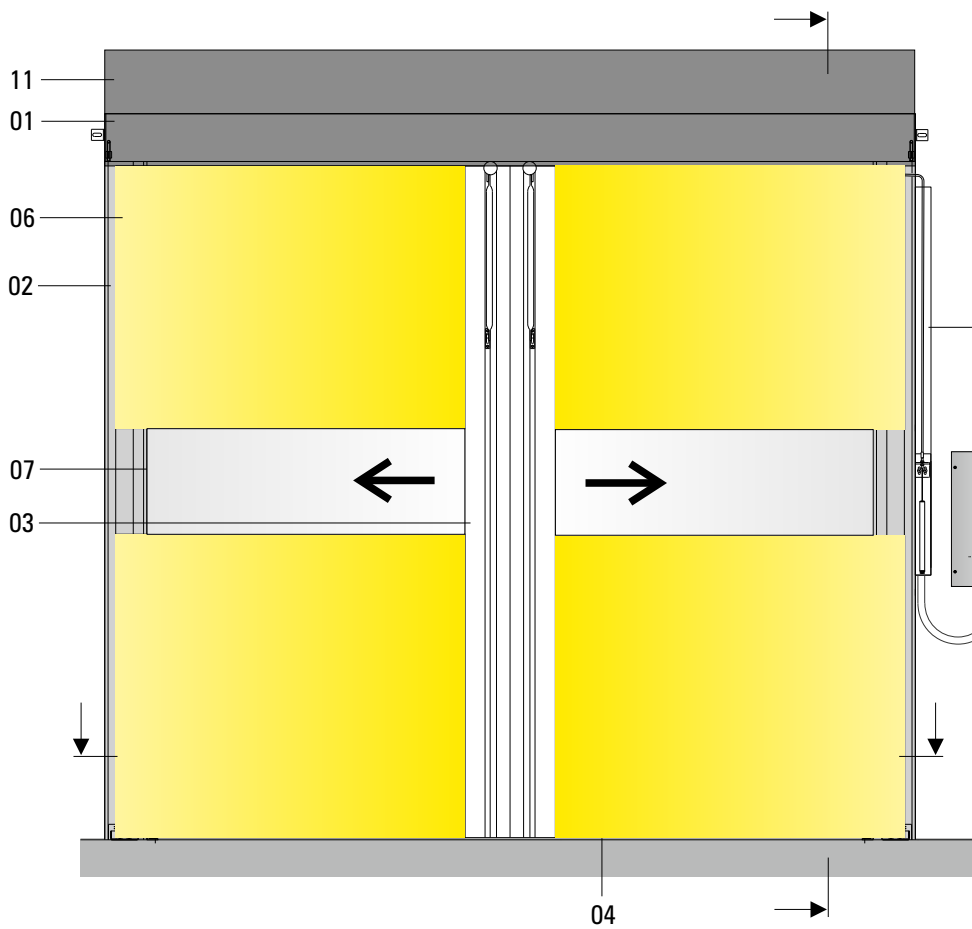


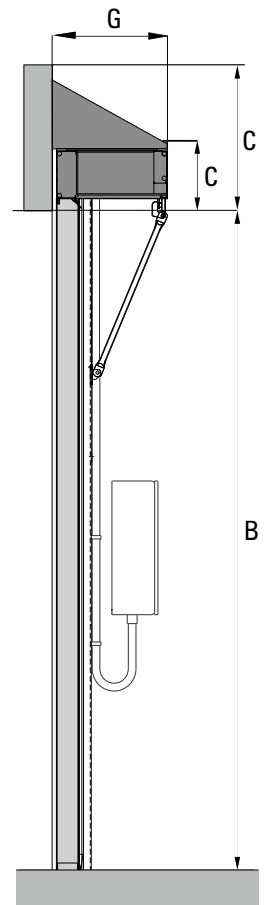
Technical Data

High-Speed Door NOVOSPRINT[®] Syncro Hygiene

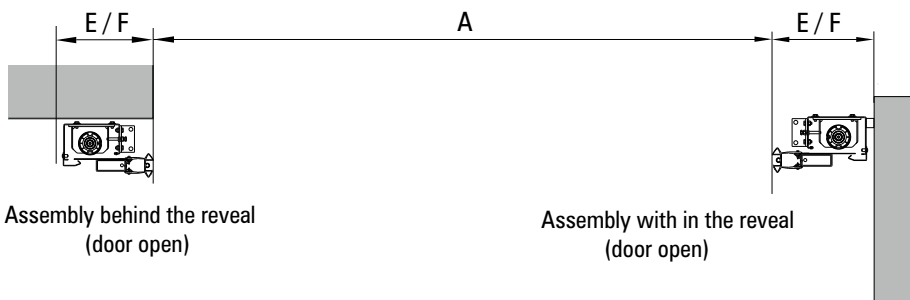
View



Vertical section



Horizontal section



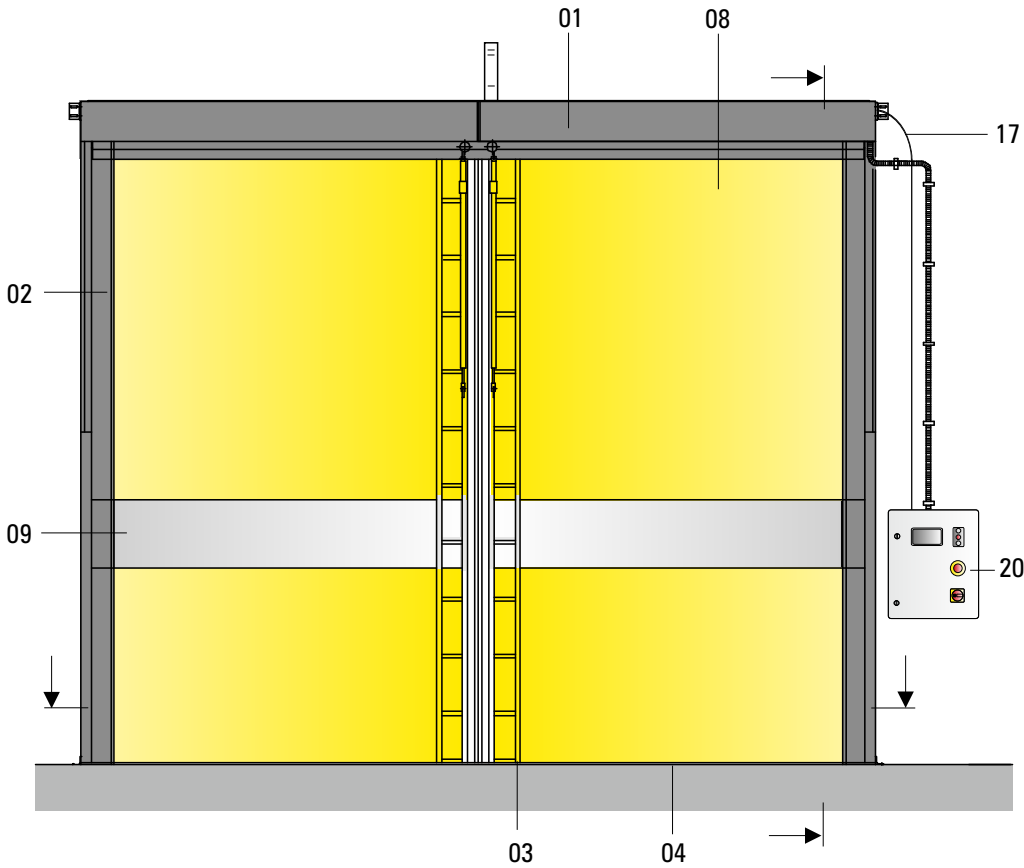
Maß / Pos.	Technical Data NOVOSPRINT® incl. Hygiene Option		Syncro
	Technical state July 2019		single-skinned
	Use*	Interior door / exterior door (only admissible when installed together with an external door)	■ / --
	Opening speed [m/s]*	Standard / optional ultraspeed, up to:	3.5 / 5.0
	Closing speed [m/s]*	Standard, up to:	1.5
	Opening cycles /operating time*	Total number of door cycles annually, typically up to:	350 000
	Cycle: Opening and Closing = two load alternations	Maintenance interval, after max. number of door cycles or intervals respectively	125 000 or respectively 1 year
		No. of cycles, average [1 / hour]	60
		Increased no. of cycles for max. 1 hour [1 / hour]	120
		Increased no. of cycles for max. 15 minutes [1 / min]	6
	Warranty on springs*	Generally for up to Cycles for max. 2 years	500 000
A	Clear opening width [mm]	C/o width min. / max. standard skin (PVC), Values in bracket upon request C/o width min. / max. for skin (PVC), antistatic or foodsafe door skin	1000 / 4500 1000 / 4300
B	Clear opening height [mm]	C/o height min. / max. Values given in brackets upon request	1700 / 4500
C	Space requirement, top (lintel) [mm]*	Head section area standard / incl. optional hood (30°)	330 / 650
D	Space requirement, lateral (non-drive side) [mm]*	Minimum (wall-mounted control system)	--
E	Space requirement, lateral (drive-unit side) [mm]*	Minimum (wall-mounted control system)	350
F	Space requirement, lateral (drive-unit side) [mm]* for integrated ground closure	Minimum (wall-mounted control system)	410
G	Required space, total depth [mm]*	Without additional equipment	420 or 520
