

3D-PLUS Door Hinge

Hinge executions

Fixation options

Accessories



Table of contents

General information Page 3

Hinge executions..... Page 4

Fixation options..... Page 6

Accessories Page 8

Appendix Page 10

 Exploded view components, adjustment Page 10

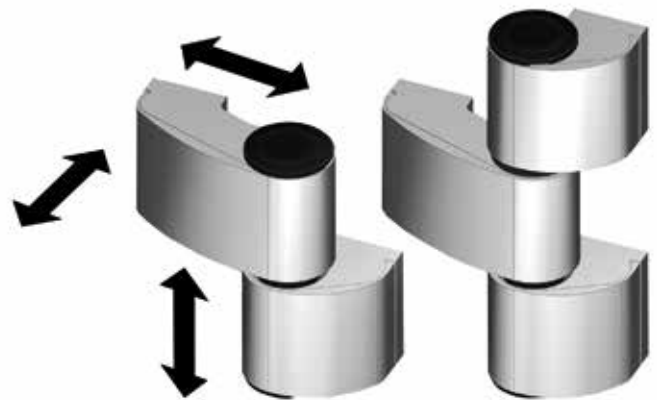
 General proposals for hinge configuration Page 11

Flexible in all respects

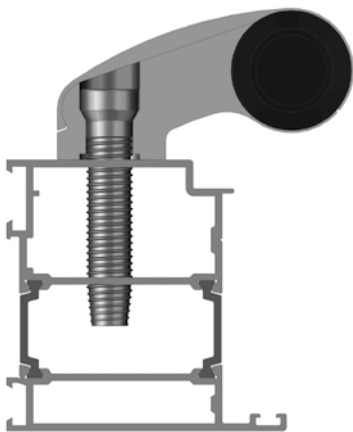
The further developed 2 and 3-piece door hinge, 3D-PLUS is impressive due to its sophisticated design and its many potential applications for doors with a leaf weight of up to max. 180 kg.

Direct screw connection, screw inserts or counter plate: Three different fixing techniques allow for the use of virtually any profile shape.

Our 3D-PLUS door hinges are also suitable for use with anti-burglar doors: SKG**, DIN EN 1627 RC2 (WK2), DIN EN 1627 RC3 (WK3).

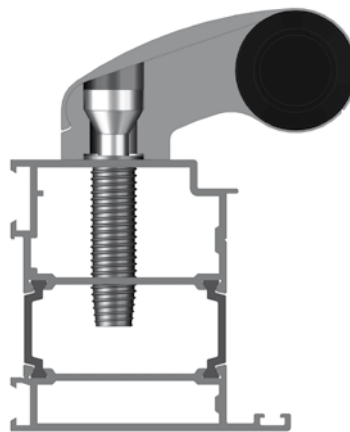


Three fixing options



Direct fixing using a screw:

- For inward and outward opening doors
- Replaces the mounting version "spacer sleeve with counter plate" for outward opening doors
- Ideal for retro-fitting or repair
- Fast assembly



Fixing with screw inserts:

- For inward and outward opening doors
- Replacement for bridging the insulating chambers with spacer sleeves
- Ideal for retro-fitting or repair
- Easy assembly



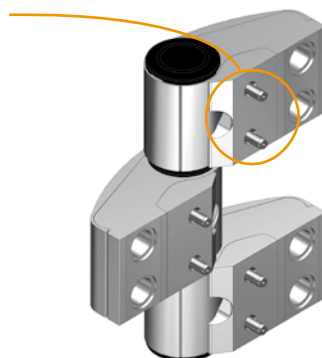
Fixing with counter plates:

- For inward opening doors
- For insulated and non-insulated profiles
- For pillar designs

