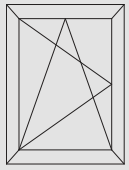
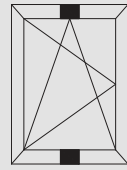
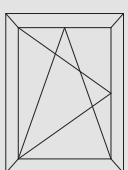
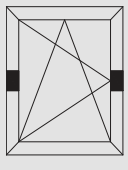
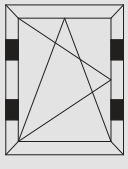


Inward opening
Turn/tilt fittings max. 150 kg – concealed

R-Designo VL EG
R-Designo VL GG

see diagrams:
4300 / 4302 / 4304 / 4306 /
4308 / 4310 / 4312 / 4314

							UV	
	Stay 500 mm		Stay 735 mm		Stay 735 mm			
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
	DK-additional width stay	/	/	/	/	293955 ²	293955 ²	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK-additional width stay	/	/	/	/	293955 ²	293955 ²	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK-additional width stay	/	/	/	/	293955 ²	293955 ²	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	293723 ^{9, 44}	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)

² Additional width stay for sash width ≥ 1300 mm.

⁴ Width restrictor for sash width ≤ 800 mm.

⁵ Turn restrictor set from sash width ≥ 1200 mm.

⁹ Turn restrictor set up to sash width < 1200 optional – max. opening angle 94°.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

⁴⁴ Alternatively:

- 293720 Damped opening restrictor size 1
 - Minimum sash width 530 mm for max. opening angle (63°) or
- 293721 Damped opening restrictor size 2
 - Minimum sash width 600 mm for max. opening angle (90°), for additional horizontal locking
 - Minimum sash width 1170 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

⁵⁰ Not possible with 90 WB-T.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

Inward opening

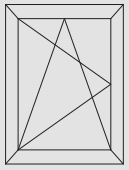
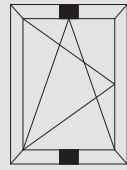
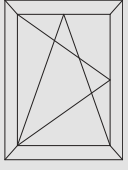
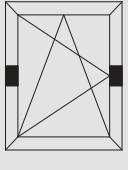
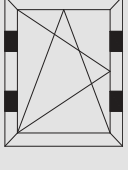
Turn/tilt fittings max. 150 kg – concealed WK2/RC2

R-Designo VL EG WK2 R-Designo VL GG WK2

see diagrams:

4302 / 4304 / 4306 / 4308 /

4310 / 4312 / 4314

							UV	
	Stay 500 mm		Stay 735 mm		Stay 735 mm			
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
	SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
	SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)
	DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
	SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)

⁴ Width restrictor for sash width ≤ 800 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

²⁰ Up to sash width 804 mm 5x, from sash width 805 mm 7x.

⁴¹ Up to sash width 804 mm 10x, from sash width 805 mm 14x.

⁵⁰ Not possible with 90 WB-T.

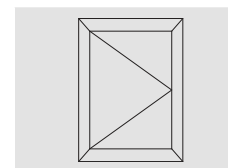
■ Gear

Article	No.	UV	Note
SEC flush encased gear box	293063	10 pc(s)	Additional window handle, lockable according to DIN V ENV 1627 – 1630, see product range
SEC geared- handle protection set	293065 ⁵⁰	10 pc(s)	Additional geared handle, lockable according to DIN V ENV 1627 – 1630, see product range

Inward opening
Turn fittings 80 kg – concealed

R-Designo VL DK EG
R-Designo VL DK GG

see diagrams:
4280 / 4282 / 4286 /
4290 / 4292



**Turn/tilt fitting,
tilt position locked
Connectable
rebate hinge**

		DIN R		UV
		No.	No.	
	D-DK lock	293719	293719	1 pc(s)
	Angle fastener	293951	293951	10 pc(s)
	D-DK hinges	293632	293633	1 pc(s)
	Gear lock	293867	293867	10 pc(s)
	Turn restrictor set without brake	293723⁹	293723⁹	10 pc(s)
	D-DK lock	293719	293719	1 pc(s)
	Angle fastener	293951	293951	10 pc(s)
	D-DK hinges	293632	293633	1 pc(s)
	Gear lock	293867	293867	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723⁹	293723⁹	10 pc(s)
	D-DK lock	293719	293719	1 pc(s)
	Angle fastener	293951	293951	10 pc(s)
	D-DK hinges	293632	293633	1 pc(s)
	Gear lock	293867	293867	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	10 pc(s)
	Turn restrictor set without brake	293723⁹	293723⁹	10 pc(s)

⁹ Turn restrictor set optional
– Minimum sash width 360 mm – max. opening angle 94°.

⁵⁰ Not possible with 90 WB-T.

■ **Gear**

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865⁵⁰	10 pc(s)	Additional geared handle, see product range

Inward opening

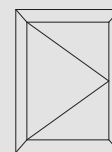
Turn fittings 80 kg – concealed WK2/RC2

R-Designo VL DK EG WK2

R-Designo VL DK GG WK2

see diagrams:

4282 / 4286 / 4290 / 4292



Turn/tilt fitting,
tilt position locked
Connectable
rebate hinge

DIN R DIN L

No. No.