	Wind load [km/h] / Beaufort-class* (Beaufort-Description)	No performance defined, reference value acc. to DIN EN 12424 for double-skinned doors	--
	Air permeability	No performance defined, reference value acc. to DIN EN 12426	class 0
	Resistance to water penetration	No performance defined, reference value acc. to DIN EN 12425	class 0
	Airborne noise insulation Rw (C;Ctr) [dB]	According to DIN EN ISO 717-1**	--
	Operating forces / Safe opening	According to EN 13241-1**	fulfilled
	Thermal insulation value Ud * [W/m²K] of the door	No performance defined, reference value according to DIN EN 12428 [W/m²K]	5.9
01	Horizontal head section to accommodate the drive technology	Sheet steel design stainless steel (X5CrNi18-10) vision area polished Drive unit made of steel, primed with epoxyd resin and RAL 7035 colour coated; low-maintenance toothed belt drive	■ ■
02	Vertical jamb housing to accommodate the winding mechanism of the door skin	Edge profiles and metal covers made of stainless steel (X5CrNi18-10) vision area polished Jamb cover made of 7035 RAL colour coated aluminium with mit PVC-skin strips Roll shaft anodised and epoxy resin primed Bearing plates and ball bearings made of stainless steel	■ ■ ■ ■
03	Vertical carrier to accommodate the safety edge control	Steel pipe design made of stainless steel (X5CrNi18-10) blanc with fixed steel struts, RAL 7035 colour coated	■
04	Ground closure	Lowering the leaves when closed (please consider the installation width)	upon request
05	Drive unit	Worm gear motor with double brake (incl. emergency handle - normally closed) Worm gear motor with double brake (without emergency handle - currentless opening) Splash-pooof drive motor, two-layer protective coating Electric motor incl. frequency converter - driving power [kW]	■ □ ■ 0.75 kW
