

Detailed product information. TWIN.

Version: March 2019.



Content.

| | |
|---|----|
| Product overview. | 3 |
| Range of application. | 3 |
| Main technical specifications (TH ≤ 150 m). | 3 |
| Planning information. | 4 |
| Shaft layout. | 5 |
| Principal dimensions. | 5 |
| Planning data 4.0/ 2.5 m/s (1 MR). | 6 |
| Shaft dimensions. | 6 |
| Shaft vertical section. | 7 |
| Machine room. | 8 |
| Planning data 6.0/ 4.0 m/s (2 MRs). | 9 |
| Shaft dimensions. | 9 |
| Shaft vertical section. | 10 |
| Machine rooms. | 11 |
| Electrical data. | 12 |
| Performance range. | 13 |

Product overview.

Range of application.

- Main area of application: commercial/ public buildings of medium to great height (50 to 250 m)
- For new installations and complete modification during modernisations
- Buildings with limited cross section area, lack of shafts, conversion of existing shafts or changed use
- High/ strongly varying traffic volume, high floor-to-floor travel, where high and flexible handling capacity is required
- Ideal for buildings with two access levels and zones (low-rise/ high-rise groups), buildings with different heights between floors
- Solution for intelligent traffic management (destination selector controller) and for the design of flexible building traffic control concepts
- Ideal for combination with conventional elevator or double-decker
- Energy efficiency class A. Also with a significantly lower energy balance based on real daily requirements than in the case of double-decker installations
- Elevator car design: wide range of design options, optional individual equipment up to and including panorama glass elevator car

Main technical specifications (TH ≤ 150 m).

| TWIN | | |
|--|---|-----------------------|
| Performance characteristic | 1 MR | 2 MRs |
| Elevator cars in one shaft | 2 independent individual cars | |
| Rated load Q (per elevator car) ¹⁾ kg | 1250/ 1350/ 1600/ 1800 | |
| Speed v ¹⁾ | | |
| Upper/ lower elevator car | m/s 4.0/ 2.5 | 6.0/ 4.0 |
| Max. travel height (TH) ¹⁾ | m 100 | 150 |
| Number of machine rooms ²⁾ | 1 | 2 one above the other |
| Drive | Gearless, frequency-controlled (V3F) | |
| Door type | C2 | C2 |
| Control system | TCM-MC1 with destination selector control DSC | |
| Standard of the installation | EN 81-20/50 | EN 81-20/50 |
| Other available standards (partially optional) | EN 81-21, EN 81-28, EN 81-58, EN 81-70, EN 81-77 Cat. 0-1 | |

● Standard, ○ Optional, – Not available.
 MR – machine room, C2 – double-panel central-open sliding door. ¹⁾ Deviating/ high values for rated load, speed and travel height on request. ²⁾ In the case of higher performance requirements, 3 machine rooms located one above the other can be required.



TWIN with 1 machine room, shown with special options

Planning information.

The planning information shown here has been compiled with the utmost care for your planning safety. However, not all aspects and influences can be addressed, which may result from various requirements and specific conditions of your project. So that the TWIN system can attain its full potential, we kindly request that you establish contact with our experienced planning experts at an early stage.

- The system is ideal if the building has two access levels, as the elevator cars can be loaded simultaneously and independently of one another in this case. If that is not possible, the lower elevator car can move to a lower give-way landing. The upper elevator car can then move to the lowest access landing. The pit depth is enlarged accordingly. In the area of the shaft headroom, an upper give-way landing can also be set up. Details are available on request.
- We recommend combining the TWIN system with at least one single elevator (for example of the type evolution, uniq or sonic), which can move consistently from the lowest to the top landing on all floors.
- Alongside the car dimensions shown in this documentation, TWIN can also be implemented with deviating dimensions, for example the dimensions in line with the ISO series of standards. On request, we will be glad to provide the corresponding planning information.
- Detailed planning information on the installation of the landing doors can be found in the corresponding documentation for our door series.

This documentation always depicts one group of elevators with two TWIN systems and thus a total of four elevator cars. TWIN can also be used in a group with several conventional elevators or other TWIN systems.

If required, passageways can also be provided in the shaft wall over the shaft height in the lower, middle and upper area. These passageways can remove or prevent air pressure differences and wind noises with the fast elevator cars in the shafts. Dimensions and versions are constructed in accordance with the cross-section ratios of the elevator car to the shaft and the speeds of the elevators.

During the planning phase, please consider all applicable regulations stipulated by the relevant notified body and all applicable national regulations. Our sales consultants would be glad to provide information or explanations on these issues.

