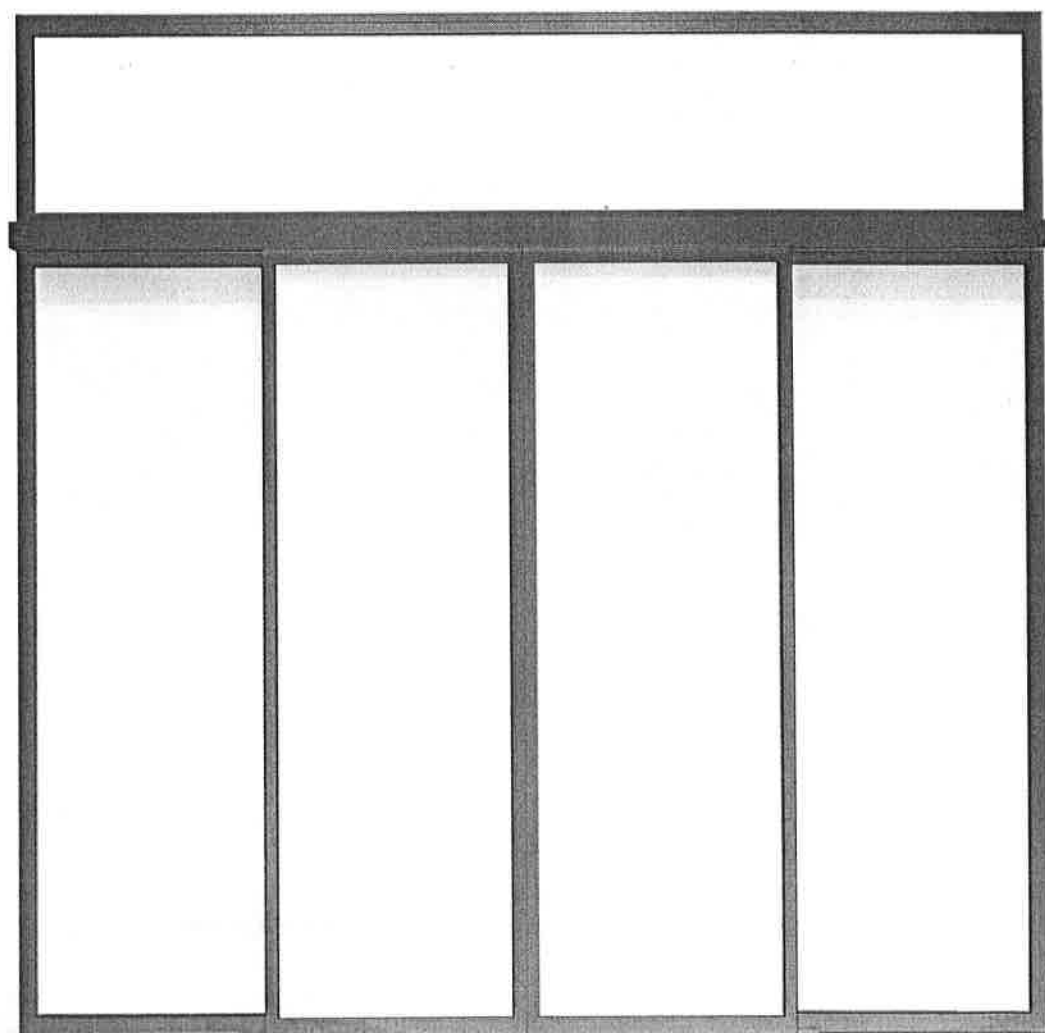