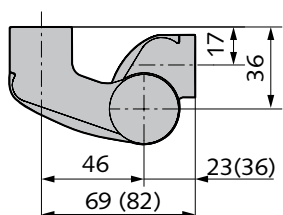
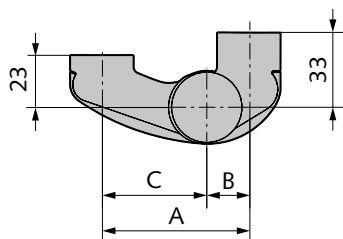
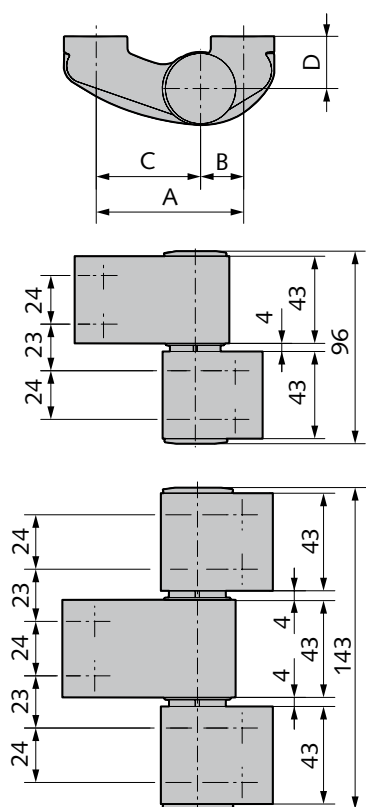
Resistance Class RC3

The use of chuck profiles hinders any breaking of the 3D-PLUS door hinges. Therefore, their resistance class increases to RC3.

3-piece hinge with interlocking anti-jemmy for anti-burglar doors.



The interlocking anti-jemmy is fixed with locking pin in the hinge part and door profile.



A	B	C	D
65	19	46	23
78	19	59	23
92	46	46	23
105	46	59	23
65	19	46	36
78	19	59	36

Door hinge 3D-PLUS



- stepless adjustable in 3 dimensions
- tested according to EN 1935, class 13/14
- sash weight max. 180kg*
- left/right hand usable
- screwable/maintenance free

2-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.070.2365.---	2-part	23	65
04.070.2378.---	2-part	23	78
04.070.2392.---	2-part	23	92
04.070.2315.---	2-part	23	105
04.070.3665.---	2-part	36	65
04.070.3678.---	3-part	36	78

3-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.072.2365.---	3-part	23	65
04.072.2378.---	3-part	23	78
04.072.2392.---	3-part	23	92
04.072.2315.---	3-part	23	105
04.072.3665.---	3-part	36	65
04.072.3678.---	3-part	36	78

Information: Packing = 2 pieces

* see hinge configuration page 11

Door hinge 3D-PLUS for 10 mm overlap



2-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.074.2365.---	2-part	23/33	65
04.074.2378.---	2-part	23/33	78

3-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.076.2365.---	3-part	23/33	65
04.076.2378.---	3-part	23/33	78

Door hinge 3D-PLUS for post constructions



2-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.080.3669.---	2-part	36	69
04.080.3682.---	2-part	36	82

3-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.082.3669.---	3-part	36	69
04.082.3682.---	3-part	36	82

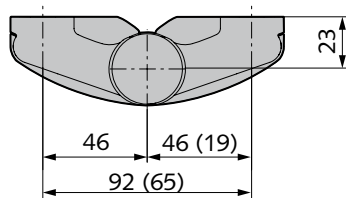
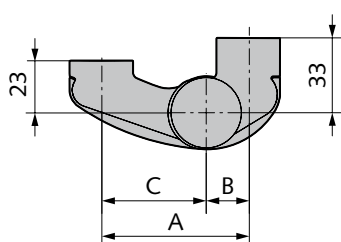
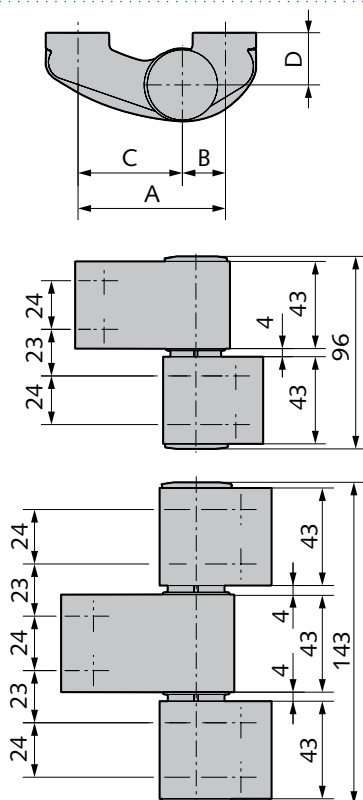
Available surfaces:

- .114 (Al E6/C-0 silver anodized)
- .154 (Al E6/C-34 dark bronze anodized)
- .198 (Al stainless steel finish)
- .255 (Al RAL 9016 powder coat)
- .299 (Al special colour powder coat)

Information:

Fixation has to be ordered separately..... page 6/7

3D-PLUS Door Hinge



Door hinge 3D-PLUS RC2

- with hardened stainless steel safety pin
- stepless adjustable in 3 dimensions
- tested according to EN 1935, class 13/14
- sash weight max. 180kg*
- left/right hand usable
- screwable/maintenance free



2-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.030.2365.---	2-part	23	65
04.030.2378.---	2-part	23	78
04.030.2392.---	2-part	23	92
04.030.2315.---	2-part	23	105

3-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.032.2365.---	3-part	23	65
04.032.2378.---	3-part	23	78
04.032.2392.---	3-part	23	92
04.032.2315.---	3-part	23	105

Information: Packing = 2 pieces

* see hinge configuration page 11

Door hinge 3D-PLUS RC2 for 10 mm frame overlap

- with hardened stainless steel safety pin



2-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.036.2365.---	2-part	23 / 33	65
04.036.2378.---	2-part	23 / 33	78

3-part

Art.-N°.	Type	Center of rotation	Axis-center distance
04.038.2365.---	3-part	23 / 33	65
04.038.2378.---	3-part	23 / 33	78

Door hinge 3D-PLUS RC3

- with interlocking anti-jemmy



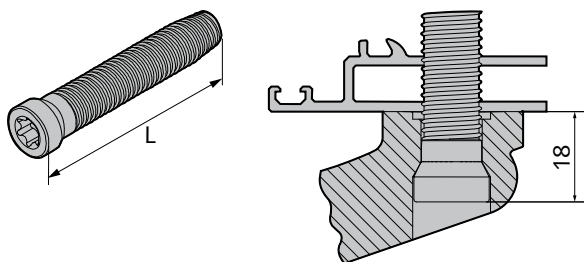
Art.-N°.	Type	Center of rotation	Axis-center distance
04.040.2365.---	3-parted	23	65
04.040.2392.---	3-parted	23	92

Available surfaces:

- .114 (Al E6/C-0 silver anodized)
- .154 (Al E6/C-34 dark bronze anodized)
- .198 (Al stainless steel finish)
- .255 (Al RAL 9016 powder coat)
- .299 (Al special colour powder coat)

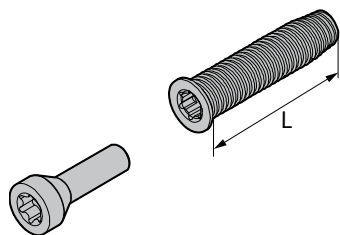
Information:

Fixation has to be ordered separately page 6/7



Direct fixation with fixation screw

Art.-N°.	L mm	Material/Surface
04.090.1068.010	68	St galvanized
04.090.1078.010	78	St galvanized
04.090.1088.010	88	St galvanized
04.090.1061.405	61	St/St V2A dull



Fixation-set anchor nut

2-part

Kit consists of:

- 4x anchor nut
- 4x countersunk screw

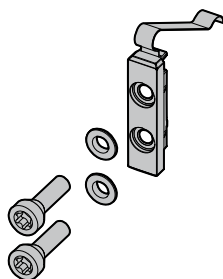
Art.-N°.	L mm	Material/Surface
04.094.0050.010	50	St galvanized
04.094.0060.010	60	St galvanized

3-part

Kit consists of:

- 6x anchor nut
- 6x countersunk screw

Art.-N°.	L mm	Material/Surface
04.095.0050.010	50	St galvanized
04.095.0060.010	60	St galvanized



Fixation-set counter plates

2-part

Kit consists of:

- 2x counter plate 20 mm width
- 4x countersunk screw
- 4x guide bushing

Art.-N°.	Material/Surface
04.097.0000.010	St galvanized

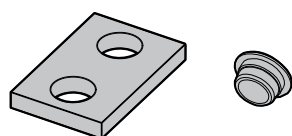
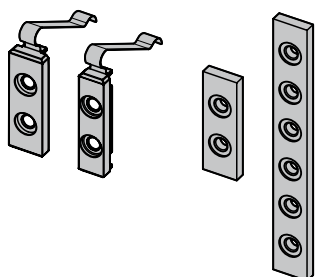
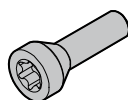
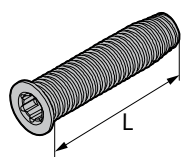
3-part

Kit consists of:

- 3x counter plate 20 mm width
- 6x countersunk screw
- 6x guide bushing

Art.-N°.	Material/Surface
04.098.0000.010	St galvanized

3D-PLUS Door Hinge



Anchor nut

Art.-N°.	L mm	Material/Surface
04.091.0050.010	50	St galvanized
04.091.0060.010	60	St galvanized

Countersunk screw

Art.-N°.	Dimension	Material/Surface
04.092.0000.012	M8 x 34	St yellow passivated
04.092.0000.405	M8 x 34	St/St V2A dull

Counterplate

Art.-N°.	Execution	Dimension	Material/Surface
04.110.0020.780	with spring	60x20x 12	Zinc cast yellow passivated
04.110.0015.780	with spring	60x15x 12	Zinc cast yellow passivated
04.110.6020.010	w/o spring	60x20x 6	St galvanized
04.110.6015.010	w/o spring	60x15x 6	St galvanized
04.110.1540.010	3prtd. w/o spring	154x20x 6	St galvanized
04.110.1545.010	3prtd. w/o spring	154x15x 6	St galvanized

Guide bushing

Art.-N°.	Material/Surface
04.111.0000.405	St/St V2A dull

Base plate for frame overlap

- with guide bushings

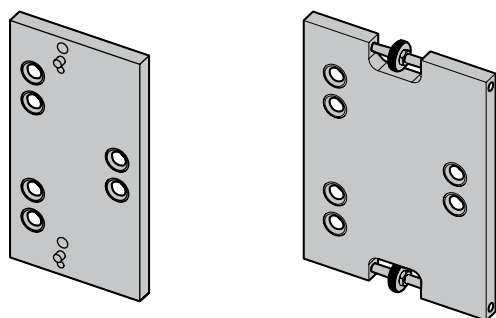
Art.-N°.	Platethickness mm
04.109.0003.---	3
04.109.0005.---	5

Available surfaces:

- .114 (Al E6/C-0 silver anodized)
- .154 (Al E6/C-34 dark bronze anodized)
- .198 (Al stainless steel finish)
- .255 (Al RAL 9016 powder coat)
- .299 (Al special colour powder coat)

Information:

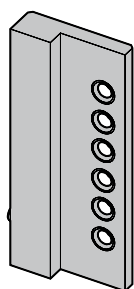
For fixation with counter plates only use steel version.



Drilling Jig for inwards and outwards opening doors

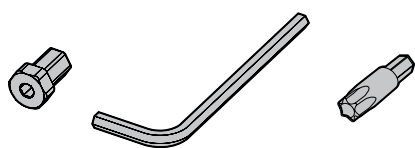
- for shadow flute 5/6/8 mm

Art.-N°.	Axis-center distance	Material/Surface
04.112.0065.105	65	Al mill finish
04.112.0078.105	78	Al mill finish
04.112.0092.105	92	Al mill finish
04.112.0105.105	105	Al mill finish



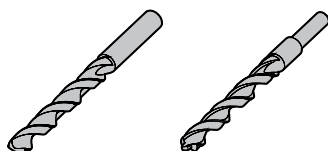
Drilling Jig for post constructions

Art.-N°.	Shadow groove	Material/Surface
04.112.0005.105	5	Al mill finish
04.112.0006.105	6	Al mill finish
04.112.0008.105	8	Al mill finish