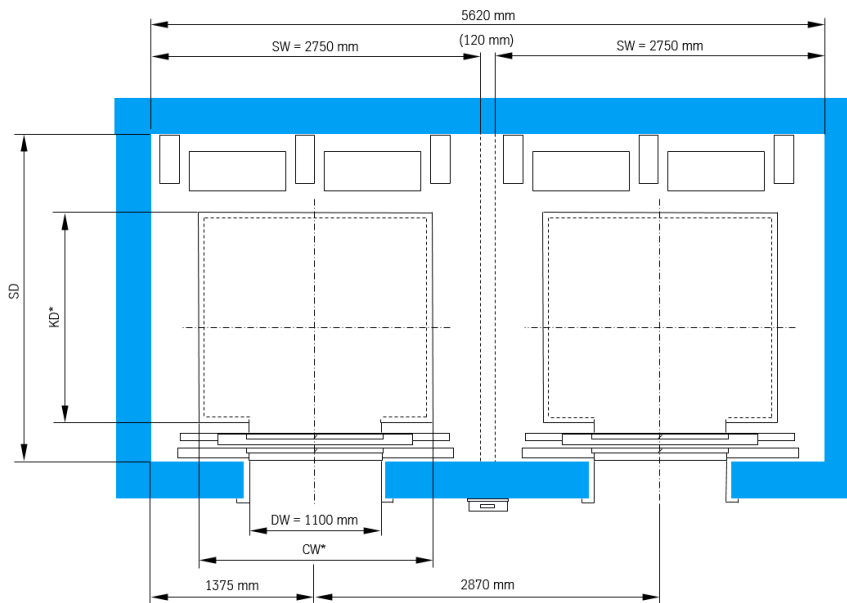


TWIN elevator cars in the shaft headroom with machine room



TWIN elevator cars with minimum safety clearance, with special options

Shaft layout.



The shaft layout is shown as a group of 2 for the standard dimensions of the TWIN system with rated loads of Q = 1250 to 1800 kg.

On request, TWIN can also be designed in other arrangements, with deviating car dimensions and with other shaft dimensions, for example in accordance with the ISO standard.

* The clearance car width and clearance car depth can be reduced if additional design surfaces are attached.

Principal dimensions.

With centre-opening door (C2) – standard dimensions

| Rated load Q per elevator car ¹⁾ | kg | 1250 | 1350 | 1600 | 1800 |
|---|----|------------------|------------------|------------------|------------------|
| Car dimensions | | | | | |
| Car width CW x car depth CD | mm | 1900 x 1450 | 1950 x 1500 | 1950 x 1750 | 1950 x 1900 |
| Car height CH ^{2) 3)} | mm | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) |
| Door width DW | mm | 1100 | 1100 | 1100 | 1100 |
| Door height DH ⁴⁾ | mm | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) |
| Number of passengers | | 16 | 18 | 21 | 24 |
| 1 entrance/ dual entrance | | ●/ – | ●/ – | ●/ – | ●/ – |
| Shaft dimensions | | | | | |
| Shaft width SW ^{3) 5)} | mm | 2750 | 2750 | 2750 | 2750 |
| Shaft depth SD ^{3) 5)} at 4.0/ 2.5 m/s ⁶⁾ | mm | 2420 | 2470 | 2720 | 2870 |
| Shaft depth SD ^{3) 5)} at 6.0/ 4.0 m/s ⁷⁾ | mm | 2470 | 2520 | 2770 | 2920 |

● Standard, ○ Optional, – Not available, MR – machine room.

¹⁾ Greater rated loads with Q > 1800 kg per elevator car on request. ²⁾ The base car height without suspended lighting ceiling is CH = 2600 mm and can be selected optionally between CH = 2200 and 3000 mm. This also changes the minimum height between floors and der minimum floor-to-floor safety clearance accordingly. The car height (CH) must be at least 200 mm higher than the door height (DH). ³⁾ Additional equipment on the car roof or under the car floor enlarges the dimensions. ⁴⁾ The door height is DH = 2400 mm and a choice can be made between DH = 2000 to 2500 mm. ⁵⁾ In the case of the version in accordance with EN 81-77, the shaft dimensions can deviate; details for your planning are available on request. ⁶⁾ 1 Machine room with upper/ lower car speed = 4.0/ 2.5 m/s. ⁷⁾ 2 Machine rooms one above the other with upper/ lower car speed = 6.0/ 4.0 m/s.

Planning data 4.0/ 2.5 m/s (1 MR).



Shaft dimensions.