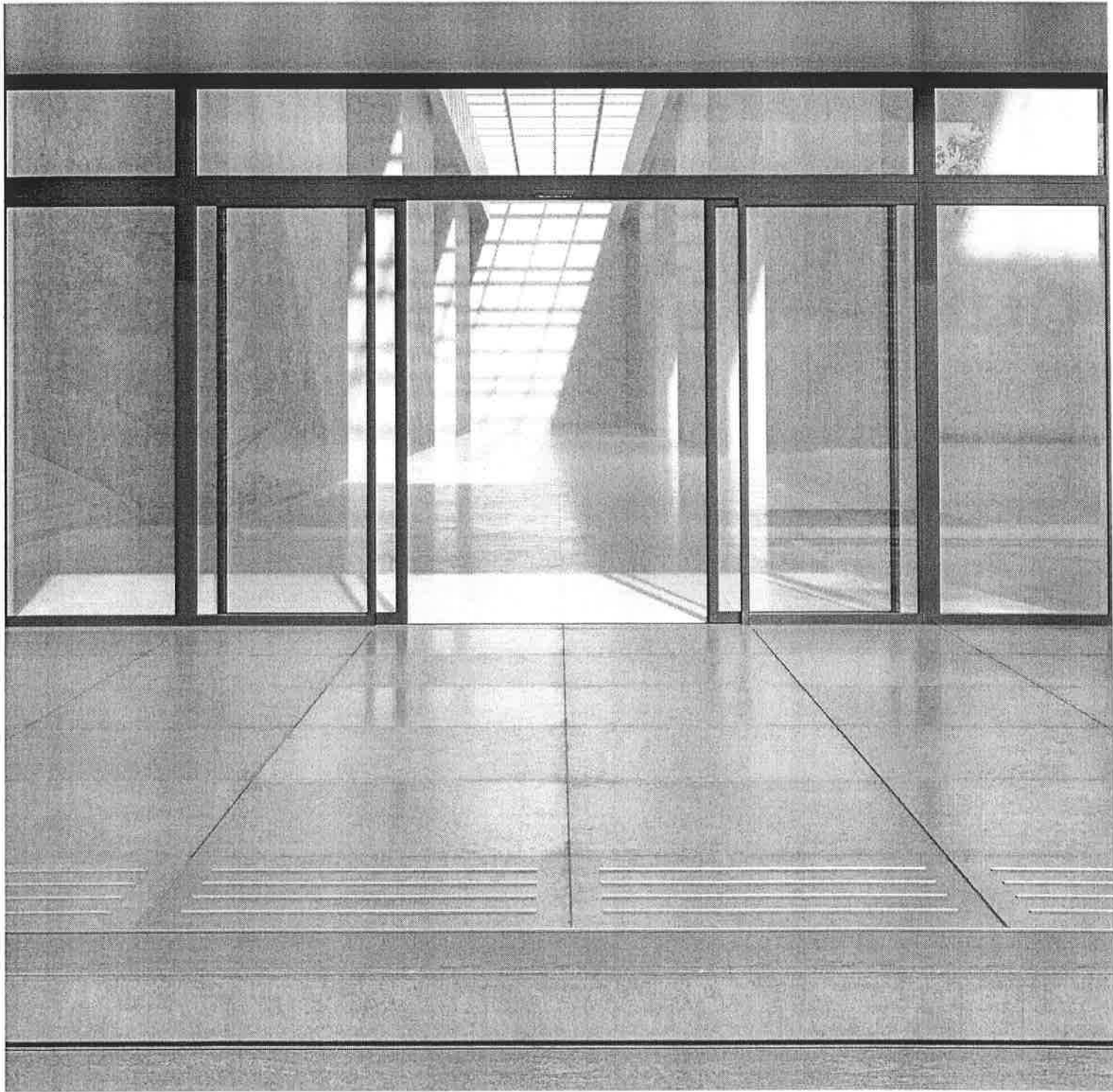