06	Door skin	PVC-coated polyester fabric on both sides yellow colour, similar RAL 1003 Printed door-skin according to digital motif file (e.g. jpg) On both sides PVC-coated polyester fabric in special colour PVC-free design (similar to RAL 1003) Food safe TPU-coating, comparable with FDA (similar to RAL 1003) Antistatic design (similar to RAL 1003) Flame retardant design (Building material grade DIN 4102 - B1)	■ upon request □ □ □ □ □
07	Vision element	Horizontal vision element made of PVC height 520mm (from 1480mm to 2000mm) Horizontal vision element made of PVC in special heights up to 1000mm (also available with or without multiple vision fields)	■ □
08	Emergency opening	Via Bowden cable - automatic opening (Note: Upon request the door may be pushed completely open manually.) Opens automatically when currentless (Note: Upon request, the door may be pushed completely open manually.) Suitable for use in escape routes and rescue paths, in accordance with DGUV 208/044, Only valid for Germany: An approval in accordance with the provincial law may be required in specific cases. c/o width > 1600	■ □ □
09	Control system	BDC E800 F - frequency converter control for a soft start-up and a higher opening speed located in stainless steel housing (w 400 x h 600 x d 200), power supply 230V / 50Hz (L1,N,PE), pre-fuse 16A C-characteristic, residual current-operated circuit breaker type B only Stainless steel housing optionally in special »Hygienic Design« (approx. w 390 x h 770 x d 210 mm); Schutzart IP69k (nach DIN 40050-9)	■ □
10	Safety	Optoelectronic safety edge control, integrated inside the door leaf, power supply via energy chain. External photo eye External light curtain Crash protection (stay bar with unlatch mechanism) Laser sensor	■ □ □ □ □
11	Options	Hood for head section, stainless steel (X5CrNi18-10), visible side is polished, hood slanted approx. 30°	□
12		Pulse transmitter: Mushroom button / radar-sensor/ pull switch / radio control	□
13		Pulse transmitter: Infrared light sensor / radar motion sensor / induction loop detectors	□
14		Airlock control systems	□