UV

	D-DK lock	293957	293957	10 pc(s)
	Stop wedge	293052	293052	10 pc(s)
	Angle fastener	293954	293954	10 pc(s)
	D-DK hinges	293632	293633	1 pc(s)
	Gear lock	293867	293867	10 pc(s)
	SEC locking set	5x 293050	5x 293050	10 pc(s)
	Screws for fixation SEC locking set	10x 904260	10x 904260	100 pc(s)
	Riveting nut for fixation SEC locking set	10x 910100	10x 910100	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	10 pc(s)
	SEC corner drive set	293062	293062	20 pc(s)
		D-DK lock	293957	293957
Stop wedge		293052	293052	10 pc(s)
Angle fastener		293954	293954	10 pc(s)
D-DK hinges		293632	293633	1 pc(s)
Additional locking vertical		2x 293954	2x 293954	10 pc(s)
Gear lock		293867	293867	10 pc(s)
SEC locking set		5x 293050	5x 293050	10 pc(s)
Screws for fixation SEC locking set		10x 904260	10x 904260	100 pc(s)
Riveting nut for fixation SEC locking set		10x 910100	10x 910100	100 pc(s)
SEC rebate clearance reduction set		293051	293051	10 pc(s)
SEC corner drive set		293062	293062	20 pc(s)
	D-DK lock	293957	293957	10 pc(s)
	Stop wedge	293052	293052	10 pc(s)
	Angle fastener	293954	293954	10 pc(s)
	D-DK hinges	293632	293633	1 pc(s)
	Additional locking vertical	4x 293954	4x 293954	10 pc(s)
	Gear lock	293867	293867	10 pc(s)
	SEC locking set	5x 293050	5x 293050	10 pc(s)
	Screws for fixation SEC locking set	10x 904260	10x 904260	100 pc(s)
	Riveting nut for fixation SEC locking set	10x 910100	10x 910100	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	10 pc(s)
	SEC corner drive set	293062	293062	20 pc(s)

⁵⁰ Not possible with 90 WB-T.

■ Gear

Article	No.	UV	Note
SEC flush encased gear box	293063	10 pc(s)	Additional window handle, lockable according to DIN V ENV 1627 – 1630, see product range
SEC geared-handle protection set	293065 ⁵⁰	10 pc(s)	Additional geared handle, lockable according to DIN V ENV 1627 – 1630, see product range

Inward opening
Turn fittings max. 150 kg – concealed

R-Designo VL DK EG
R-Designo VL DK GG

see diagrams:
4300 / 4302 / 4304 / 4306 /
4308 / 4310 / 4312 / 4314

		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		UV
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Gear lock	293868	293868	293868	293868	293867	293867	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 45}	293723 ^{9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Gear lock	293868	293868	293868	293868	293867	293867	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 45}	293723 ^{9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	10 pc(s)
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Gear lock	293868	293868	293868	293868	293867	293867	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)
	Central fastener set horizontal	/	/	/	/	293953	293953	10 pc(s)
	Turn restrictor set without brake	293723 ^{9, 45}	293723 ^{9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	293723 ^{5, 9, 45}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

⁵ Turn restrictor set from sash width ≥ 1200 mm.

⁹ Turn restrictor set up to sash width < 1200 optional max. opening angle 94°.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

⁴⁵ Alternatively:
– 293720 Damped opening restrictor size 1
– Minimum sash width 530 mm for max. opening angle (63°), or
– 293721 Damped opening restrictor size 2
– Minimum sash width 600 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1185 mm for max. opening angle (90°).
– Larger sash widths are required for smaller opening angles.

⁵⁰ Not possible with 90 WB-T.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

FRAME⁺ 90 WI/WB/WB-T

Selection tables VL

Inward opening

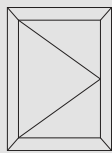
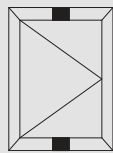
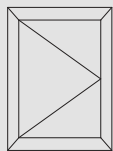
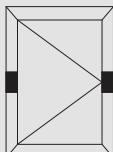
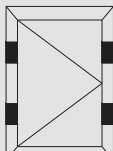
Turn fittings max. 150 kg – concealed WK2/RC2

R-Designo VL DK EG WK2 R-Designo VL DK GG WK2

see diagrams:

4302 / 4304 / 4306 / 4308 /

4310 / 4312 / 4314

								UV
		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
	SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)	
	D-DK basic fitting	293690	293692	293691	293693	293691	293693	1 pc(s)
	Angle fastener	293954	293954	293954	293954	293954	293954	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	SEC locking set	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	293050 ²⁰	10 pc(s)
	Screws for fixation SEC locking set	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	904260 ⁴¹	100 pc(s)
	Riveting nut for fixation SEC locking set	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	910100 ⁴¹	100 pc(s)
	SEC rebate clearance reduction set	293051	293051	293051	293051	293051	293051	10 pc(s)
SEC corner drive set	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	2x 293062	20 pc(s)	

¹² Reinforcement for sash weight > 100 kg

– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

²⁰ Up to sash width 804 mm 5x, from sash width 805 mm 7x.

⁴¹ Up to sash width 804 mm 10x, from sash width 805 mm 14x.

⁵⁰ Not possible with 90 WB-T.

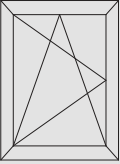
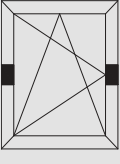
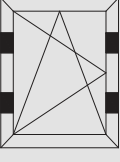
■ Gear

Article	No.	UV	Note
SEC flush encased gear box	293063	10 pc(s)	Additional window handle, lockable according to DIN V ENV 1627 – 1630, see product range
SEC geared- handle protection set	293065 ⁵⁰	10 pc(s)	Additional geared handle, lockable according to DIN V ENV 1627 – 1630, see product range

Inward opening
Tilt-before-turn fittings max. 150 kg – concealed

R-Designo VL EG
R-Designo VL GG

see diagrams:
4300 / 4302 / 4304 / 4306 /
4308 / 4310 / 4312 / 4314

	Stay 500 mm				Stay 735 mm		UV		
	DIN R		DIN L		DIN R			DIN L	
	No.	No.	No.	No.	No.	No.		No.	No.
	KVD basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)	
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)	
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)	
	KVD additional width stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)	
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)	
	Turn restrictor set without brake	293723 ^{3, 46}	293723 ^{3, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	10 pc(s)	
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	KVD basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)	
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)	
	KVD additional width stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)	
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)	
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)	
	Turn restrictor set without brake	293723 ^{3, 46}	293723 ^{3, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	10 pc(s)	
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	KVD basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)	
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)	
	KVD additional width stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)	
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)	
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)	
	Turn restrictor set without brake	293723 ^{3, 46}	293723 ^{3, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	293723 ^{3, 5, 46}	10 pc(s)	
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

² Additional width stay for sash width ≥ 1300 mm.