ST PRO Green RC2 / RC3

Energy-saving
automatic sliding door





ST PRO Green

Elegant and sustainable.
Safety first.

With the ST PRO Green automatic sliding door, dormakaba underlines its contribution to increased energy efficiency and sustainability.

The anti-intruder protection, which has been tested and certified by the ift Rosenheim, also takes into account the increasing need for security.

ST PRO Green	
A solution for efficiency and security	5
Profile system	6
System planning	7
ST PRO Green profile system	8
ST PRO Green RC2 / RC3 profile system	10
Casing variants	12
Additions sliding door system	13
Locking devices	14
Manual release	15
Technical data for sliding doors	16
Connections with CAN-bus technology	17
Conventional technology connections	17
Technical data for sliding door operators	18
Master controller functions and optional expansion module functions	20
Door Pilot Interface	21
Wide range of accessories from dormakaba	
Program switches	22
Activation switches	23
Key switch	24
LED touch key	24
Emergency activation buttons	25
Cover frame for buttons and switches	25
Active infrared sensor and combined sensors	26
Accessories for active infrared sensor and combined sensors	27

ST PRO Green

A solution for efficiency and security.

The ST PRO Green combines many functions – and is elegant and attractive thanks to the slim-line profiles. It therefore perfectly matches sliding doors of the dormakaba ST FLEX series.

The slim profile system can be equipped with double and triple glazing, which makes it possible to achieve particularly low U_D values.*



Powerful drive unit

Thanks to the new drive system ES PROLINE, door leaf weights of up to 400 kg can be moved particularly quickly and quietly.

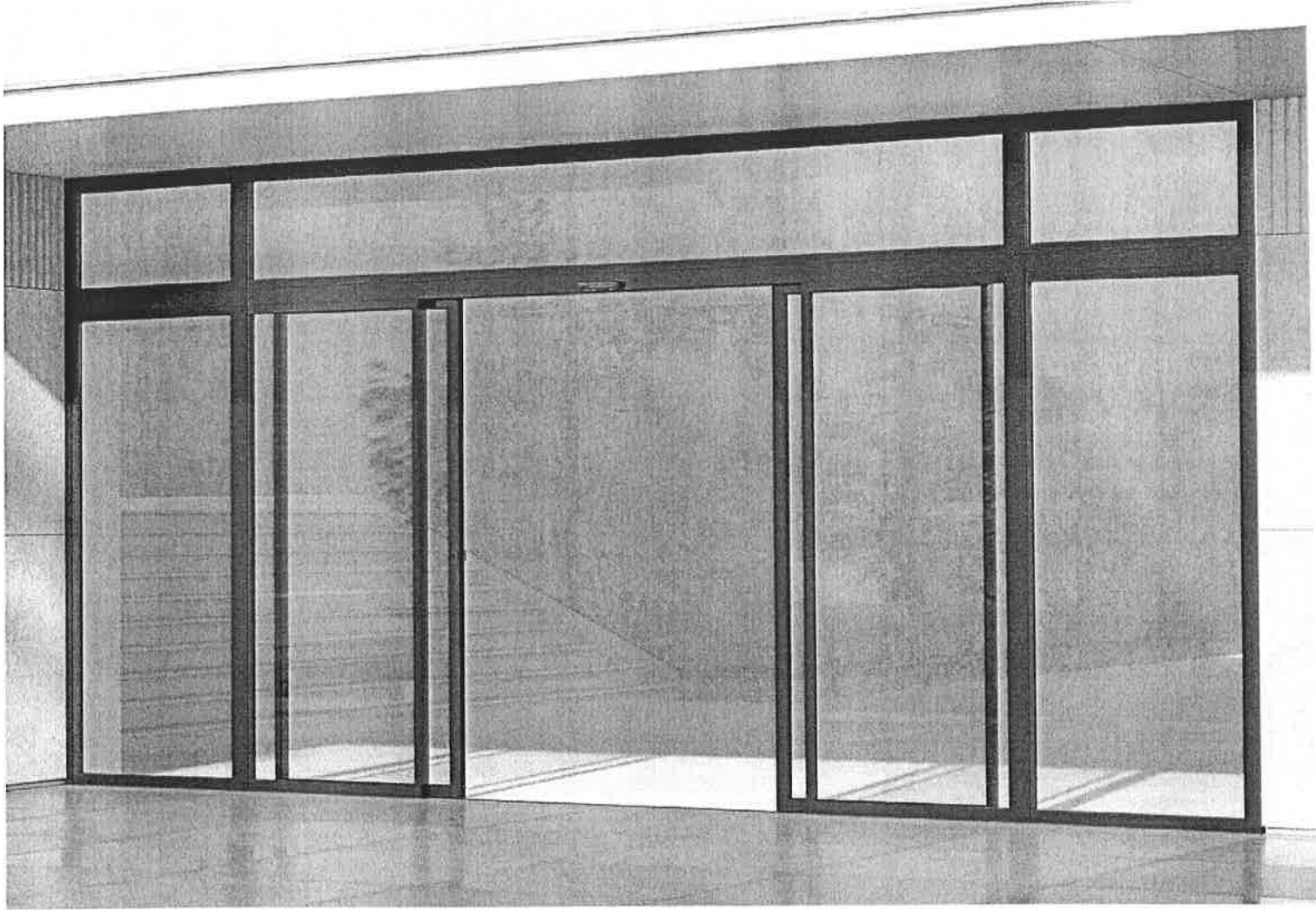
The low energy demand of the sliding door drive also contributes to the positive energy balance of the door. The drive unit is suitable for almost any application area, as well as use in emergency exit doors.