* Depending on door size and equipment
** Test certificate and test report are available respectively
*** guide value, the value may differ i.e. may be much higher or lower in dependance of the operating conditions

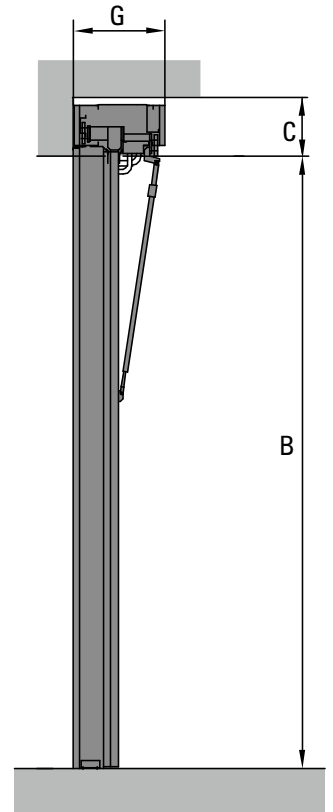
■ standard
□ available
-- not available / not defined

Technical Data
High-Speed Door NOVOSPRINT® SyncroXL

View



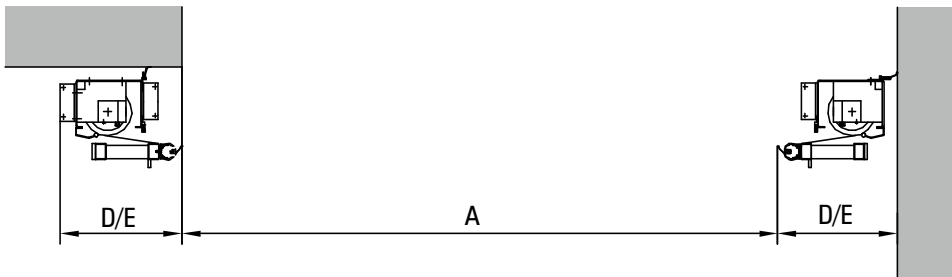
Vertical section



Horizontal section

Assembly behind the reveal (door open)

Assembly within the reveal (door open)