³ Turn restrictor set up to sash width < 1200 optional max. opening angle 94°.

⁴ Width restrictor for sash width ≤ 800 mm.

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

⁴⁵ Alternatively:

- 293720 Damped opening restrictor size 1
– Minimum sash width 640 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
– Minimum sash width 710 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1170 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

⁵⁰ Not possible with 90 WB-T.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

FRAME+ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg side handle – concealed

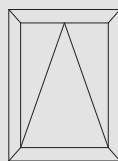
R-Designo VL EG GS

R-Designo VL GG GS

see diagrams:

4300 / 4302 / 4304 / 4306 /

4308 / 4310 / 4312 / 4314



K-Side handle



K-Side handle

		Stay 500 mm		Stay 735 mm		Stay 735 mm		UV
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	
 K-Side handle	K-GS basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
	K-GS additional stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Gear lock	293868	293868	293868	293868	293868	293868	10 pc(s)
 K-Side handle	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	K-GS basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	K-GS additional stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
 K-Side handle	Gear lock	293868	293868	293868	293868	293868	293868	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
	K-GS basic fitting	293704	293706	293705	293707	293705	293707	1 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	K-GS additional stay	/	/	/	/	293956 ²	293956 ²	10 pc(s)
	Additional locking vertical	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Gear lock	293868	293868	293868	293868	293868	293868	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)

¹ Article optional.

² Additional width stay for sash width \geq 1300 mm.

⁴ Width restrictor for sash width \leq 800 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight \leq 80 kg.

⁵⁰ Not possible with 90 WB-T.

■ Gear

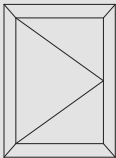
Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

Inward opening
Turn fittings max. 150 kg, hinges adjustable – concealed

R-Designo VL DB EG
R-Designo VL DB GG

see diagrams:

4320 / 4321/ 4322 / 4324 / 4326 /
4328 / 4330 / 4331 / 4332 / 4334

		D lock		D central lock		UV
		DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	
	Lock	293250	293250	293251	293251	10 pc(s)
	Turn hinges	293708	293709	293708	293709	1 pc(s)
	Gear lock	293867	293867	293867	293867	10 pc(s)
	Turn restrictor set without brake	293723 ^{5, 9, 47}	293723 ^{5, 9, 47}	293723 ^{5, 9, 47}	293723 ^{5, 9, 47}	10 pc(s)
	Reinforcement set 80-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)

⁵ Turn restrictor set from sash width \geq 1200 mm.

⁹ Turn restrictor set up to sash width < 1200 optional
- Minimum sash width 360 mm, max. opening angle 94°.

¹¹ Reinforcement for sash weight > 80 kg
- Note: Do not use reinforcement for a sash weight \leq 80 kg.

⁴⁴ Alternatively:
- 293720 Damped opening restrictor size 1
- Minimum sash width 530 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
- Minimum sash width 600 mm for max. opening angle (90°), for additional horizontal locking
- Minimum sash width 1185 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

⁵⁰ Not possible with 90 WB-T.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

FRAME+ 90 WI/WB/WB-T

Selection tables VL

Inward opening

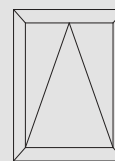
Tilt fittings max. 100 kg top handle – concealed

R-Designo VL EG GO

R-Designo VL GG GO

see diagram:

4340



K-Top handle

		No.	UV
	K lock	293350	10 pc(s)
	K hinge	293710	1 pc(s)
	Gear lock	293867	10 pc(s)
	K lock	293350	10 pc(s)
	K hinge	293710	1 pc(s)
	Corner drive with locking	293957	10 pc(s)
	Gear lock	293867	10 pc(s)

⁵⁰ Not possible with 90 WB-T.

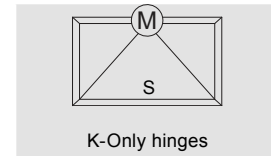
■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865 ⁵⁰	10 pc(s)	Additional geared handle, see product range

Inward opening
Turn fittings max. 100 kg only hinges – concealed

R-Designo VL only hinges

see diagrams:
4341 / 4345 / 4349 / 4351 / 4355



		No.	UV
 K-Only hinges	K hinge	293710	1 pc(s)
	Restrictor stay	35, 38, 39	
 K-Only hinges	K hinge	293710	1 pc(s)
	Restrictor stay	35, 38, 39	
	Corner drive with locking	293957	10 pc(s)
 K-Only hinges	K hinge	293710	1 pc(s)
	Restrictor stay	35, 40	20 pc(s)
	Corner drive with locking	293957	10 pc(s)
	Additional locking vertical	2x 293954	10 pc(s)

S = single motor / V = Locking motor

³⁵ The restrictor stay is essential when using a single motor. If using at least two motors, check with the motor manufacturer whether a restrictor stay is required. Use of restrictor stays, see German professional association regulation 232.

³⁸ Alternatively:

291600 restrictor and cleaning stay – small – size 1 – opening width approximately 260 mm – PU = 20 pc(s)

- Sash height 880 to 1000, opening width in cleaning position 55°, max. sash weight when installing 1 stay, 27 kg, max. sash weight when installing 2 stays, 57 kg

- Sash height 1001 to 1300, opening width in cleaning position 35°, max. sash weight when installing 1 stay, 30 kg, max. sash weight when installing 2 stays, 62 kg

- Additional use ranges on request.