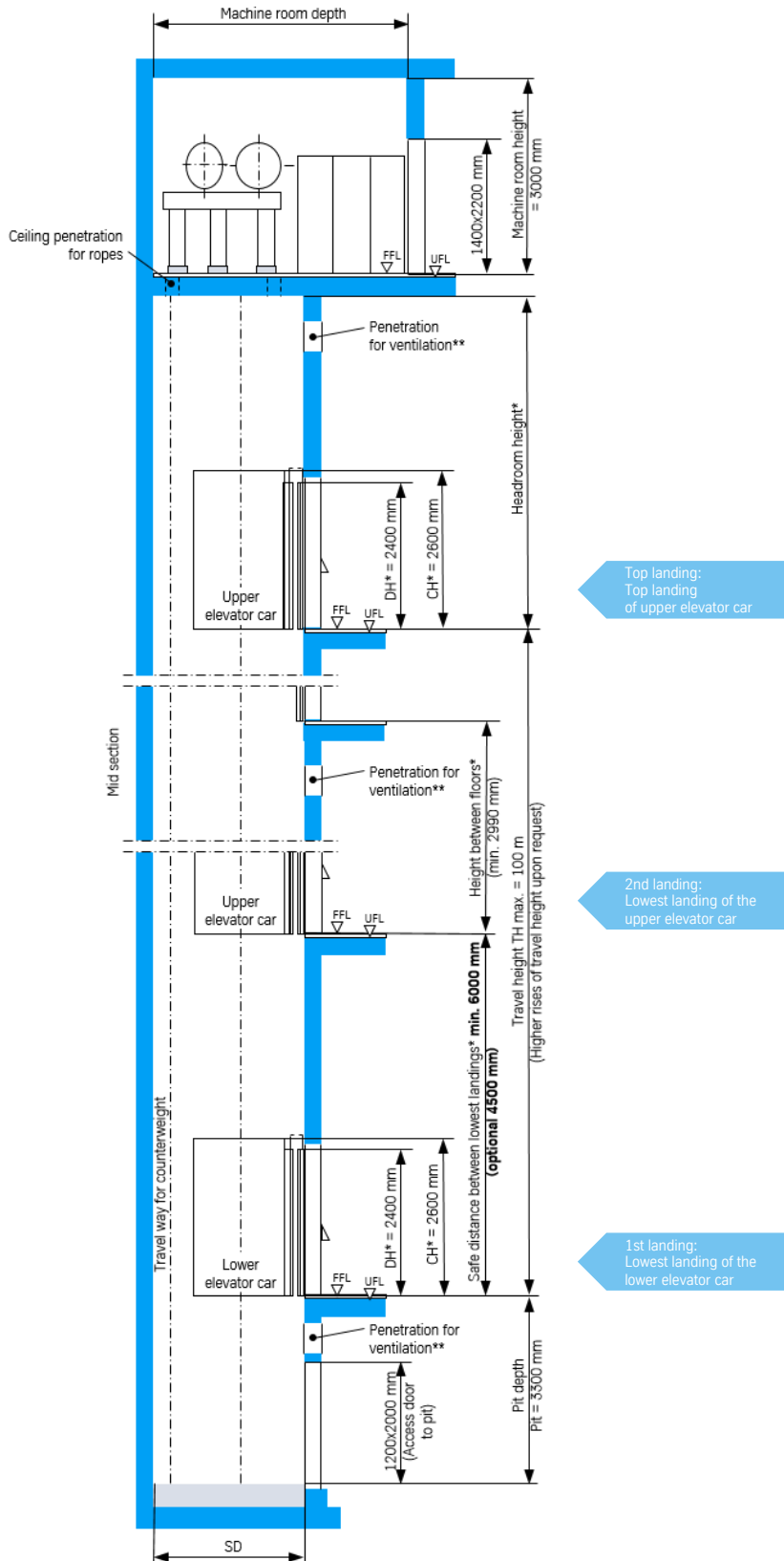
With centre-opening door (C2) – standard dimensions

| Rated load Q per elevator car ¹⁾ | kg | 1250 | 1350 | 1600 | 1800 |
|--|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| System | | | | | |
| Speed v upper/ lower elevator car ²⁾ | m/s | 4.0/ 2.5 | 4.0/ 2.5 | 4.0/ 2.5 | 4.0/ 2.5 |
| Rope suspension, upper/ lower elevator car | | 2:1/ 2:1 | 2:1/ 2:1 | 2:1/ 2:1 | 2:1/ 2:1 |
| Maximum travel height TH | m | 100 | 100 | 100 | 100 |
| Car dimensions | | | | | |
| Car width CW x car depth CD | mm | 1900 x 1450 | 1950 x 1500 | 1950 x 1750 | 1950 x 1900 |
| Car height CH ^{3) 4)} | mm | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) |
| Door width DW | mm | 1100 | 1100 | 1100 | 1100 |
| Door height DH ⁵⁾ | mm | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) |
| Number of passengers | | 16 | 18 | 21 | 24 |
| 1 entrance/ dual entrance | | ●/ – | ●/ – | ●/ – | ●/ – |
| Shaft dimensions | | | | | |
| Shaft width SW ^{4) 6)} | mm | 2750 | 2750 | 2750 | 2750 |
| Shaft depth SD ^{4) 6)} | mm | 2420 | 2470 | 2720 | 2870 |
| Shaft height dimensions | | | | | |
| Shaft headroom height ⁴⁾ | mm | 5900 (CH+3300) | 5900 (CH+3300) | 5700 (CH+3100) | 5700 (CH+3100) |
| Pit depth ^{4) 7)} | mm | 3300 (BS+3275) | 3300 (BS+3275) | 3300 (BS+3275) | 3300 (BS+3275) |
| Min. height between floors (DH+590) ^{4) 8)} | mm | 2990 (depending on DH) | 2990 (depending on DH) | 2990 (depending on DH) | 2990 (depending on DH) |
| Minimum floor-to-floor safety clearance in the standard ^{4) 9)} | mm | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) |
| reduced between both top landings, (optional) ^{4) 10)} | mm | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) |
| reduced between both lowest landings, (optional) ^{4) 11)} | mm | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) |

● Standard, ○ Optional, – Not available, MR – machine room, DH – door height, CH – car height, BS – flooring material thickness.

