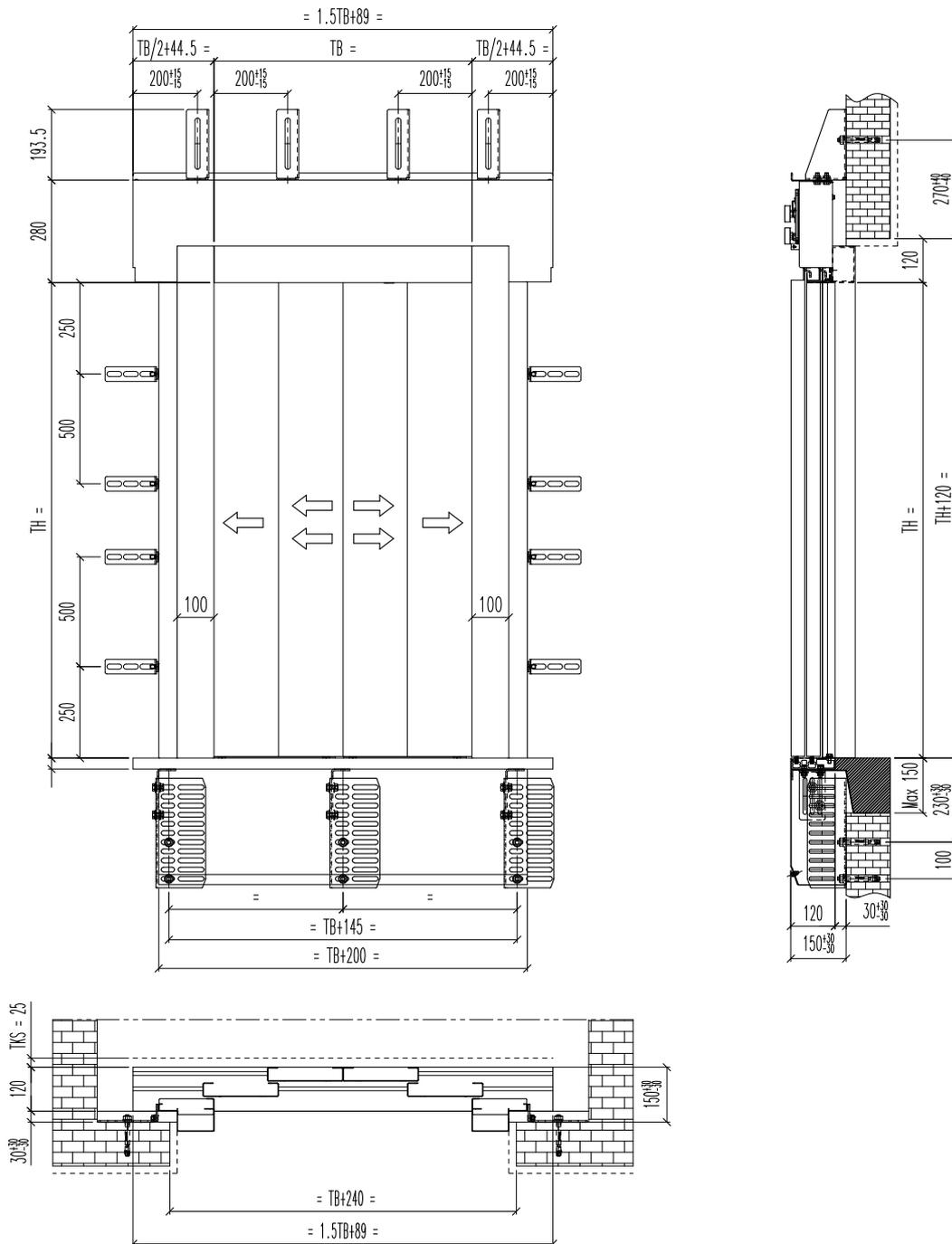
2Z ANGLE FRAME LAYOUT: FRONT, SIDE VIEWS AND COUPLING



NOTES

- Angle frame (optional)
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
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4Z BOXED FRAME 100 LAYOUT: FRONT, SIDE VIEWS AND COUPLING