Dim./ Pos.	Technical Data NOVOSPRINT®	High-Speed Doors	SyncroXL
Technical state in July 2019			single-skinned
	Use*	Interior door / exterior door (only admissible when installed together with an external door)	■ / □
	Opening speed [m/s]*	Standard / optional ultraspeed, depending on the size up to:	2
	Closing speed [m/s]*	Standard / optional light curtain included, up to:	1.5
	Opening cycles / operating time*	Total number of door cycles annually, typically up to:	150.000
	Cycle: Opening and Closing = two load alternations	Maintenance interval, after max. number of door cycles or intervals respectively	60 000 or respectively 1 year
		No. of cycles, average [1 /hour]	30
		Increased no. of cycles for max. 1 hour [1 / hour]	60
		Increased no. of cycles for max. 15 minutes [1 / min]	3
	Warranty on springs*	Generally for up to cycles for max. 2 years	--

A	Clear opening width [mm]	C/o width min. / max. standard skin (PVC), Values given in brackets upon request width min. / max. for PVC-free, antistatic or food-safe door skin	(2700) 3800 / 9000 (10000) 6851 and more, additional fixing of the lintel in the centre upon request
B	Clear opening height [mm]	C/o height min. / max. Values given in brackets upon request	2100 / 6000
C	Space requirement, top (lintel) [mm]*	Head section area / Syncro XL with suspension (c/o width>6850)	480 / 880
D	Space requirement, lateral (non-drive side) [mm]*	Minimum (wall-mounted control system)	525
E	Space requirement, lateral (drive-unit side) [mm]*	Minimum (wall-mounted control system)	525
F	Space requirement, lateral (drive-unit side) [mm]* for integrated ground closure	Minimum (wall-mounted control system)	--
G	Required space, total depth [mm]*	Without additional equipment	650 or 690

	Wind load [km/h] / Beaufort-class* (Beaufort-Description)	No performance defined, reference value acc. to DIN EN 12424 for double-skinned doors	--
	Luftdurchlässigkeit	No performance defined, reference value acc. to DIN EN 12426	class 0
	Resistance to water penetration	No performance defined, reference value acc. to DIN EN 12425	class 0
	Airborne noise insulation Rw (C;Ctr) [dB]	Accord. to DIN EN ISO 717-1**	--
	Operating forces / Safe opening	Accord. to EN 13241-1**	fulfilled
	Thermal insulation value Ud *	No performance defined, reference value acc. to DIN EN 12428 [W/m²K]	5.9

01	Door frame	Top : head section, horizontal made of sheet steel, powder-coated in black acc. to RAL 9005	■
02		lateral : vertical jamb housing made of sheet steel, powder-coated in black acc. to RAL 9005	■
03		Door-skin carrier powder-coated in black acc. to RAL 9005	■
04	Ground closure	Lowering the door leaf when closed (be aware of enlarged door widths)	--

05	Drive unit	Worm gear motor with double brake (incl. emergency handle - normally closed)	■
06		Worm gear motor with double brake (without emergency handle - currentless opening)	□
07		Electric motor incl. frequency converter - driving power [kW]	3.0 kW

08	Door skin*	PVC-coated polyester fabric on both sides yellow colour, similar RAL 1003	■
09		Horizontal vision element made of PVC height 520mm (from 1480mm to 2000mm)	■
10		Horizontal vision element made of PVC in special heights up to 1000mm (also available with or without multiple vision fields)	□
11		Printed door-skin according to digital motif file (e.g. jpg)	upon request
12		On both sides PVC-coated polyester fabric in special colour	□
13		PVC-free design (similar to RAL 1003)	□
14		Food safe TPU-coating, comparable with FDA (similar to RAL 1003)	□
15		Antistatic design (similar to RAL 1003)	□
16		Flame retardant design (Building material grade DIN 4102 - B1)	□

17	Emergency opening	Via Bowden cable - automatic opening (Note: Upon request the door may be pushed completely open manually.)	■
18		Opens automatically when currentless (Note: Upon request, the door may be pushed completely open manually.)	□
19	Escape routes and rescue paths	Suitable for use in escape routes and rescue paths, in accordance with DGUV 208/044, (Only valid for Germany: An approval in accordance with the provincial law may be required in specific cases.) Max. door height 3.5m , larger heights upon request	□