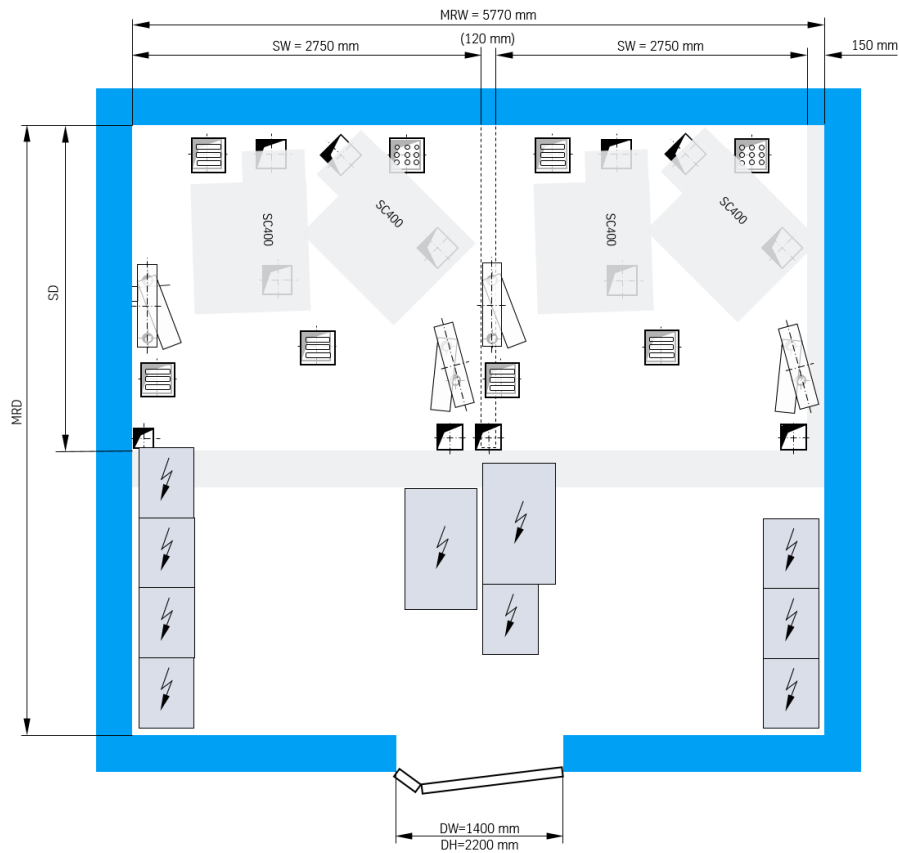
¹⁾ Greater rated loads with Q > 1800 kg per elevator car on request. ²⁾ Higher speeds up to v = 7.0 m/s upon request. ³⁾ The base car height without suspended lighting ceiling is CH = 2600 mm and can be selected optionally between CH = 2200 and 3000 mm. This also changes the minimum height between floors and der minimum floor-to-floor safety clearance accordingly. The car height (CH) must be at least 200 mm higher than the door height (DH). ⁴⁾ Additional equipment on the car roof or under the car floor enlarges the dimensions. ⁵⁾ The door height is DH = 2400 mm and a choice can be made between DH = 2000 to 2500 mm. ⁶⁾ In the case of the version in accordance with EN 81-77, the shaft dimensions can deviate; details for your planning are available on request. ⁷⁾ With a flooring material thickness (BS) in the elevator car of 25 mm (5 to 40 mm possible). ⁸⁾ Reduced landing distance available on request. ⁹⁾ Height between floors between the two lowest landings in the standard: min. = car height CH + flooring material thickness BS + 3375 mm (table value for BS = 25 mm). ¹⁰⁾ Height between floors between the two top landings in the reduced version (optional): min. = car height CH + flooring material thickness BS + 2375 mm (table value for BS = 25 mm). ¹¹⁾ Height between floors between the two lowest landings in the reduced version (optional): min. = car height CH + flooring material thickness BS + 1875 mm (table value for BS = 25 mm).
Shaft tolerance: ± 25 mm.

Shaft vertical section.



* The shaft vertical section is shown for a car height of CH = 2600 mm and a door height of DH = 2400 mm. The car height can deviate from this with CH = 2200 to 3000 mm and a door height with DH = 2000 to 2500 mm can be selected. Important shaft height dimensions such as the minimum safe distance between floors and the shaft headroom height change accordingly. Details, see "Planning data" on page 6. FFL – upper edge of finished floor UFL – upper edge of unfinished floor. ** Openings for pressure equalisation corresponding to our specifications.

Machine room.



The precise location of the components in the machine room, the ceiling openings and rope fixing points varies depending on the rated load. The precise dimensions can be taken from the project planning drawings which are available on request.

With centre-opening door (C2) – standard dimensions

| Rated load Q per elevator car | kg | 1250 | 1350 | 1600 | 1800 |
|--------------------------------|----|------|------|------|------|
| Shaft dimensions | | | | | |
| Shaft width SW | mm | 2750 | 2750 | 2750 | 2750 |
| Shaft depth SD | mm | 2420 | 2470 | 2720 | 2870 |
| Machine room dimensions | | | | | |
| Machine room width MRW | mm | 5770 | 5770 | 5770 | 5770 |
| Machine room depth MRD | mm | 4750 | 4750 | 5100 | 5250 |
| Machine room height MRH | mm | 3000 | 3000 | 3000 | 3000 |

Planning data 6.0/ 4.0 m/s (2 MRs).