Thermally separated profile

With thermal partition by the profile and the option of using triple glazing, U_D values (heat transfer coefficient) of up to 1.0 are achieved, which corresponds to the current requirements of the EnEV energy-saving regulation*.

The ST PRO Green enables significant savings of perpetual energy and heating costs and the reduction of CO₂ emissions.

* Each ST PRO Green receives individual evidence of the U_D -value



ST PRO Green – comprehensive energy efficiency.

- Thermally isolated profile system
- Ultra-low UD values of up to 1.0 (depending on the glazing used)
- 1-leaf and 2-leaf sliding doors
- For use in escape routes and emergency exits
- Energy-efficient sliding door drive ES PROLINE
- Double and triple glazing
- Minimises any temperature-influenced door deformation by using torsion-resistant struts
- Certified by independent testing institutes

ST PRO Green RC2/RC3 – convincingly secure.

- Reinforced profile system
- RC2 tested and certified by the ift Rosenheim
- Particularly high burglary protection class RC3, tested and certified by PIV Velbert
- A continuous floor guide rail in the door leaf area and tamper protection in the drive unit prevent the door leaves being lifted out
- Additional security by means of a multi-point hook lock in the area of the main closing edge
- Hook on the secondary closing edge
- Burglar-proof glazing (RC2: P4A, RC3: P5A)
- RC3 variant with specially reinforced profiles

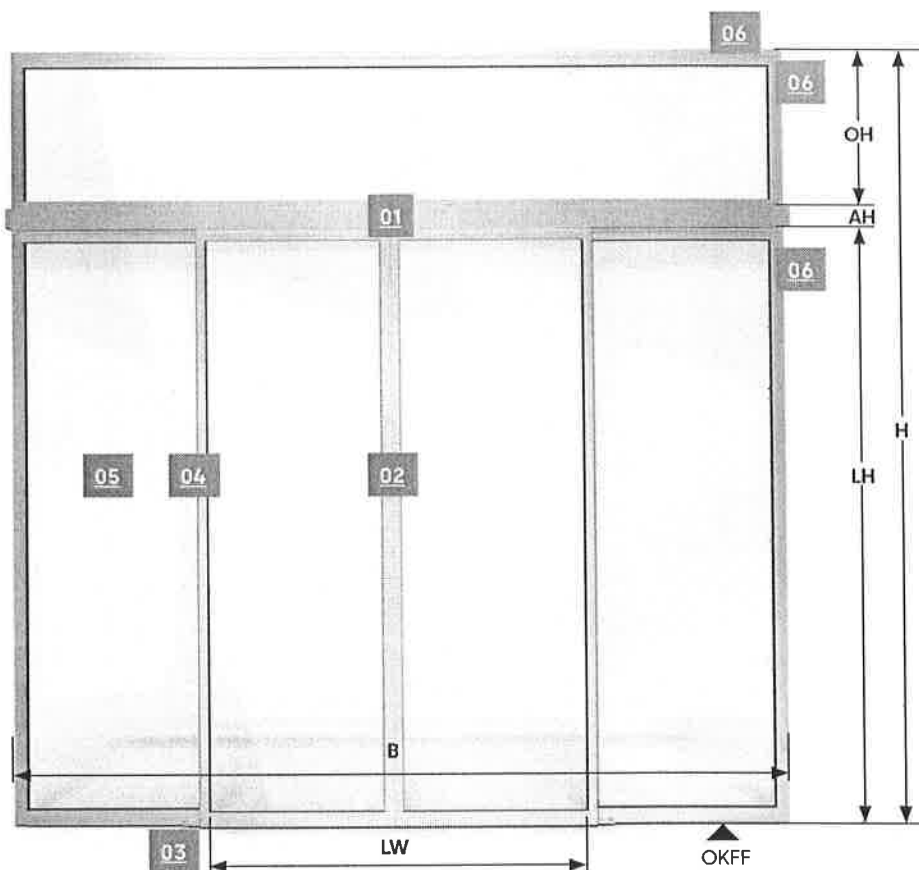


Profile system

Build-up of the ST PRO Green sliding door set

- 01** ES PROLINE sliding door operator, in RC versions with pry-out protection over the entire passage width
- 02** Centre sealing profile, in RC versions with multipoint locking system
- 03** Floor guide, in RC versions with floor guide rail over the entire door width
- 04** Secondary closing edge, in RC versions with hook
- 05** Triple type glazing, in RC versions with break-in-resistant P4A (RC2) and P4A (RC3)
- 06** Structural connection, in RC versions with reinforcing elements

