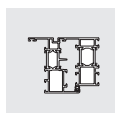
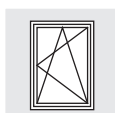


ALU axxent PLUS-DK

Assembly instructions



BD3.5

Single sash concealed square turn and tilt

Aluminium eurogroove 15/20

Chamber dimension 21

Versions A0004/A0006/A0022

Hinge clearance (BD) ≥ 3.5

Mishandling device on the gear (FBS-G)

Vertical tilt point (KPS)

Size range

		Windows	Patio doors
Sash width	(mm)	380 – 1600	380 – 1300
Sash height	(mm)	550 – 2000	2000 – 2400
Sash weight	(kg)	max. 100/130	max. 100/130

The following application diagrams are valid:

-max. 100 kg

document Nr.: H58.AWDLS012EN

-max. 130 kg

document Nr.: H58.AWDLS013EN

Opening angle:

- $\leq 110^\circ$

The following documentation is required:

-Profile information ALU20

document Nr.: H45.ALUS001EN

-ALU axxent PLUS-DK/TBT assembly instructions

document Nr.: H39.axntLS001EN

-ALU Maintenance instructions

document Nr.: H49.ALUS001EN

-ALU Service instructions

document Nr.: H47.ALUS001EN

-ALU Operating instructions

document Nr.: H47.ALUS002EN

Please observe:

Guidelines/notes on the product and on liability (VHBH directive as well as the further applicable documents)!

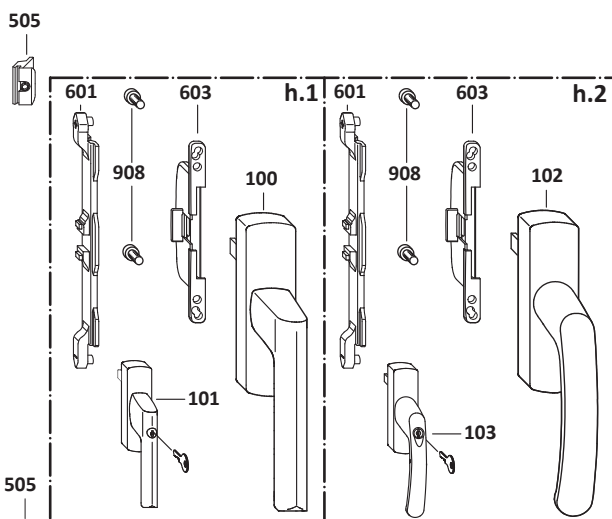
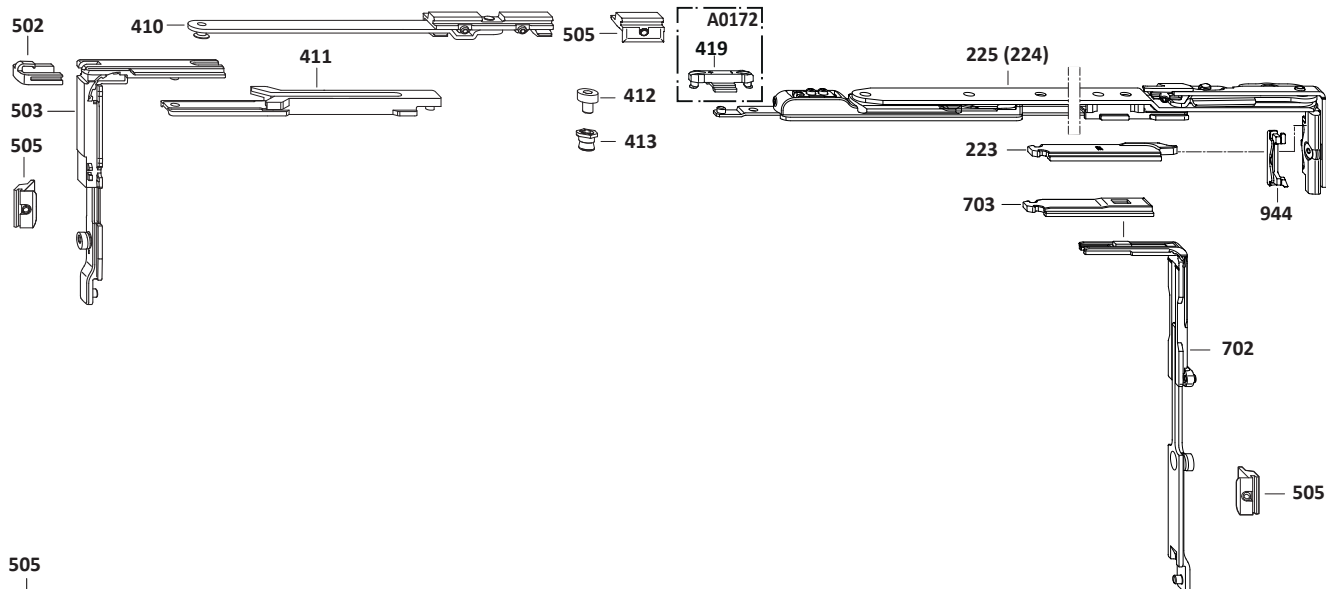
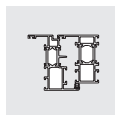
Specifications from the profile manufacturers or system owners for windows and patio doors!