Shaft dimensions.

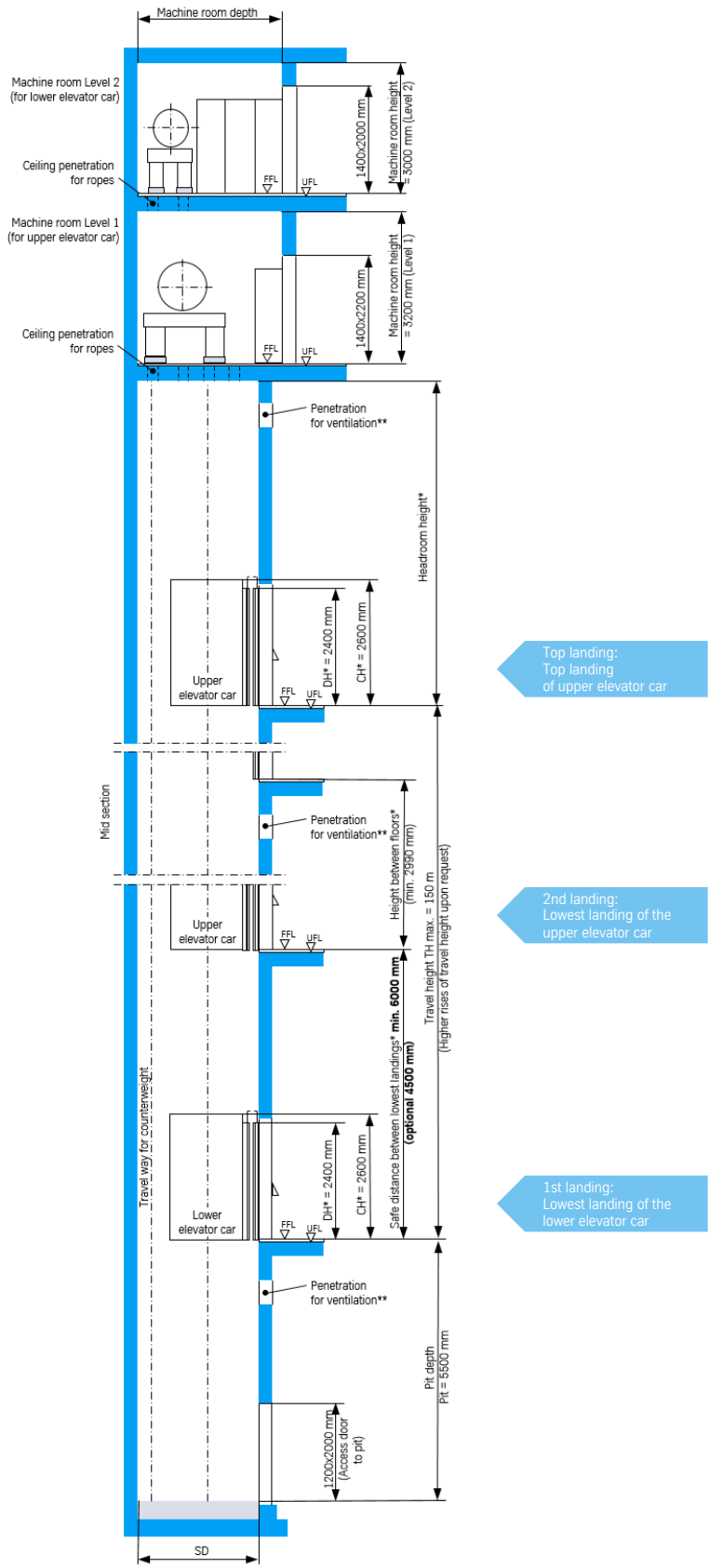
With centre-opening door (C2) – standard dimensions