20	Control system	BDC E800 F - frequency converter control for a soft start-up and a higher opening speed, power supply 230V / 50Hz (L1,N,PE), pre-fuse 16A C-characteristic, residual current-operated circuit breaker type B only	--
21		4 kW frequency converter, power supply 400V / 50Hz (3,N,PE), 16 A pre-fuse C-characteristics, residual current-operated circuit breaker type B only	■

22	Safety	Optoelectronic safety edge control integrated in the door leaf, power supply via energy chain or trailing cable (Novo syncro XL incl. radio transmission)	■
23		Optoelectronic light curtain integrated in the door leaf, power supply via energy chain or trailing cable	--
24		External photo eye	□
25		Externes light curtain	□
26		Crash protection (stay bar with unlatch mechanism)	■
27		Laser sensor	□

28	Options	Pulse transmitter: Mushroom button / radar-sensor/ pull switch / radio control	□
29		Pulse transmitter: Infrared light sensor / radar motion sensor / induction loop detectors	□
30		Airlock control systems	□
40		Combination with Spacelite stacking doors	□

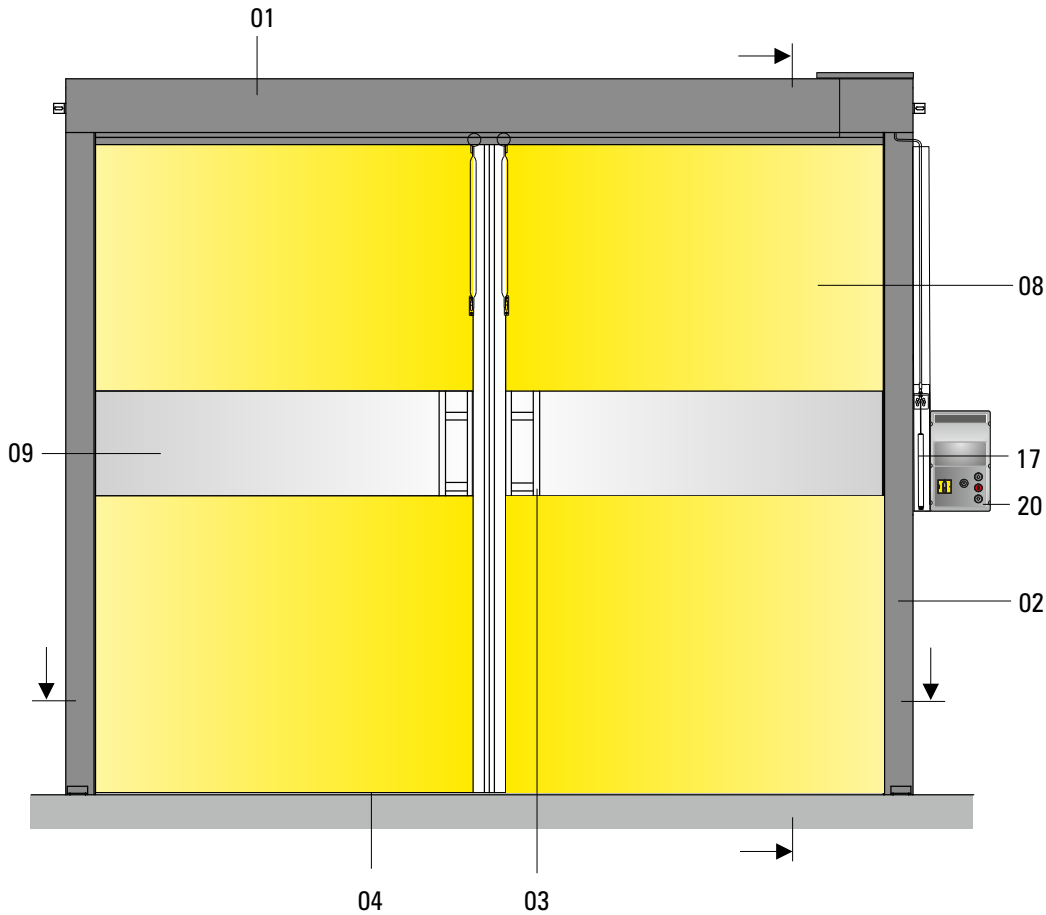
* Depending on door size and equipment
** Test certificate and test report are available respectively
*** guide value, the value may differ i.e. may be much higher or lower in dependance of the operating conditions