LW: Clearance width
LH: Clearance height
B: Width
OH: Skylight height
H: Total system height
AH: Drive height 100 or 150 mm dependent on version
OKFF: Upper edge of finished floor prefabricated floor



Customised sliding door systems as standard

Each system is individually planned and produced. The modular approach of our systems ensures a cost-efficient realisation. Each system can be easily extended with further automatic and access functions from the dormakaba range but also with third-party manufacturer components.

Freedom of choice of size and design

You are free to choose the dimensions of the sliding door systems. Depending on the sliding door system the selected glazing and the door leaf weight, passageway widths of up to 3,000 mm are possible. The profile surfaces are as standard anodised or powder-coated in custom colours from established powder manufacturers. For special requirements, e.g. in swimming pool construction or near the coast, more resistant coatings are also possible.

Service right from the planning stage

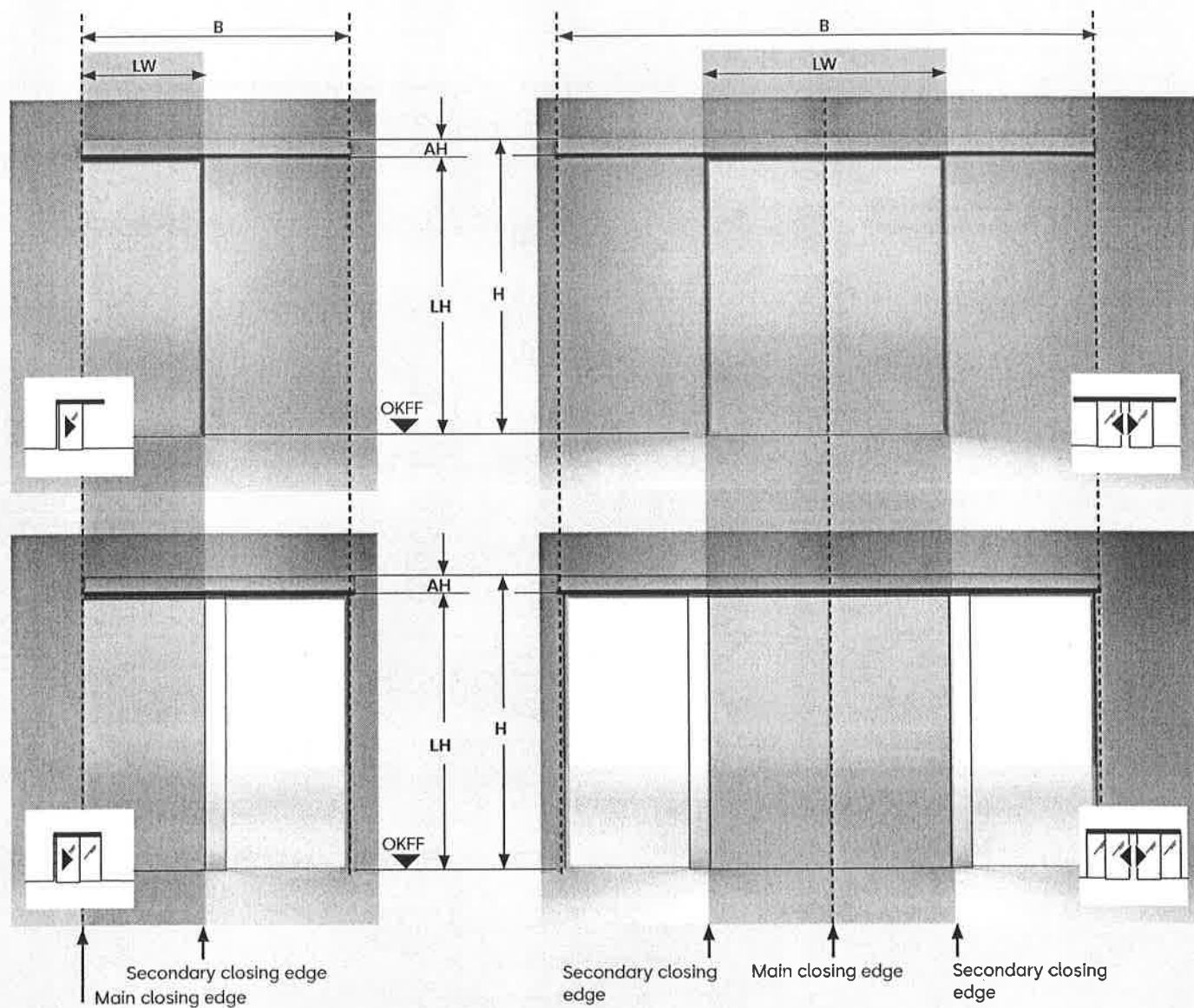
We support every project right from the planning stage. In this, architectural and functional requirements are always the starting point. Each sliding door system is delivered ready for installation. The systems are installed, put into use and serviced by companies certified by us. Extensive documentation in the local language is supplied with each system. For the exact planning details, please refer to our CAD drawing documents. The dormakaba sales department will be happy to advise.