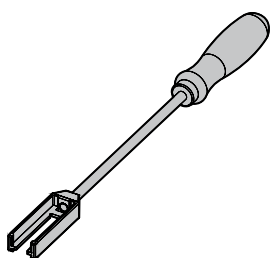
Tools for mounting/adjustment

Art.-N°.	Description	Material/Surface
04.115.0001.705	Adapter SW 10/14	Zinc cast raw
04.115.0010.005	Allen key SW 2,5	St bright
04.115.0011.005	Allen key SW 5	St bright
04.119.0050.005	TORX T50 Bit	St bright



Drills

Art.-N°.	Description	Material/Surface
04.116.0020.005	Drill Ø 11	St bright
04.116.0021.005	Step drill Ø5 to Ø11	St bright

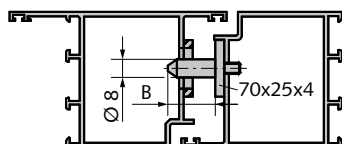
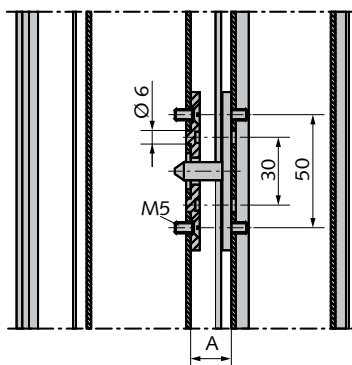


Assembling stick

- for insertion of the counter plate

Art.-N°.

04.118.0041.000



Security bolt

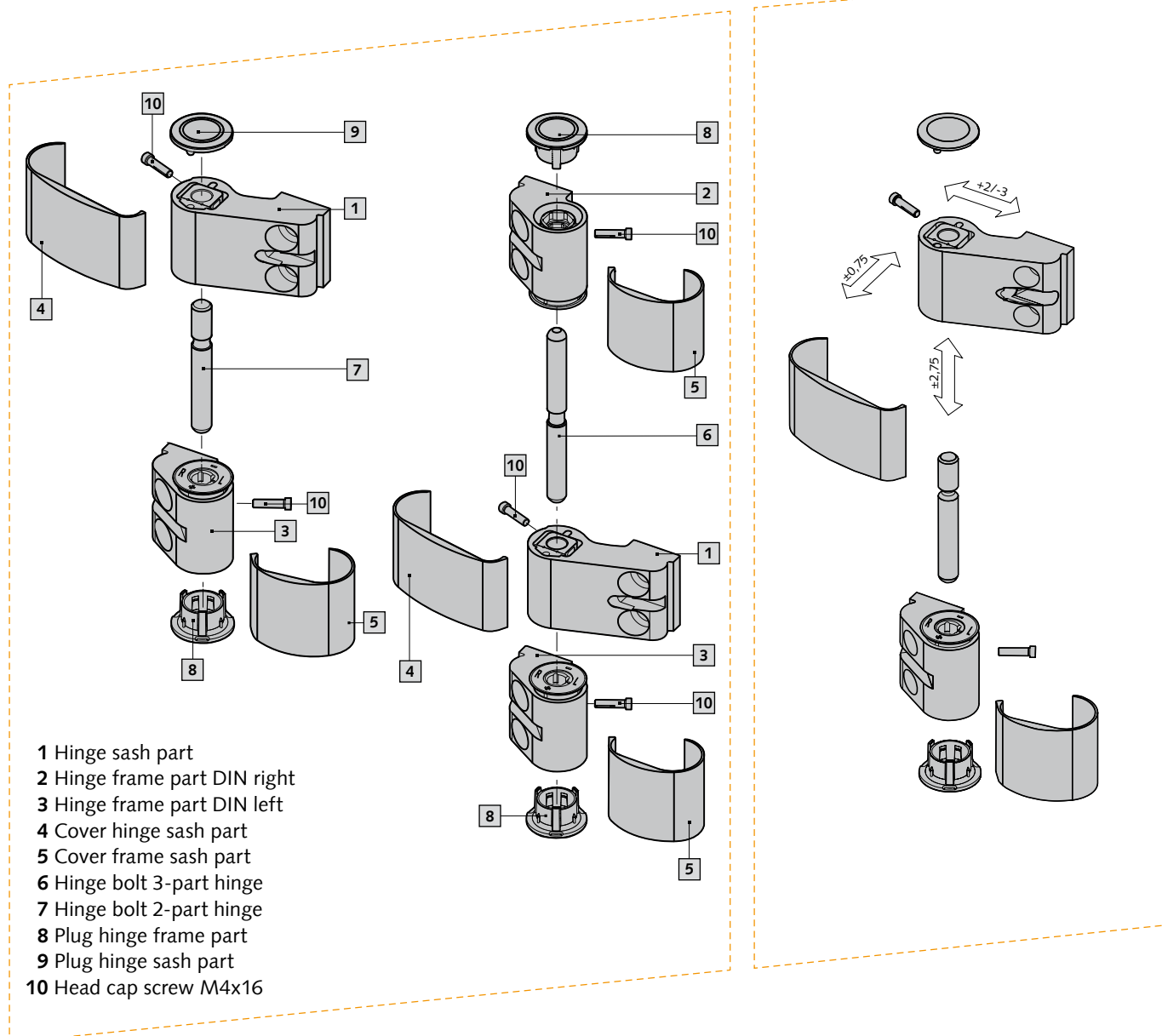
- 2-part
- with locking plate, hinge-side