See SIEGENIA download portal for all documentation!

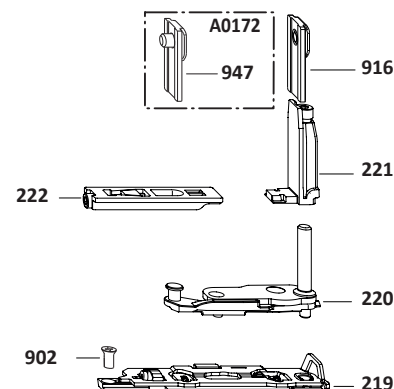
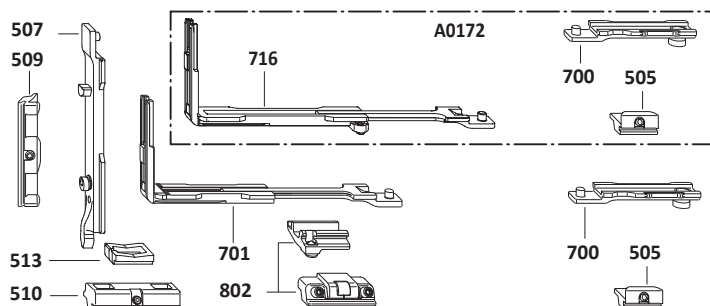
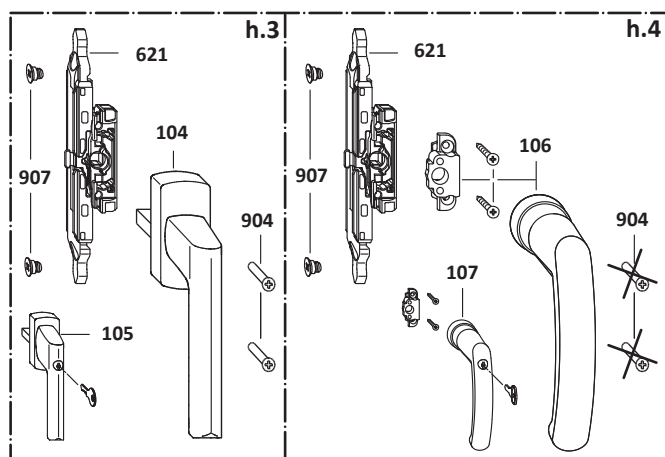
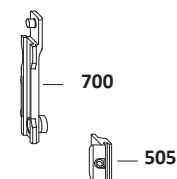
Hardware list

Single sash square turn and tilt
Hinge side ALU axxent PLUS



Torque and tooling information

Items	Nm ($\pm 0,25$)	
410, 505, 509, 510, 702, 716, 802	1,5	⬡ 2,5
224, 225	2,5	⬡ 2,5
219	3	⬡ 2,5
908, 916, 947	2,5	⬡ 4
412	4	⬡ 4
902, 904, 907	2,7	⊗ PZ2
106, 107	2,5	⊕ PH2