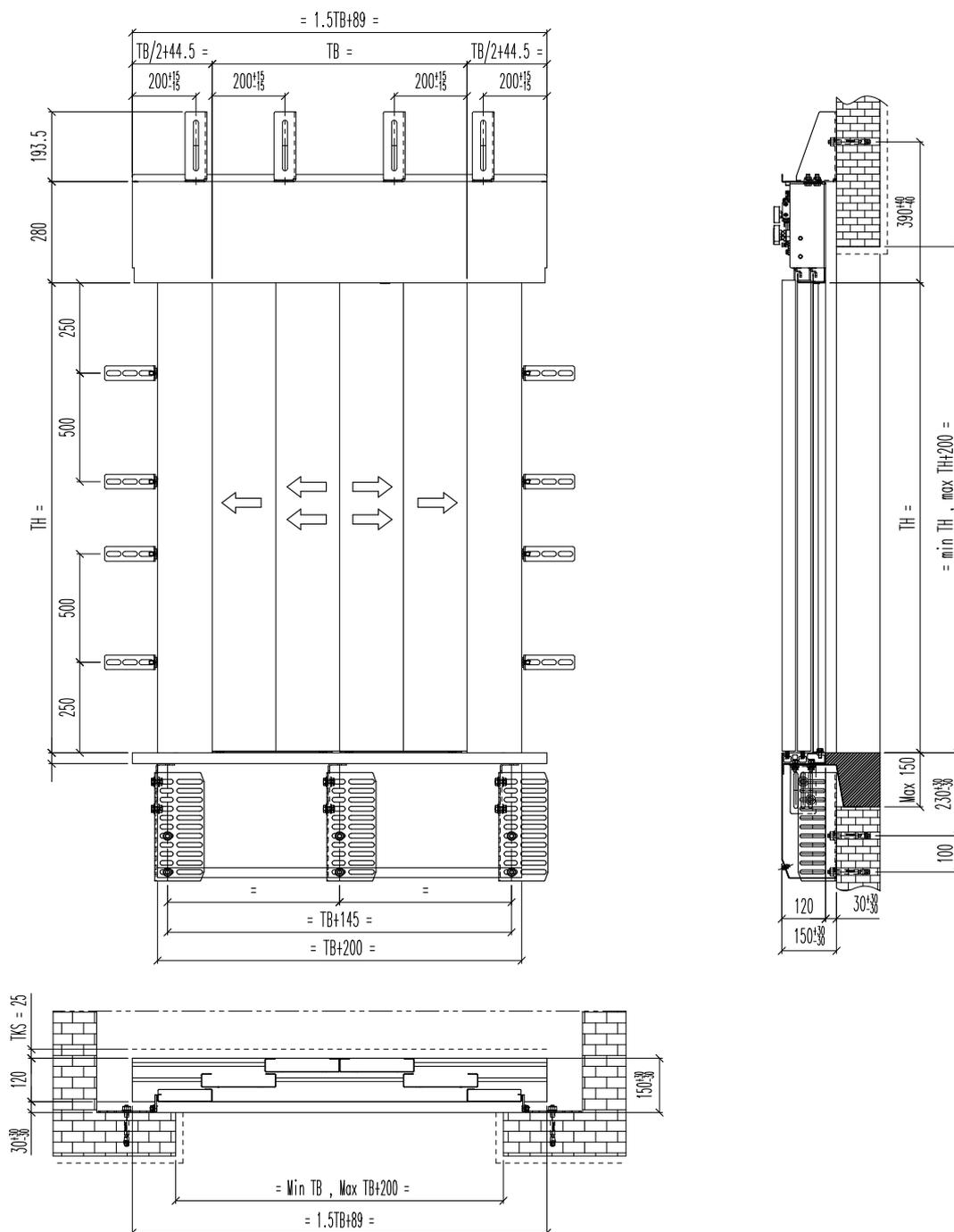


NOTES

- Boxed frame 100 mm
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
- For further information see our technical catalogues