- For sash width \geq 700 mm 2x 291600 additional 291603 Accessories for restrictor and cleaning stay – small – UV = 20 pc(s).

³⁹ Alternatively:

- Restrictor and cleaning stay – large – opening width approximately 210 mm – PU = 20 pc(s) – weight of glass filling when installing 2 stays max. 30 kg/m².

- 2x 291508 restrictor and cleaning stay – large – size 4 – sash height 900 to 1300 mm – opening width in cleaning position approximately 75°

- In case of additional vertical locking minimum sash height 1100 mm.

⁴⁰ Restrictor stay mit durchführbarer Riegelstange zur Mehrfachverriegelung auf Anfrage.

FRAME⁺ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg, hinges adjustable – concealed

Inactive leaf dummy mullion toggle lever

R-Designo VL EG K

+ active leaf R-Designo VL EG K

R-Designo VL GG K

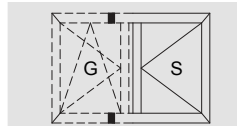
+ active leaf R-Designo VL GG K

see diagrams:

4360 / 4361 / 4362 / 4364 / 4365 /

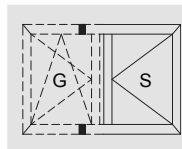
4366 / 4368 / 4369 / 4370 / 4372 /

4373 / 4374 / 4376 / 4377 / 4378



■ **Technical information**

– Use 225540 locking bolt in inactive leaf.



	Dummy mullion toggle lever		UV
	DIN R	DIN L	
	No.	No.	
Dummy mullion lock, toggle lever	293451	293451	10 pc(s)
Turn hinges	293708	203709	1 pc(s)
Turn restrictor set without brake	293723 ^{5, 31, 48}	293723 ^{5, 31, 48}	10 pc(s)
Reinforcement set 80-150 kg	293630 ¹¹	293631 ¹¹	10 pc(s)

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width \geq 1200 mm.

¹¹ Reinforcement for sash weight > 80 kg

– Note: Do not use reinforcement for a sash weight \leq 80 kg.

³¹ Turn restrictor set up to sash width < 1200 optional

– Minimum sash width 355 mm, max. opening angle 94°.

⁴⁸ Alternatively:

– 293720 Damped opening restrictor size 1

– Minimum sash width 530 mm for max. opening angle (63°) or

– 293721 Damped opening restrictor size 2

– Minimum sash width 600 mm for max. opening angle (90°)

– Larger sash widths are required for smaller opening angles.

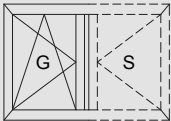
The table ist continued on the next page!

Inward opening
Turn/tilt fittings max. 150 kg – concealed
Active leaf dummy mullion toggle lever

R-Designo VL EG K
R-Designo VL GG K

see diagrams:

4360 / 4361 / 4362 / 4364 / 4365 /
4366 / 4368 / 4369 / 4370 / 4372 /
4373 / 4374 / 4376 / 4377 / 4378

	Stay 500 mm		Stay 735 mm		UV
	DIN R	DIN L	DIN R	DIN L	
	No.	No.	No.	No.	
 DK lock dummy mullion	293461	293461	293461	293461	10 pc(s)
Angle fastener	293951	293951	293951	293951	10 pc(s)
DK stay set	293711	293712	293713	293714	1 pc(s)
Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
DK corner pivot rest	293725	293726	293725	293726	1 pc(s)
Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{33, 50}	293723 ^{33, 50}	293723 ^{5, 33, 50}	293723 ^{5, 33, 50}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)

G = Active leaf/S = Inactive leaf

⁴ Width restrictor for sash width ≤ 800 mm.

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg

– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³³ Turn restrictor set up to sash width < 1200 optional, max. opening angle 94°.

⁵⁰ Alternatively:

- 293720 Damped opening restrictor size 1
- Minimum sash width 705 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
- Minimum sash width 770 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

FRAME⁺ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg – concealed

Inactive leaf dummy mullion gear

R-Designo VL EG G

+ active leaf R-Designo VL EG G

R-Designo VL GG G

+ active leaf R-Designo VL GG G

R-Designo VL EG G-B

+ active leaf R-Designo VL EG G-B

R-Designo VL GG G-B

+ active leaf R-Designo VL GG G-B

see diagrams:

4400 / 4401 / 4404 / 4405 / 4406 /

4408 / 4409 / 4410 / 4412 / 4413 /

4416 / 4417 / 4418

		Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 500 mm		UV
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	293954	293954	293954	293954	293954	293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)	
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)	
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width \geq 1200 mm.

¹¹ Reinforcement for sash weight > 100 kg

– Note: Do not use reinforcement for a sash weight \leq 80 kg.

³² Turn restrictor set up to sash width < 1200 optional

– Minimum sash width 490 mm, max. opening angle 94°.

⁵¹ Alternatively:

– 293720 Damped opening restrictor size 1

– Minimum sash width 665 mm for max. opening angle (63°), or

– 293721 Damped opening restrictor size 2

– Minimum sash width 735 mm for max. opening angle (90°), for additional horizontal locking

– Minimum sash width 1190 mm for max. opening angle (90°).

– Larger sash widths are required for smaller opening angles.

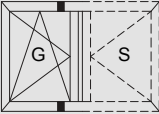
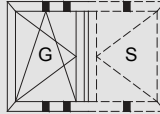

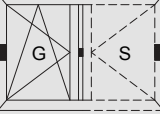
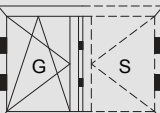
The table is continued on the next page!