Art.-N°.	A mm	B mm	Material/Surface
04.950.1116.405	11 - 16	17	St/St V2A dull
04.950.1722.405	17 - 22	21	St/St V2A dull
04.950.2326.405	23 - 26	25	St/St V2A dull

Exploded view

Components

Adjustment



General proposals for hinge configuration

■ 3D-door hinges, center of rotation 23/36 mm

	normal use		intense use		very intense use	
Object	Single-family house Apartment houses		Apartment houses Public buildings		Public buildings Schools, hospitals	
Accessories	—		Door closer Door coordinator device Door buffer		Door stay fasteners Rotary drive	
FB max. mm	<1.000	1.000 - 1.300	<1.000	1.000 - 1.300	<1.000	1.000 - 1.300
Weight max. kg	120	150	160	180	160	180
Type	A	B	A	B	A	B
Hinge configuration	 2 pieces	 3 pieces	 2 pieces	 3 pieces	 3 pieces	 4 pieces
Sash height min. 1900 mm / max. 2600 mm						

*) Additional middle-hinge for sash height >2.000 mm, on request.

allowed maximum sash weight FG

Sash height FH	2600	B	150	150	150	150	149	138
		A	120	120	120	—	—	—
	2500	B	150	150	150	150	144	132
		A	120	120	120	—	—	—
	2400	B	150	150	150	144	132	122
		A	120	120	120	—	—	—
	2300	B	150	150	150	144	132	122
		A	120	120	120	—	—	—
	2200	B	150	150	150	138	126	116
		A	120	120	120	—	—	—
	2100	B	150	150	145	131	120	111
		A	120	120	120	—	—	—
2000	B	150	150	138	125	115	106	
	A	120	120	120	—	—	—	
1900	B	150	145	131	118	109	100	
	A	120	120	114	—	—	—	
			800	900	1000	1100	1200	1300
		Sash weight FB						

allowed maximum sash weight FG

Sash height FH	2600	B	180	180	180	180	180	180
		A	160	160	160	—	—	—
	2500	B	180	180	180	180	180	177
		A	160	160	160	—	—	—
	2400	B	180	180	180	180	180	170
		A	160	160	160	—	—	—
	2300	B	180	180	180	180	176	162
		A	160	160	160	—	—	—
	2200	B	180	180	180	180	169	155
		A	160	160	160	—	—	—
	2100	B	180	180	180	176	161	148
		A	160	160	160	—	—	—
	2000	B	180	180	180	167	153	141
		A	160	160	160	—	—	—
1900	B	180	180	175	159	146	134	
	A	160	160	152	—	—	—	
		800	900	1000	1100	1200	1300	
		Sash weight FB						

Followings basics are deciding for an exact hinge configuration:

Profile system, sash size, sash weight, wall thickness of the profile, hinge fixation, opening of the door, type of use. To determine the allowed door sizes and weights, the guide lines and processing indications of the profile manufacturer must be respected! In this hinge configuration proposals a profile wall thickness of min. 1,8mm was used as a basic. For technical request please contact WSS.



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