| Rated load Q per elevator car ¹⁾ | kg | 1250 | 1350 | 1600 | 1800 |
|--|-----|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
| System | | | | | |
| Speed v upper/ lower elevator car ²⁾ | m/s | 6.0/ 4.0 | 6.0/ 4.0 | 6.0/ 4.0 | 6.0/ 4.0 |
| Rope suspension, upper/ lower elevator car | | 1:1/ 2:1 | 1:1/ 2:1 | 1:1/ 2:1 | 1:1/ 2:1 |
| Maximum travel height TH | m | 150 | 150 | 150 | 150 |
| Car dimensions | | | | | |
| Car width CW x car depth CD | mm | 1900 x 1450 | 1950 x 1500 | 1950 x 1750 | 1950 x 1900 |
| Car height CH ^{3) 4)} | mm | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) | 2600 (2200-3000) |
| Door width DW | mm | 1100 | 1100 | 1100 | 1100 |
| Door height DH ⁵⁾ | mm | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) | 2400 (2000-2500) |
| Number of passengers | | 16 | 18 | 21 | 24 |
| 1 entrance/ dual entrance | | ●/ – | ●/ – | ●/ – | ●/ – |
| Shaft dimensions | | | | | |
| Shaft width SW ^{4) 6)} | mm | 2750 | 2750 | 2750 | 2750 |
| Shaft depth SD ^{4) 6)} | mm | 2470 | 2520 | 2770 | 2920 |
| Shaft height dimensions | | | | | |
| Shaft headroom height ⁴⁾ | mm | 6400 (CH+3800) | 6400 (CH+3800) | 6400 (CH+3800) | 6400 (CH+3800) |
| Pit depth ^{4) 7)} | mm | 5500 (BS+5475) | 5500 (BS+5475) | 5500 (BS+5475) | 5500 (BS+5475) |
| Min. height between floors (DH+590) ^{4) 8)} | mm | 2990 (depending on DH) | 2990 (depending on DH) | 2990 (depending on DH) | 2990 (depending on DH) |
| Minimum floor-to-floor safety clearance in the standard ^{4) 9)} | mm | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) | 6000 (depending on CH & BS) |
| reduced between both top landings, (optional) ^{4) 10)} | mm | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) | 5000 (depending on CH & BS) |
| reduced between both lowest landings, (optional) ^{4) 11)} | mm | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) | 4500 (depending on CH & BS) |

● Standard, ○ Optional, – Not available, MR – machine room, DH – door height, CH – car height, BS – flooring material thickness.

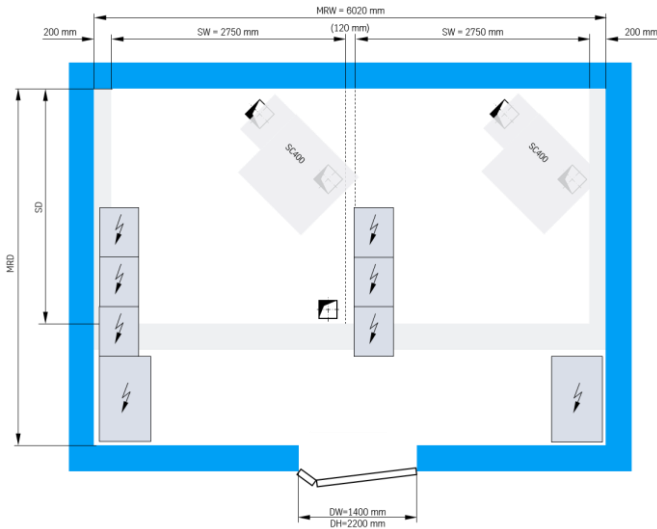
¹⁾ Greater rated loads with Q > 1800 kg per elevator car on request. ²⁾ Higher speeds up to v = 7.0 m/s upon request. ³⁾ The base car height without suspended lighting ceiling is CH = 2600 mm and can be selected optionally between CH = 2200 and 3000 mm. This also changes the minimum height between floors and der minimum floor-to-floor safety clearance accordingly. The car height (CH) must be at least 200 mm higher than the door height (DH). ⁴⁾ Additional equipment on the car roof or under the car floor enlarges the dimensions. ⁵⁾ The door height is DH = 2400 mm and a choice can be made between DH = 2000 to 2500 mm. ⁶⁾ In the case of the version in accordance with EN 81-77, the shaft dimensions can deviate; details for your planning are available on request. ⁷⁾ With a flooring material thickness (BS) in the elevator car of 25 mm (5 to 40 mm possible). ⁸⁾ Reduced landing distance available on request. ⁹⁾ Height between floors between the two lowest landings in the standard: min. = car height CH + flooring material thickness BS + 3375 mm (table value for BS = 25 mm). ¹⁰⁾ Height between floors between the two top landings in the reduced version (optional): min. = car height CH + flooring material thickness BS + 2375 mm (table value for BS = 25 mm). ¹¹⁾ Height between floors between the two lowest landings in the reduced version (optional): min. = car height CH + flooring material thickness BS + 1875 mm (table value for BS = 25 mm).
Shaft tolerance: ± 40 mm.

Shaft vertical section.



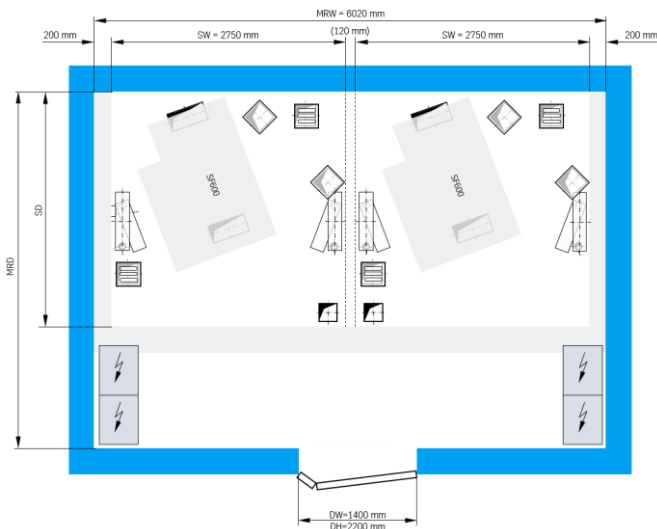
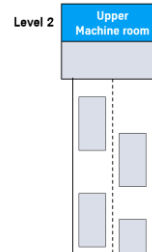
* The shaft vertical section is shown for a car height of CH = 2600 mm and a door height of DH = 2400 mm. The car height can deviate from this with CH = 2200 to 3000 mm and a door height with DH = 2000 to 2500 mm can be selected. Important shaft height dimensions such as the minimum safe distance between floors and the headroom height change accordingly. Details, see "Planning data" on page 9. FFL – upper edge of finished floor UFL – upper edge of unfinished floor. ** Openings for pressure equalisation corresponding to our specifications.