Inward opening
Turn/tilt fittings max. 150 kg – concealed
Active leaf dummy mullion gear

R-Designo VL EG G
R-Designo VL GG G
R-Designo VL EG G-B
R-Designo VL GG G-B

see diagrams:

4400 / 4401 / 4404 / 4405 / 4406 /
4408 / 4409 / 4410 / 4412 / 4413 /
4416 / 4417 / 4418

							UV	
	Stay 500 mm		Stay 735 mm		Stay 735 mm			
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking vertical	293959	293959	293959	293959	293959	293959	10 pc(s)
Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)	
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	10 pc(s)
Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)	
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

G = Active leaf/S = Inactive leaf

² Additional width stay for sash width ≥ 1300 mm.

⁴ Width restrictor for sash width ≤ 800 mm.

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³³ Turn restrictor set up to sash width < 1200 optional, max. opening angle 94°.

⁵² Alternatively:

- 293720 Damped opening restrictor size 1
– Minimum sash width 705 mm for max. opening angle (63°) or
- 293721 Damped opening restrictor size 2
– Minimum sash width 775 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1170 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

Inward opening

Turn fittings max. 150 kg – concealed

Inactive leaf dummy mullion with handle on active and inactive leaf

R-Designo VL EG 2G

+ active leaf R-Designo VL EG 2G

R-Designo VL GG 2G

+ active leaf R-Designo VL GG 2G

see diagrams:

3980 / 3981 / 3984 / 3985 /

3986 / 3988 / 3989 / 3990

	Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 500 mm		UV	
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	Dummy mullion lock	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)
	Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)
	Dummy mullion lock	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	293954	293954	293954	293954	293954	293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	
	Dummy mullion lock	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{5, 32, 51}	293723 ^{5, 32, 51}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹¹ Reinforcement for sash weight > 100 kg

– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³² Turn restrictor set up to sash width < 1200 optional

– Minimum sash width 490 mm, max. opening angle 94°.

⁵¹ Alternatively:

– 293720 Damped opening restrictor size 1

– Minimum sash width 665 mm for max. opening angle (63°), or

– 293721 Damped opening restrictor size 2

– Minimum sash width 735 mm for max. opening angle (90°), for additional horizontal locking

– Minimum sash width 1190 mm for max. opening angle (90°).

– Larger sash widths are required for smaller opening angles.

The table is continued on the next page!

■ Gear


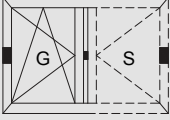
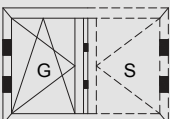
Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

Inward opening
Turn/tilt fittings max. 150 kg – concealed
Active leaf dummy mullion with handle on active and inactive leaf

R-Designo VL EG 2G
R-Designo VL GG 2G

see diagrams:

3980 / 3981 / 3984 / 3985 /
3986 / 3988 / 3989 / 3990

	Stay 500 mm				Stay 735 mm		UV	
	DIN R		DIN L		DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Width restrictor	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	293622 ⁴	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking vertical	293959	293959	293959	293959	293959	293959	10 pc(s)
Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)	
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	DK lock dummy mullion	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	DK stay set	293711	293712	293713	293714	293713	293714	1 pc(s)
	DK corner pivot rest	293725	293726	293725	293726	293725	293726	1 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	10 pc(s)
Turn restrictor set without brake	293723 ^{33, 52}	293723 ^{33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	293723 ^{5, 33, 52}	10 pc(s)	
Reinforcement set 100-150 kg	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

G = Active leaf/S = Inactive leaf

² Additional width stay for sash width ≥ 1300 mm.

⁴ Width restrictor for sash width ≤ 800 mm.

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg

– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³³ Turn restrictor set up to sash width < 1200 optional, max. opening angle 94°.

⁵² Alternatively:

– 293720 Damped opening restrictor size 1

- Minimum sash width 705 mm for max. opening angle (63°), or

– 293721 Damped opening restrictor size 2

- Minimum sash width 775 mm for max. opening angle (90°), for additional horizontal locking

- Minimum sash width 1170 mm for max. opening angle (90°).

– Larger sash widths are required for smaller opening angles.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

FRAME+ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg, hinges adjustable – concealed

Inactive leaf dummy mullion toggle lever

R-Designo VL DB EG K

+ active leaf R-Designo VL DB EG K

R-Designo VL DB GG K

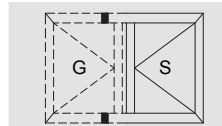
+ active leaf R-Designo VL DB GG K

see diagrams:

4360 / 4361 / 4362 / 4364 / 4365 /

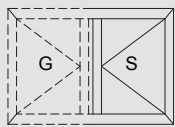
4366 / 4368 / 4369 / 4370 / 4372 /

4373 / 4374 / 4376 / 4377 / 4378



■ Technical information

– Use 225540 locking bolt in inactive leaf.

	Dummy mullion toggle lever		UV
	DIN R	DIN L	
	No.	No.	
 Dummy mullion lock, toggle lever	293451	293451	10 pc(s)
D hinges	293708	293709	1 pc(s)
Turn restrictor set without brake	293723 ^{31, 48}	293723 ^{31, 48}	10 pc(s)
Reinforcement set 80-150 kg	293630 ¹¹	293631 ¹¹	10 pc(s)

G = Active leaf/S = Inactive leaf

¹¹ Reinforcement for sash weight > 80 kg

– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³¹ Turn restrictor set up to sash width < 1200 optional

– Minimum sash width 355 mm max. opening angle 94°.

⁴⁸Alternatively:

– 293720 Damped opening restrictor size 1

– Minimum sash width 530 mm for max. opening angle (63°), or

– 293721 Damped opening restrictor size 2

– Minimum sash width 600 mm for max. opening angle (90°),

– Larger sash widths are required for smaller opening angles.