System planning

These dimensions you should know

Opening to one side

Opening to both sides



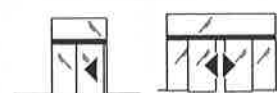
Drive in the suspended ceiling
(integral casing)



Wall or lintel installation of drive



Passageway installation of drive with
light metal beam (LM beam) and
side panels



Passageway installation of drive with light
metal beam (LM beam), side panels and
skylight

- LW: Clearance width
- LH: Clearance height
- B: Width
- OH: Skylight height
- H: Total system height
- AH: Drive height 100 or 150 mm
dependent on version
- OKFF: Upper edge of finished floor
prefabricated floor

ST PRO Green

Thermally separated profile system

Properties

- Complies with the current German Building Energy ACT GEG (formerly EnEV)
- Particularly low U_D values up to 1.0 W/m²K calculated individually for each door system
- Minimised profile face widths
- Above-floor and underfloor routing possible
- Drive height 100 mm or 150 mm
- Certified thermal conductivity values to EN ISO 10077
- Environmental Product Declaration (EPD) included

Glazings

- Double glazing ISO 34 with warm edge
- Triple glazing ISO 50 with warm edge
- Special glazing

Possible additions

- Protective leaf in front of the moving leaf or in the façade
- Georgian bar profile
- Underfloor routing
- Main closing edge with multi-point locking system (see variant RC2/RC3)

Approximate determination of door leaf weight

$$TG = \frac{LH [m] \times LW [m] \times \text{glass weight [kg/m}^2]}{\text{Number of door leaves}} + 7.5 \text{ kg}$$

Common glass weight for triple glazing: 45 kg/m²

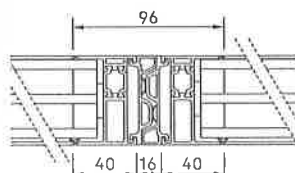
		Version	ST PRO Green
Drive type	Standard		ES 250 PRO/ES 400 PRO
	Escape route 		ES 250 PRO FST/ES 400 PRO FST
Door parameters*			
System width (B) min. =	1-leaf	Passageway installation (without safety clearance)	2 x LW + 153 mm
		Wall mounting	2 x LW + 115 mm
	2-leaf	Passageway installation (without safety clearance)	2 x LW + 180 mm
		Wall mounting	2 x LW + 120 mm
Clearance width LW ²	1-leaf	Standard	700 – 3000 mm
		Escape route 	700 – 3000 mm
	2-leaf	Standard	800 – 3000 mm
		Escape route 	800 – 3000 mm
Max. door leaf weight	1-leaf	ES 250 PRO/ES 250 PRO FST	1 x 125 kg
		ES 400 PRO/ES 400 PRO FST	1 x 250 kg
	2-leaf	ES 250 PRO/ES 250 PRO FST	2 x 125 kg
		ES 400 PRO/ES 400 PRO FST	2 x 200 kg
Clear passage height LH*			2050 – 3100 mm

* The maximum practicable dimensions are subject to the respective door plans and door requirements and also depend on the profile system selected. For doors with tested anti-intruder protection, increased requirements are placed on the structural tolerances as well as the careful design of the structure

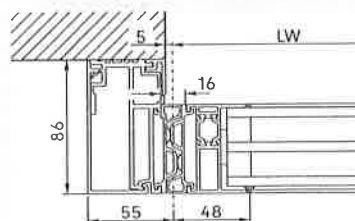
² The minimum clearance width for escape route sliding doors is laid down in the respective regional building codes and may vary in certain circumstances.