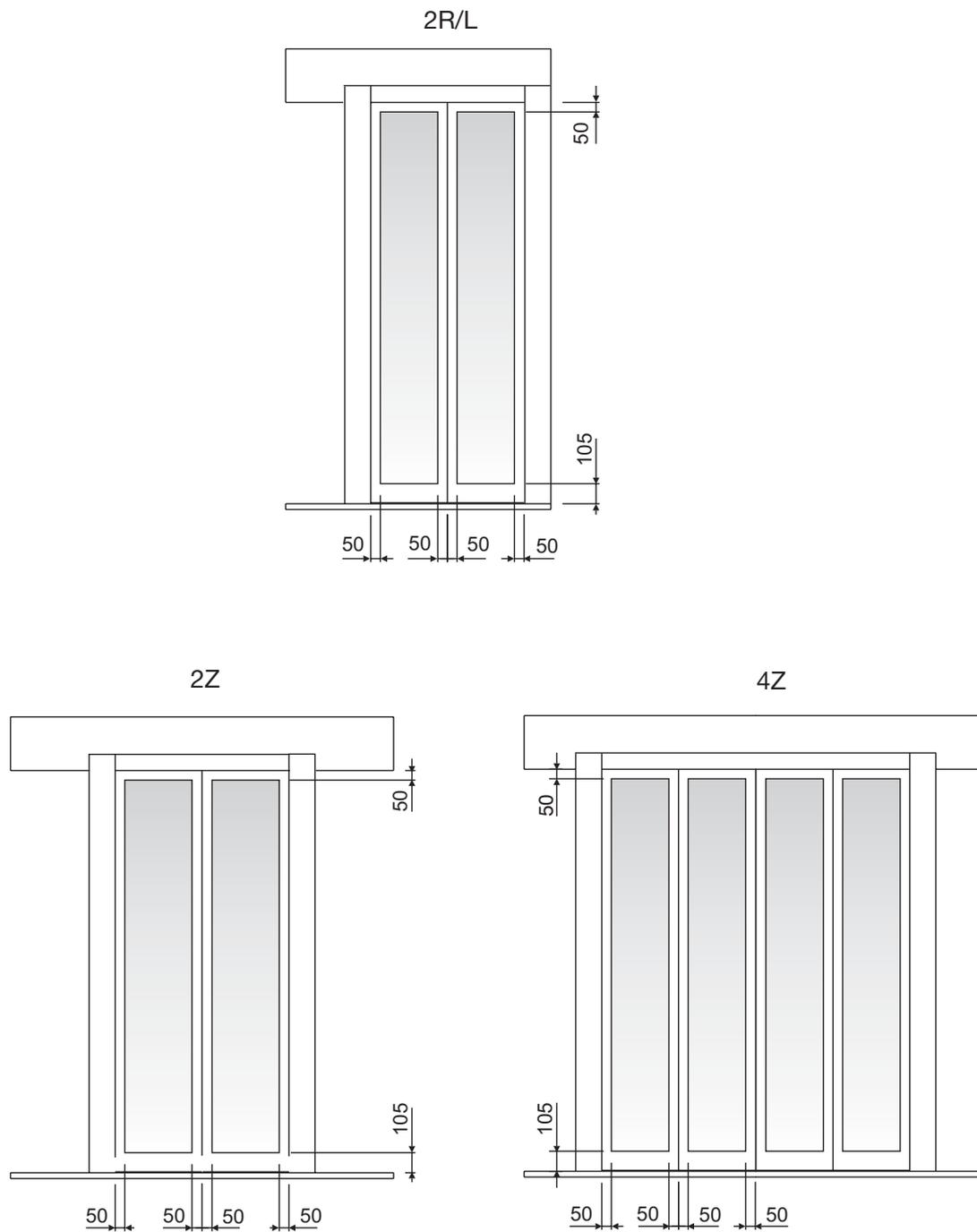
### 4Z BASIC FRAME LAYOUT: FRONT, SIDE VIEWS AND COUPLING



#### NOTES

- Basic frame (optional)
- Sill to sill distance 25 mm
- Setting distance:  $\pm 30$  mm with adjustable brackets
- Finished floor level from 50 to 250 mm
- For further information see our technical catalogues

## STANDARD DIMENSIONS FOR FRAMED GLASS PANELS



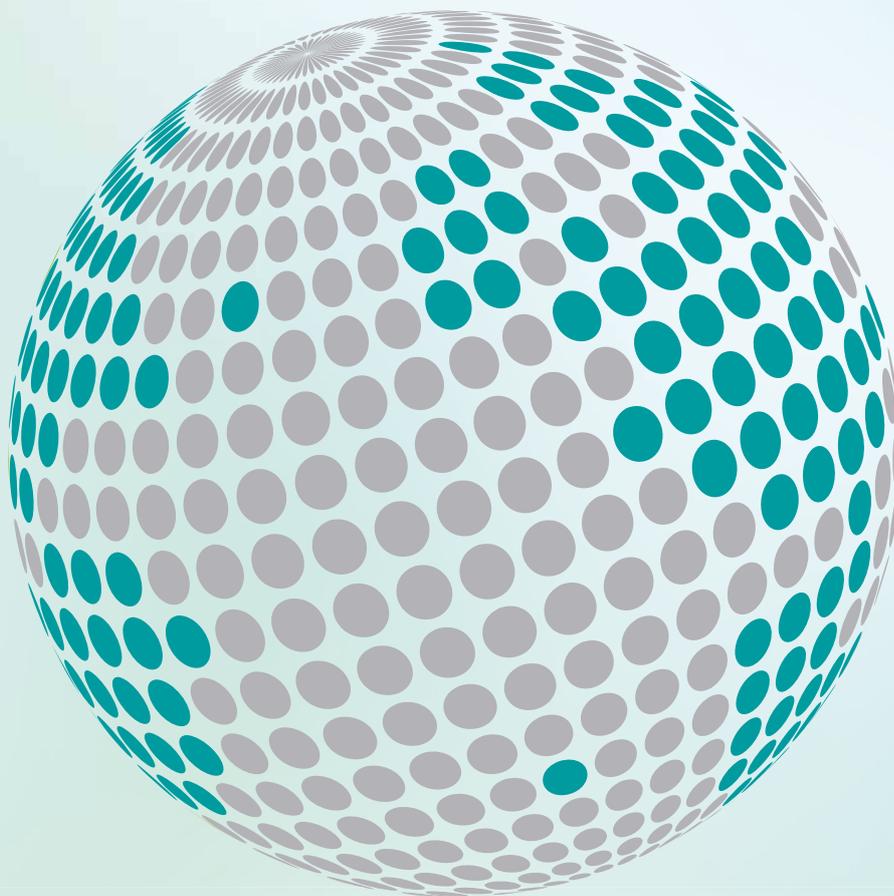
## NOTES

- EN 81-58 and BS476 glass panels available too.
- For further information see our technical catalogues





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MODULES AND SYSTEMS IN THE ELEVATOR INDUSTRY**



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