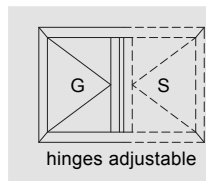
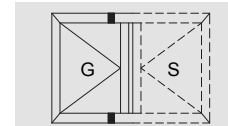
The table ist continued on the next page!

Inward opening
Turn fittings max. 150 kg, hinges adjustable – concealed
Active leaf dummy mullion toggle lever

R-Designo VL DB EG K
R-Designo VL DB GG K

see diagrams:

4360 / 4361 / 4362 / 4364 / 4365 /
4366 / 4368 / 4369 / 4370 / 4372 /
4373 / 4374 / 4376 / 4377 / 4378



	D central lock		UV
	DIN R	DIN L	
Lock	293462	293462	10 pc(s)
D hinges	293708	293709	1 pc(s)
Gear lock	293867	293867	10 pc(s)
Additional locking horizontal	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723^{9, 54}	293723^{9, 54}	10 pc(s)
Reinforcement set 80-150 kg	293630¹¹	293631¹¹	10 pc(s)

G = Active leaf/S = Inactive leaf

⁹ Turn restrictor set up to sash width < 1200 optional
– Minimum sash width 465 mm, max. opening angle 94°.

¹¹ Reinforcement for sash weight > 80 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

⁵⁴ Alternatively:
– 293720 Damped opening restrictor size 1
– Minimum sash width 635 mm for max. opening angle (63°), or
– 293721 Damped opening restrictor size 2
– Minimum sash width 705 mm for max. opening angle (90°).
– Larger sash widths are required for smaller opening angles.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

FRAME⁺ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg – concealed

Inactive leaf dummy mullion gear

R-Designo VL DK EG G

+ active leaf R-Designo VL DK EG G

R-Designo VL DK GG G

+ active leaf R-Designo VL DK GG G

R-Designo VL DK EG G-B

+ active leaf R-Designo VL DK EG G-B

R-Designo VL DK GG G-B

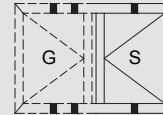
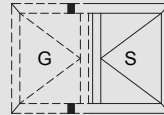
+ active leaf R-Designo VL DK GG G-B

see diagrams:

4400 / 4401 / 4404 / 4405 / 4406 /

4408 / 4409 / 4410 / 4412 / 4413 /

4416 / 4417 / 4418



	Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 500 mm		UV	
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.		
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler compon. set f. driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler compon. set f. driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking vertical	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	10 pc(s)	
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	
	Dummy mullion lock gear							
	Profile series FF, WB	293455	293455	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	293456	293456	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	1 pc(s)
	Coupler compon. set f. driving rod	293962	293962	293962	293962	293962	293962	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	10 pc(s)	
Reinforcement set 100-150 kg	/	/	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	10 pc(s)	

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width \geq 1200 mm.

¹¹ Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight \leq 80 kg.

³² Turn restrictor set up to sash width < 1200 optional
– Minimum sash width 490 mm, max. opening angle 94°.

⁵¹ Alternatively:

- 293720 Damped opening restrictor size 1
– Minimum sash width 665 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
– Minimum sash width 735 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1190 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.

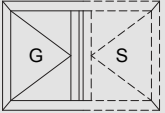
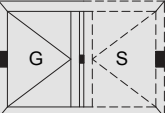
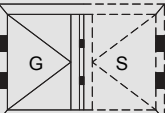
The table is continued on the next page!

Inward opening
Turn fittings max. 150 kg – concealed
Active leaf dummy mullion gear

R-Designo VL DK EG G
R-Designo VL DK GG G
R-Designo VL DK EG G-B
R-Designo VL DK GG G-B

see diagrams:

4400 / 4401 / 4404 / 4405 / 4406 /
4408 / 4409 / 4410 / 4412 / 4413 /
4416 / 4417 / 4418

	Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		UV	
	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.	No.	No.	No.	No.		
	D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	10 pc(s)	
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	10 pc(s)	
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	1 pc(s)	
	D-DK stay set	/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Turn restrictor set without brake	293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
	Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
		D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	10 pc(s)
Angle fastener		293951	293951	293951	293951	293951	293951	293951	10 pc(s)	
D-DK hinges – connectable		293632	293633	/	/	/	/	/	1 pc(s)	
D-DK stay set		/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
D-DK corner pivot rest		/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
Gear lock		293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
Additional locking horizontal		2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
Additional locking vertical		293954	293954	293954	293954	293954	293954	293954	293954	10 pc(s)
Additional locking vertical		293959	293959	293959	293959	293959	293959	293959	293959	10 pc(s)
Turn restrictor set without brake		293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	10 pc(s)	
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	10 pc(s)	
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	1 pc(s)	
	D-DK stay set	/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	10 pc(s)
	Turn restrictor set without brake	293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³⁴ Turn restrictor set up to sash width < 1200 optional
– Minimum sash width 540 mm max. opening angle 94°.

⁵⁵ Alternatively:

- 293720 Damped opening restrictor size 1
– Minimum sash width 710 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
– Minimum sash width 780 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1185 mm for max. opening angle (80°).
- Larger sash widths are required for smaller opening angles.