■ standard
□ available
-- not available / not defined

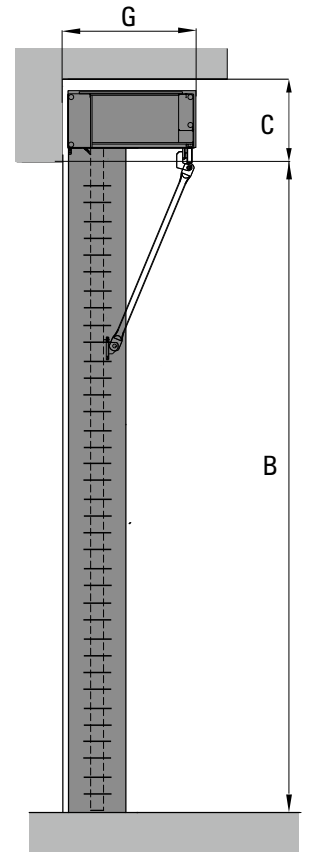
Technical Data

High-Speed Door NOVOSPRINT® Syncro

View of double-skinned door

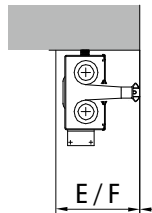


Vertical section

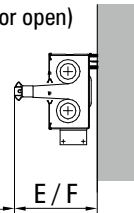


Horizontal section

Assembly behind the reveal
(door open)



Assembly within the reveal
(door open)