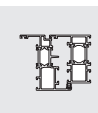
Hardware list

Single sash square turn and tilt
Hinge side ALU axxent PLUS

ALU axxent PLUS

FBS-G

	Item	Pieces	Material description		Material number	VE	Material number	VE
h.1	100	1	ALU Si-line handle	Only use in combination with coupling set	See ALU handle overview in the SIEGENIA download portal			
	101		ALU Si-line lockable handle					
h.2	102		ALU Globe handle					
	103		ALU GLOBE lockable handle					
h.3	104		TITAN handle	Only use in combination with gear set	□ 7 mm x 25 mm, cam Ø 10 mm only use in combination with gear set			
	105		TITAN lockable handle					
h.4	106		ALU Globe RR handle		See Handle ALU Globe RR in the SIEGENIA download portal			
	107		ALU Globe RR lockable handle					
		1	BS ALU axxent PLUS-DK A0004 RH size 1	FB 600 ≤ 100 kg	MMBS0281-10001_	1	MMBS0281-10002_	10
			A0004 LH size 1		MMBS0282-10001_	1	MMBS0282-10002_	10
			A0004 RH size 2	FB > 600	MMBS0311-10001_	1	MMBS0311-10002_	10
			A0004 LH size 2		MMBS0312-10001_	1	MMBS0312-10002_	10
			A0006 RH size 1	FB 600 ≤ 100 kg	MMBS0291-10001_	1	MMBS0291-10002_	10
			A0006 LH size 1		MMBS0292-10001_	1	MMBS0292-10002_	10
			A0006 RH size 2	FB > 600	MMBS0321-10001_	1	MMBS0321-10002_	10
			A0006 LH size 2		MMBS0322-10001_	1	MMBS0322-10002_	10
	219	1	Bottom hinge right/left ALU axxent PLUS	Installation frame				
	220	1	Bottom hinge right/left ALU axxent PLUS	Installation sash				
	221	1	Sash hinge BSU right/left ALU axxent PLUS					
	222	1	Guiding piece BSU ALU axxent PLUS					
	223	1	Deadbolt BS0 right/left ALU axxent PLUS	omitted for MV (replacement by item 703)				
	224	0...1	Top stay size 1 right/left ALU axxent PLUS-DK					
	225	0...1	Top stay size 2 right/left ALU axxent PLUS-DK					
	944	0...1	Accessory set ALU axxent PLUS A0022	Only use in combination with BS ALU axxent PLUS A0006	MZBS0180-10001_	1	MZBS0180-10006_	100
		0...1	Accessory set ALU axxent PLUS	> 100 kg	-	-	MZBS0130-00003_	20
	902	1	Countersunk screw M5 x 13					
	916	1	Long stop					
		0...1	Accessory set ALU axxent PLUS A0172	with recessed sash groove (see page 5, fig. 2)	-	-	MZBS0190-00003_	20
	902	1	Countersunk screw M5 x 13					
	947	1	Stop A0172					
		0...1	ALU additional stay	FB > 1250 FB > 1020 > 100 kg	857076	1	247006	10
	410	1	Additional stay					
	411	1	Striker plate					
	412	1	Locking cam					
	413	1	Eccentric rivet					
		1	ALU DK FBS-G KPS locking side		MMVS0250-10001_	1	MMVS0250-10003_	20
	-	1	Locking bolt DK	not required				
	502	1	Clamping piece EUL					
	503	1	VSO corner drive					
	505	1	Striker					
	507	1	Tilt lock cam 10					
	509	1	E striker cam 10					
	510	1	Tilt locking part					
	513	1	Run-up block					
h.1 h.2		0...1	Coupling set ALU FBS-G	Only use in combination with h.1/h.2 (see page 4 for note on rebate height (USH) and for dimension Y)	MMKL0030-10001_	1	MMKL0030-10003_	20
			Y ≥ 9 < 10		MMKL0010-10001_	1	MMKL0010-10003_	20
			Y ≥ 10		MMKL0040-10001_	1	MMKL0040-10003_	20
	601	1	Coupling bracket					
	603	1	Anti-mishandling device					
	908	2	Cheese head screw M5 x 12					