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

FRAME+ 90 WI/WB/WB-T

Selection tables VL

Inward opening

Turn fittings max. 150 kg, hinges adjustable – concealed

Inactive leaf dummy mullion gear

R-Designo VL DB EG G

+ active leaf R-Designo VL DB EG G

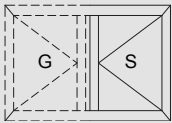
R-Designo VL DB GG G

+ active leaf R-Designo VL DB GG G

see diagrams:

4000 / 4001 / 4004 / 4005 / 4008 /

4009 / 4012 / 4013 / 4016 / 4017

	Dummy mullion toggle lever		Dummy mullion toggle lever		UV	
	DIN R	DIN L	DIN R	DIN L		
	No.	No.	No.	No.		
	Dummy mullion lock gear					
	Profile series FF, WB	293455	293455	293455	293455	10 pc(s)
	Profile series WI	293456	293456	293456	293456	10 pc(s)
	D hinges	293708	293709	293708	293709	1 pc(s)
	Additional locking horizontal	/	/	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723^{31, 51}	293723^{31, 51}	293723^{31, 51}	293723^{31, 51}	10 pc(s)
	Reinforcement set 80-150 kg	293630¹¹	293631¹¹	293630¹¹	293631¹¹	10 pc(s)

G = Active leaf/S = Inactive leaf

¹¹ Reinforcement for sash weight > 80 kg

- Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³¹ Turn restrictor set up to sash width < 1200 optional

- Minimum sash width 490 mm max. opening angle 94°.

⁵¹ Alternatively:

- 293720 Damped opening restrictor size 1

- Minimum sash width 665 mm for max. opening angle (63°), or

- 293721 Damped opening restrictor size 2

- Minimum sash width 735 mm for max. opening angle (90°), for additional horizontal locking

- Minimum sash width 1100 mm for max. opening angle (90°).

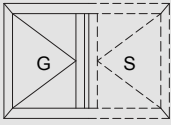
- Larger sash widths are required for smaller opening angles.

Inward opening
Turn fittings max. 150 kg, hinges adjustable – concealed
Active leaf dummy mullion gear

R-Designo VL DB EG G
R-Designo VL DB GG G

see diagrams:

4000 / 4001 / 4004 / 4005 / 4008 /
4009 / 4012 / 4013 / 4016 / 4017

	Lock	293462	293462	293462	293462	10 pc(s)
	D hinges	293708	293709	293708	293709	1 pc(s)
	Additional locking horizontal	/	/	2x 293954	2x 293954	10 pc(s)
	Gear lock	293867	293867	293867	293867	10 pc(s)
	Turn restrictor set without brake	293723^{9, 54}	293723^{9, 54}	293723^{9, 54}	293723^{9, 54}	10 pc(s)
	Reinforcement set 80-150 kg	293630¹¹	293631¹¹	293630¹¹	293631¹¹	10 pc(s)

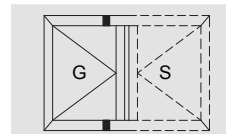
G = Active leaf/S = Inactive leaf

⁹ Turn restrictor set up to sash width < 1200 optional
– Minimum sash width 465 mm, max. opening angle 94°.

¹¹ Reinforcement for sash weight > 80 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

⁵⁴ Alternatively:

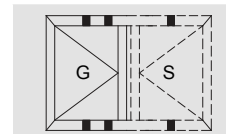
- 293720 Damped opening restrictor size 1
– Minimum sash width 635 mm for max. opening angle (63°), or
- 293721 Damped opening restrictor size 2
– Minimum sash width 705 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1230 mm for max. opening angle (90°).
- Larger sash widths are required for smaller opening angles.



D central lock

DIN R	DIN L
No.	No.

293462	293462
293708	293709
293867	293867
293723^{9, 54}	293723^{9, 54}
293630¹¹	293631¹¹



D central lock

DIN R	DIN L
No.	No.

293462	293462
293708	293709
293867	293867
293723^{9, 54}	293723^{9, 54}
293630¹¹	293631¹¹

UV
10 pc(s)
1 pc(s)
10 pc(s)
10 pc(s)
10 pc(s)
10 pc(s)

■ **Gear**

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

Inward opening

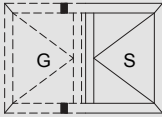
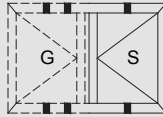
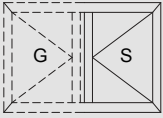
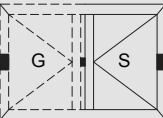
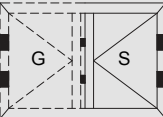
Turn fittings max. 150 kg – concealed

Inactive leaf dummy mullion with handle on active and inactive leaf

R-Designo VL DK EG 2G
+ active leaf R-Designo VL DK EG 2G
R-Designo VL DK GG 2G
+ active leaf R-Designo VL DK GG 2G

see diagrams:

3980 / 3981 / 3984 / 3985 /
3986 / 3988 / 3989 / 3990

										
		Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 500 mm				
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	No.	No.	UV
	Dummy mullion lock gear	293957	293957	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}
Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293631 ¹¹	10 pc(s)
	Dummy mullion lock gear	293957	293957	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	293954	293954	293954	293954	293954	293954	293954	293954	10 pc(s)
	Additional locking vertical	/	/	/	/	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293631 ¹¹	10 pc(s)
	Dummy mullion lock gear	293957	293957	293957	293957	293957	293957	293957	293957	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
	Stop wedge	293052	293052	293052	293052	293052	293052	293052	293052	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293727	293728	293727	293728	293727	293728	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Coupler component set for driving rod	293962	293962	293962	293962	293962	293962	293962	293962	10 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking horizontal	/	/	/	/	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
Turn restrictor set without brake	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	293723 ^{32, 51}	10 pc(s)
Reinforcement set 100-150 kg	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293630 ¹¹	293631 ¹¹	293631 ¹¹	10 pc(s)

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹¹ Reinforcement for sash weight > 100 kg
 – Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³² Turn restrictor set up to sash width < 1200 optional
 – Minimum sash width 490 mm max. opening angle 94°.

⁵¹ Alternatively:
 – 293720 Damped opening restrictor size 1
 - Minimum sash width 665 mm for max. opening angle (63°), or
 – 293721 Damped opening restrictor size 2
 - Minimum sash width 735 mm for max. opening angle (90°), for additional horizontal locking
 - Minimum sash width 1190 mm for max. opening angle (90°).
 – Larger sash widths are required for smaller opening angles.