Dim./ Pos.	Technical Data NOVOSPRINT® High-Speed Doors		Syncro	
	Technical state in July 2019		single-skinned	double-skinned
	Use*	Interior door / exterior door (only admissible when installed together with an external door)	■ / -	■ / □
	Opening speed [m/s]*	Standard / optional ultraspeed, depending on the size up to:	3.5 / 5.0	3.5
	Closing speed [m/s]*	Standard / optional light curtain included, up to:	1.5 / 2.5	
	Opening cycles / operating time* Cycle: Opening and Closing = two load alternations	Total number of door cycles, typically up to:	350 000	350 000
		Maintenance interval, after max. number of door cycles or intervals respectively	125 000 or respectively 1 year	125 000 or respectively 1 year
		No. of cycles, average [1 /hour]	60	60
		Increased no. of cycles for max. 1 hour [1 / hour]	120	120
	Warranty on springs*	Increased no. of cycles for max. 15 minutes [1 / min]	6	6
		Generally for up to cycles for max. 2 years	500 000	
A	Clear opening width [mm]	C/o width min. / max. standard skin (PVC), Values given in brackets upon request width min. / max. for PVC-free, antistatic or food-safe door skin	1000 / 4500 / 5300 reinforced 1000 / 4300	
B	Clear opening height [mm]	C/o height min. / max. Values given in brackets upon request	1700 / 4500 / 5000 reinforced	1700 / 4500
C	Space requirement, top (lintel) [mm]*	Head section area / Syncro XL with suspension (c/o width>6850)	330	
D	Space requirement, lateral (non-drive side) [mm]*	Minimum (wall-mounted control system)	350	
E	Space requirement, lateral (drive-unit side) [mm]*	Minimum (wall-mounted control system)	350	
F	Space requirement, lateral (drive-unit side) [mm]* for integrated ground closure	Minimum (wall-mounted control system)	410	
G	Required space, total depth [mm]*	Without additional equipment	420 oder 520 / 550 reinforced	
	Wind load [km/h] / Beaufort-class* (Beaufort-Description)	No performance defined, reference value acc. to DIN EN 12424 for double-skinned doors	--	50 - 100 / 6 - 10
	Luftdurchlässigkeit	No performance defined, reference value acc. to DIN EN 12426	class 0	
	Resistance to water penetration	No performance defined, reference value acc. to DIN EN 12425	class 0	
	Airborne noise insulation Rw (C;Ctr) [dB]	Accord. to DIN EN ISO 717-1**	--	7
	Operating forces / Safe opening	Accord. to EN 13241-1**	fulfilled	
	Thermal insulation value Ud *	No performance defined, reference value acc. to DIN EN 12428 [W/m²K]	5.9	4.9
01	Door frame	Top : head section, horizontal made of sheet steel, powder-coated in black acc. to RAL 9005	■	
02		lateral : vertical jamb housing made of sheet steel, powder-coated in black acc. to RAL 9005	■	
03		Door-skin carrier powder-coated in black acc. to RAL 9005	■	
04	Ground closure	Lowering the door leaf when closed (be aware of enlarged door widths)	□	□
05	Drive unit	Worm gear motor with double brake (incl. emergency handle - normally closed)	■	
06		Worm gear motor with double brake (without emergency handle - currentless opening)	□	
07		Electric motor incl. frequency converter - driving power [kW]	0.75 kW	1.5 kW
08	Door skin*	PVC-coated polyester fabric on both sides yellow colour, similar RAL 1003	■	
09		Horizontal vision element made of PVC height 520mm (from 1480mm to 2000mm)	■	
10		Horizontal vision element made of PVC in special heights up to 1000mm (also available with or without multiple vision fields)	□	
11		Printed door-skin according to digital motif file (e.g. jpg)	upon request	
12		On both sides PVC-coated polyester fabric in special colour	□	
13		PVC-free design (similar to RAL 1003)	□	
14		Food safe TPU-coating, comparable with FDA (similar to RAL 1003)	□	
15		Antistatic design (similar to RAL 1003)	□	
16	Flame retardant design (Building material grade DIN 4102 - B1)	□		
17	Emergency opening	Via Bowden cable - automatic opening (Note: Upon request the door may be pushed completely open manually.)	■	
18		Opens automatically when currentless (Note: Upon request, the door may be pushed completely open manually.)	□	
19	Escape routes and rescue paths	Suitable for use in escape routes and rescue paths, in accordance with DGUV 208/044, (Only valid for Germany: An approval in accordance with the provincial law may be required in specific cases.) Max. door height 3.5m , larger heights upon request	□	
20	Control system	BDC E800 F - frequency converter control for a soft start-up and a higher opening speed, power supply 230V / 50Hz (L1,N,PE), pre-fuse 16A C-characteristic, residual current-operated circuit breaker type B only	■	
21		4 kW frequency converter, power supply 400V / 50Hz (3,N,PE), 16 A pre-fuse C-characteristics, residual current-operated circuit breaker type B only	--	
22	Safety	Optoelectronic safety edge control integrated in the door leaf, power supply via energy chain or trailing cable (Novo syncro XL incl. radio transmission)	■	
23		Optoelectronic light curtain integrated in the door leaf, power supply via energy chain or trailing cable	□	
24		External photo eye	□	
25		Externes light curtain	□	
26		Crash protection (stay bar with unlatch mechanism)	□	
27		Laser sensor	□	
28	Options	Pulse transmitter: Mushroom button / radar-sensor/ pull switch / radio control	□	
29		Pulse transmitter: Infrared light sensor / radar motion sensor / induction loop detectors	□	
30		Airlock control systems	□	
40		Combination with Spacelite stacking doors	□	

* Depending on door size and equipment
** Test certificate and test report are available respectively
*** guide value, the value may differ i.e. may be much higher or lower in dependance of the operating conditions

■ standard
□ available
-- not available / not defined