Machine rooms.



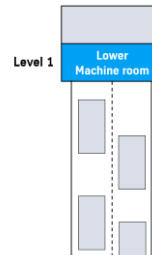
Upper machine room (level 2)

with drive technology for the lower elevator car



Lower machine room (level 1)

with drive technology for the upper elevator car



The precise location of the components in the machine room, the ceiling openings and rope fixing points varies depending on the rated load. The precise dimensions can be taken from the project planning drawings which are available on request.

With centre-opening door (C2) – standard dimensions

| Rated load Q per elevator car | kg | 1250 | 1350 | 1600 | 1800 |
|--|----|------|------|------|------|
| Shaft dimensions | | | | | |
| Shaft width SW | mm | 2750 | 2750 | 2750 | 2750 |
| Shaft depth SD | mm | 2470 | 2520 | 2770 | 2920 |
| Machine room dimensions | | | | | |
| Machine room width MRW | mm | 6020 | 6020 | 6020 | 6020 |
| Machine room depth MRD | mm | 3900 | 3950 | 4200 | 4350 |
| Machine room height MRH 2 (level 2/ upper) | mm | 3000 | 3000 | 3000 | 3000 |
| Machine room height MRH 1 (level 1/ lower) | mm | 3200 | 3200 | 3200 | 3200 |

Electrical data.

TWIN with 4.0/ 2.5 m/s (1 MR)

| Rated load Q per elevator car | | kg | 1250 | 1350 | 1600 | 1800 |
|---|------------------|------|------------------|------------------|------------------|------------------|
| Speed | Upper/ lower car | m/s | 4.0/ 2.5 | 4.0/ 2.5 | 4.0/ 2.5 | 4.0/ 2.5 |
| Synchronous gearless drive | Upper/ lower car | Type | SC400/ SC400 | SC400/ SC400 | SC400/ SC400 | SC400/ SC400 |
| Frequency control (V3F) | Upper/ lower car | Type | CPI100R/ CPI100R | CPI100R/ CPI100R | CPI155R/ CPI100R | CPI155R/ CPI100R |
| Energy recovery | | | ● | ● | ● | ● |
| Maximum number of runs per hour | | s/h | 240 | 240 | 240 | 240 |
| Maximum mains power output ^{1) 2)} | Upper/ lower car | kVA | 36/ 24 | 40/ 25 | 46/ 29 | 50/ 32 |
| Rated mains current ^{1) 2)} | Upper/ lower car | A | 52/ 34 | 58/ 36 | 66/ 42 | 72/ 46 |
| Maximum mains current ^{1) 2)} | Upper/ lower car | A | 138/ 88 | 142/ 91 | 164/ 99 | 172/ 102 |

TWIN with 6.0/ 4.0 m/s (2 MRs)

| Rated load Q per elevator car | | kg | 1250 | 1350 | 1600 | 1800 |
|---|------------------|------|--------------------|--------------------|--------------------|--------------------|
| Speed | Upper/ lower car | m/s | 6.0/ 4.0 | 6.0/ 4.0 | 6.0/ 4.0 | 6.0/ 4.0 |
| Synchronous gearless drive | Upper/ lower car | Type | SF600/ SC400 | SF600/ SC400 | SF600/ SC400 | SF600/ SC400 |
| Frequency control (V3F) | Upper/ lower car | Type | 2xCPI100R/ CPI155R | 2xCPI100R/ CPI155R | 2xCPI100R/ CPI155R | 2xCPI100R/ CPI155R |
| Energy recovery | | | ● | ● | ● | ● |
| Maximum number of runs per hour | | s/h | 240 | 240 | 240 | 240 |
| Maximum mains power output ^{1) 2)} | Upper/ lower car | kVA | 61/ 38 | 62/ 40 | 71/ 46 | 76/ 50 |
| Rated mains current ^{1) 2)} | Upper/ lower car | A | 87/ 54 | 90/ 58 | 103/ 66 | 110/ 73 |
| Maximum mains current ^{1) 2)} | Upper/ lower car | A | 237/ 154 | 244/ 154 | 273/ 182 | 287/ 193 |

● Standard, ○ Optional, – Not available, MR – machine room.

¹⁾ At 400 Volt / 50 Hz. ²⁾ The specified power outputs and currents increase depending on the project as a result of the elevator control systems, the number of landings, the number and versions of touchscreens in the landings, the elevator car lighting and the additional electrical power consumers, for example air conditioning systems and flat screens in the elevator cars etc.