The table is continued on the next page!

■ Gear

Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

Inward opening
Turn fittings max. 150 kg – concealed
Active leaf dummy mullion with handle on active and inactive leaf

R-Designo VL DK EG 2G
R-Designo VL DK GG 2G

see diagrams:
**3980 / 3981 / 3984 / 3985 /
3986 / 3988 / 3989 / 3990**

		Turn/tilt fitting, tilt position locked Rebate hinge		Turn/tilt fitting, tilt position locked Stay 500 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		Turn/tilt fitting, tilt position locked Stay 735 mm		
		DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	DIN R	DIN L	
		No.	No.	No.	No.	No.	No.	No.	No.	UV
	D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Turn restrictor set without brake	293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
	Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)
		D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	293461
Angle fastener		293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
D-DK hinges – connectable		293632	293633	/	/	/	/	/	/	1 pc(s)
D-DK stay set		/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
D-DK corner pivot rest		/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
Gear lock		293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
Additional locking horizontal		2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
Additional locking vertical		293954	293954	293954	293954	293954	293954	293954	293954	10 pc(s)
Additional locking vertical		293959	293959	293959	293959	293959	293959	293959	293959	10 pc(s)
Turn restrictor set without brake		293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	
	D-DK lock dummy mullion	293461	293461	293461	293461	293461	293461	293461	293461	10 pc(s)
	Angle fastener	293951	293951	293951	293951	293951	293951	293951	293951	10 pc(s)
	D-DK hinges – connectable	293632	293633	/	/	/	/	/	/	1 pc(s)
	D-DK stay set	/	/	293711	293712	293713	293714	293713	293714	1 pc(s)
	D-DK corner pivot rest	/	/	293725	293726	293725	293726	293725	293726	1 pc(s)
	Gear lock	293867	293867	293867	293867	293867	293867	293867	293867	10 pc(s)
	Additional locking horizontal	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	4x 293954	4x 293954	10 pc(s)
	Additional locking vertical	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	2x 293954	10 pc(s)
	Additional locking vertical	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	2x 293959	10 pc(s)
	Turn restrictor set without brake	293723 34, 55	293723 34, 55	293723 34, 55	293723 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	293723 5, 34, 55	10 pc(s)
Reinforcement set 100-150 kg	/	/	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	293630 ¹²	293631 ¹²	10 pc(s)	

G = Active leaf/S = Inactive leaf

⁵ Turn restrictor set from sash width ≥ 1200 mm.

¹² Reinforcement for sash weight > 100 kg
– Note: Do not use reinforcement for a sash weight ≤ 80 kg.

³⁴ Turn restrictor set up to sash width < 1200 optional
– Minimum sash width 540 mm max. opening angle 94°.

⁵⁵ Alternatively:
– 293720 Damped opening restrictor size 1
– Minimum sash width 710 mm for max. opening angle (63°), or
– 293721 Damped opening restrictor size 2
– Minimum sash width 780 mm for max. opening angle (90°), for additional horizontal locking
– Minimum sash width 1185 mm for max. opening angle (80°).
– Larger sash widths are required for smaller opening angles.

■ Gear

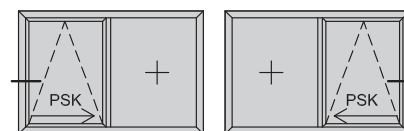
Article	No.	UV	Note
Mortice bolt	293860	10 pc(s)	Additional window handle, see product range
Connector set	293865	10 pc(s)	Additional geared handle, see product range

FRAME⁺ 90 WI/WB/WB-T

Selection tables parallel tilt and slide door

Inward opening

Parallel slide and tilt fitting 150 kg – with assisted opening



with mullion:

R-968 150 mZ GG

Dummy mullion:

R-968 150 mZ GG ST

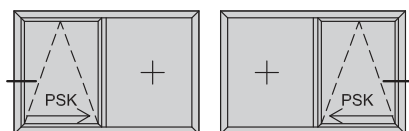
see diagrams:

5612 / 5614

	Sash width 940 to 1100 mm		Sash width 1101 to 1350 mm		Sash width 1351 to 1600 mm		UV
	Handle on the right	Handle on the left	Handle on the right	Handle on the left	Handle on the right	Handle on the left	
	No.	No.	No.	No.	No.	No.	
Parallel slide and tilt basic fitting	291802	291803	291802	291803	291802	291803	1 pc(s)
Rail set							
Colour silver EV 1	291840	291840	291842	291842	291844	291844	1 pc(s)
White RAL 9016	291841	291841	291843	291843	291845	291845	1 pc(s)

■ Gear

Article	No.	Note
Turn handle with gear	see product range	–



Inward opening
Parallel slide and tilt fitting 200 kg – with assisted opening

with mullion:

R-968 200 mZ GG

Dummy mullion:

R-968 200 mZ GG ST

see diagrams:

5622 / 5624

	Sash width 940 to 1600 mm		Sash width 1601 to 2000 mm		PU
	Handle on the right	Handle on the left	Handle on the right	Handle on the left	
	No.	No.	No.	No.	
Parallel slide and tilt basic fitting	291804	291805	291804	291805	1 pc(s)
Tandem bogie	291806 ¹	291807 ¹	291806 ^{1,2}	291807 ^{1,2}	1 pc(s)
Rail set					
Colour silver EV 1	291854	291854	291856	291856	1 pc(s)
White RAL 9016	291855	291855	291857	291857	1 pc(s)

¹ Necessary for sash weight ≥ 180 kg

² Necessary for sash width ≥ 1800 mm

■ Gear

Article	No.	Note
Turn handle with gear	see product range	–