Main closing edge variants

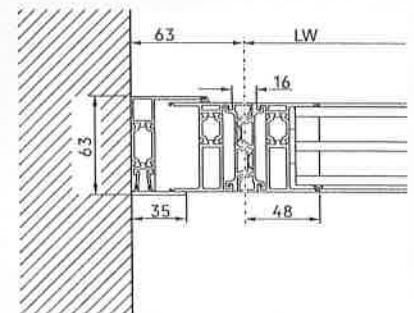
- LW: Clearance width
 LH: Clearance height
 B: Total system width
 OH: Skylight height (option)
 H: Total system height
 AH: Drive height 100 or 150 mm dependent on version
 OKFF: Upper edge of finished floor prefabricated floor



Opening to both sides



Lintel installation, opening to one side



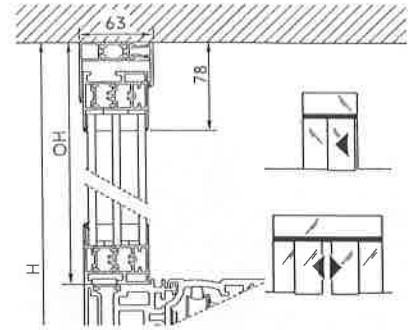
Passageway installation, opening to one side

Installation variations and drive casings

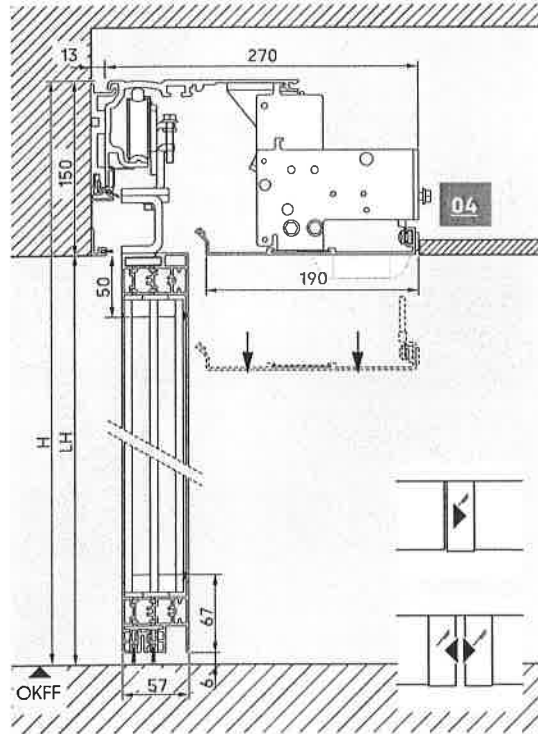
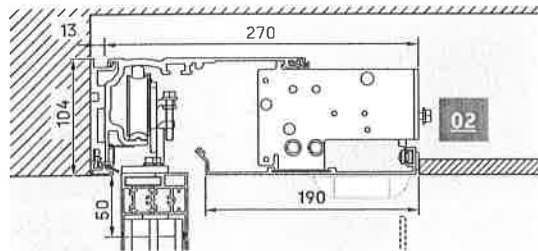
- 01 Sensor casing 100 mm
- 02 Integral casing overall height 100 mm
- 03 Standard casing 100 mm
- 04 Integral casing overall height 150 mm
- 05 Standard casing 150 mm