With the above configuration, a minimum acceleration of 1.0 m/s² is achieved. All specifications are based on the standard dimensions of the TWIN system used here. For deviating performance data (e.g. rated load, travel height, speed, heavy car equipment etc.), the corresponding values are available upon request. Furthermore, the total values are reduced by coincidence factors in the case of larger groups. In this regard, please contact our sales department.



Synchronous Gearless SC400

- Compact, gearless drive
- Permanent magnet-excited machine
- Optimal efficiency
- Low sound pressure level
- Dual-circuit safety brake, in accordance with EN 81-20 configured as safety brake



Synchronous Gearless SF600

- Gearless high-performance drive
- Permanent magnet-excited machine
- Optimal efficiency
- Low sound pressure level
- Suitable for multi-inverter operation for an economical drive configuration
- Very high axle loads and braking torques

Performance range.

TWIN

| System | | |
|--|---|------------------------------------|
| 2 elevator cars in 1 shaft | 2 individual cars that run independently in a shared shaft | ● |
| Rated load per elevator car | 1250/ 1350/ 1600/ 1800 kg above 1800 kg | ● on request |
| Number of passengers per elevator car | 16/ 18/ 21/ 24 above 24 | ● on request |
| Speed | 4.0 m/s (upper elevator car)/ 2.5 m/s (lower elevator car) with maximum travel height of up to 100 m 6.0 m/s (upper elevator car)/ 4.0 m/s (lower elevator car) with maximum travel height of up to 150 m up to 7.0 m/s (upper/ lower elevator car) | ● ● on request |
| Maximum travel height | 100 (4.0/ 2.5 m/s)/ 150 m (6.0/ 4.0 m/s) up to 250 m | ● on request |
| Elevator group | 2 TWIN systems (with a total of 4 elevator cars) up to 8 TWIN systems (with a total of 16 elevator cars) | ● ○ |
| Elevator car & design | | |
| Car dimensions (standard dimensions) | Car width x car depth 1900 x 1450 mm/ 1950 x 1500 mm/ 1950 x 1750 mm/ 1950 x 1900 mm Car height 2600 mm/ car height 2200-3000 mm complying with ISO standard, variable | ● ●/ ○ on request |
| Elevator car design | Current thyssenkrupp design lines/ customer-specific wishes (bear in mind the maximum equipment weight) Panorama car | ●/ ○ on request |
| Maximum equipment weight. | With Q 1250 kg → 500 kg. With Q 1350 kg → 550 kg. With Q 1600 kg → 600 kg. With Q 1800 kg → 700 kg. (including floor, walls, ceiling and all accessory parts) | ● |
| Door | Double-panel central-opening sliding door (C2) Door width 1100 mm/ door height 2400 mm/ door height 2000-2500 mm Glass doors/ special fire resistance tests Door height above 2500 mm | ● ●/ ●/ ○ ○/ ○ on request |
| Entrance | One-sided entrance/ dual entrance | ●/ – |
| Evacuation | Via customer-fitted emergency doors in the shaft front wall complying with standards/ via side crossover platform as of CD ≥ 1750 mm | ●/ ○ |
| Planning information | | |
| Machine room | 1 machine room (4.0/ 2.5 m/s)/ 2 machine rooms one above the other (6.0/ 4.0 m/s) | ●/ ● |
| Minimum height between floors (cannot be operated simultane.) | 2990 mm between 2 landings (door height + 590 mm, depending on door height) | ● |
| Minimum height between floors (can be operated simultaneously) | 6000 mm between 2 landings (depending on CH and BS) optionally 5000 mm between both top landings (depending on CH and BS) optionally 4500 mm between both lower landings (depending on CH and BS, not with lower give-way landing) | ● ○ ○ |
| Alternative landing | Below the bottom landing in deepened shaft pit above the top landing in increased shaft headroom | on request on request |
| Control system | | |
| Elevator control system | TCM-MC1 with wide range of functions/ optional functions/ monitoring system | ●/ ○/ ○ |
| Destination selector control DSC | Input terminals with touchscreen, TFT display 5.7" or 10.4" (graphical user interface) or numeric keypad Input terminals outside of the elevator car with wall fastening/ as operating column Floor display and verbal announcement in the elevator car | ● ●/ ○ ● |
| Miscellaneous | | |
| Safety | Each elevator car has the technology of a conventional single elevator (drive, control system, safety technology); an additional 4-stage safety concept ensures that the elevator cars maintain a minimum distance to one another in every operating state, tested by [German] official inspection authority, Safety Integrity Level 3 (SIL 3) complying with IEC EN 61508. | ● |
| Painting of the technology | The components in the shaft and in the machine room are painted different colours for each individual TWIN elevator car, making them unambiguously discernible (colour blindness taken into account) | ● |
| Regulation | Elevator installation in accordance with EN 81-20/50 other regulations: EN 81-21, EN 81-28, EN 81-58, EN 81-70, EN 81-77 Cat. 0-1 | ● on request |

● Standard, ○ Optional, on request, – Not available, Q – rated load, CH – car height, BS – flooring material thickness.

Elevator Technology

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