Note on installation with light metal beam

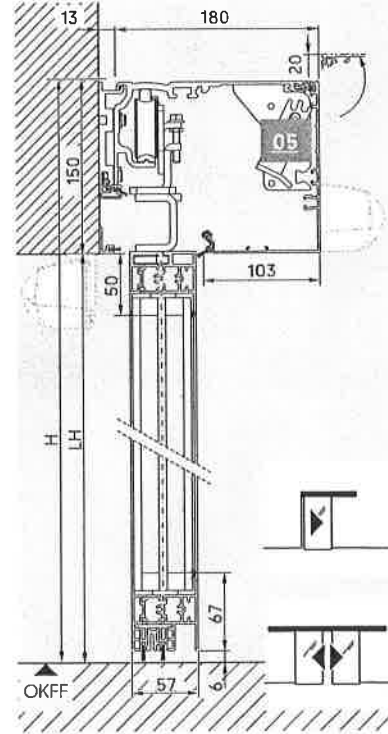
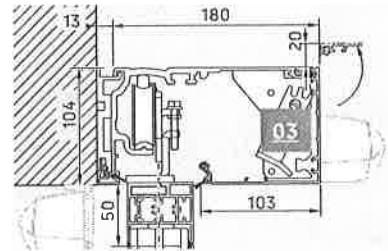
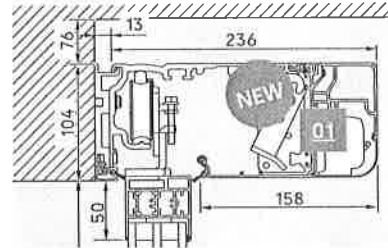
For doors with side panels and light metal beam, the drive must either be suspended or the 150 mm drive type is required for door leaf weights of approx. 125 kg or more – depending on the clearance width.



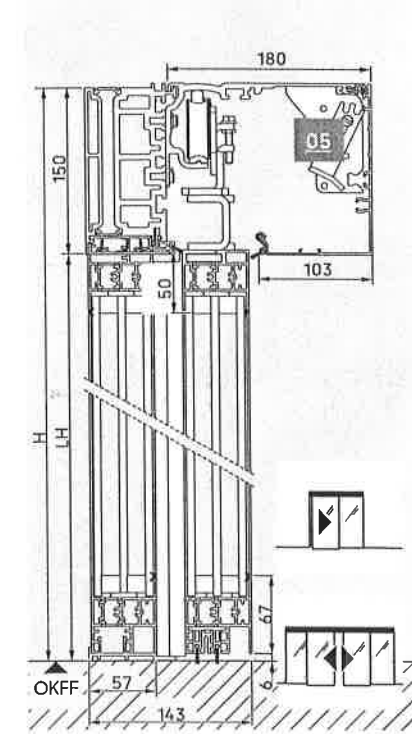
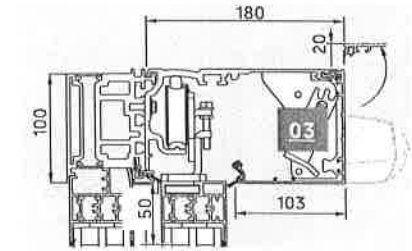
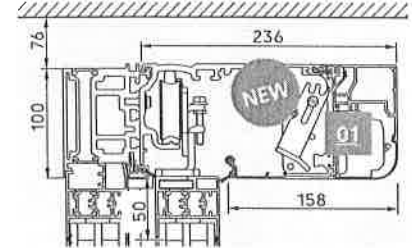
Installation in suspended ceiling



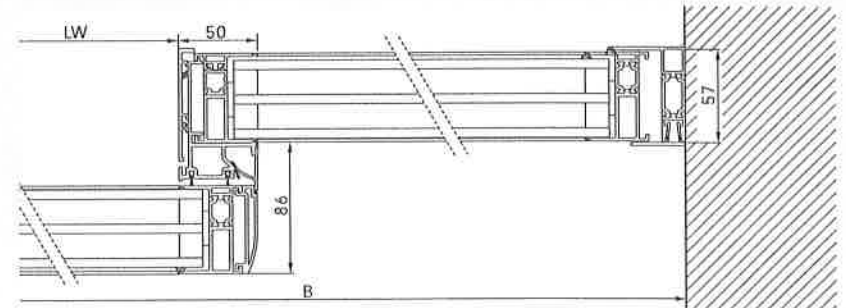
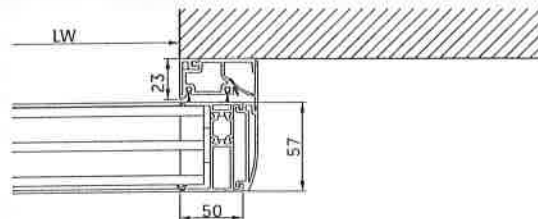
Wall/lintel installation



Installation with light metal beam



Secondary closing edge variants



Lintel installation variant

Variants with side panels