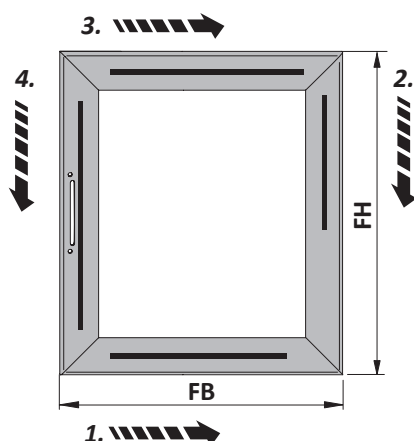


	Item	Pieces	Material description		Material number	VE	Material number	VE
h.3 h.4		0...1	Gear set ALU FBS-G	Only use in combination with h.3/h.4 (see SIEGENIA download-portal)	MMGI0080-10001_	1	MMGI0080-10003_	20
	621	1	ESG M6 FBS					
	904	2	Countersunk screw M5 x 35					
	907	2	Coupling screw M6					
depending on system		0...1	MV ALU-VS/BS axxent PLUS	FB > 1250	MMM0060-10001_	1	MMM0060-10003_	20
	505	3	Striker					
	700	1	Slider					
	702	1	Corner drive axxent BSO ALU axxent PLUS					
	703	1	Coupling piece BSO MV ALU axxent PLUS					
		0...1	MV ALU-DK/TBT (VSU)	FB > 1250	857045	1	246979	20
	505	2	Striker					
	700	1	Slider					
Recessed groove dependent on system		0...1	MV ALU-DK/TBT A0172	FB > 1250 with recessed sash groove from a width > 13.5 (see page 5, fig. 4)	MMM0050-10001_	1	MMM0050-10003_	20
	505	2	Striker					
	700	1	Slider					
	716	1	Corner drive VSU/BSO A0172					
	419	0...1	MV stay striker	FB > 600 only use with top stay size 2 RH/LH ALU axxent PLUS-DK (see pg. 5).	MXSK0010-10001_	1	MXSK0010-10003_	20

Accessories

	802	0...1	Sash lifter ALU	see SIEGENIA download-portal	MMFH0010-10001_	1	MMFH0010-10003_	20
	915	0...1	ALU handle support	Only use for h.1/h.2	-	-	(see table)	200
	-	0...1	Adjusting piece AV grey (± 0.5)	see ALU maintenance instructions	-	-	MBDR0030-09705_	50

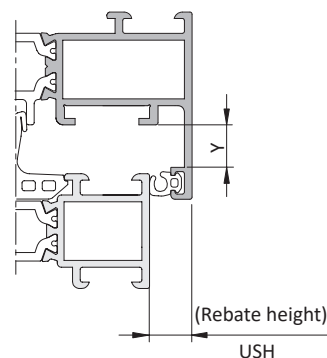
Observe assembly sequence!

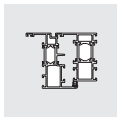
Design versions for coupling set
(item 601-603-908) (h.1/h.2)

sequence of installation in the sash:

- without centre lock (3. -4.)
- with centre lock (1. -2. -3. -4.)

USH (mm)	Y (mm)	Material number
7 - 10	≥ 9 < 10	MMKL0030-10003_
	≥ 10	MMKL0010-10003_
12	-	MMKL0040-10003_





Assembly and installation instructions

Single sash square turn and tilt
Hinge side ALU axxent PLUS

ALU axxent PLUS

FBS-G

Assembly of the bottom hinge (219) at BSU (fig. 1)



Note: grease bottom hinge (219) before hanging the sash!

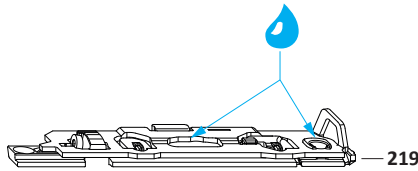


Fig. 1

Assembly of the corner drive VSU A0172 (item 716) to the VSU (fig. 5)



Note: For recessed sash groove from a width of > 13.5 mm and a recess of $- 0.5$ mm to $- 3$ mm, use "MV ALU-DK/TBT A0172"!

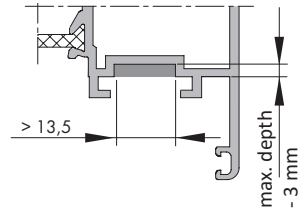


Fig. 4



Note: for recessed sash groove (A0172) > 15 mm width and a recess from $- 0.5$ mm to $- 3$ mm (fig. 2) use "Accessory set ALU axxent PLUS A0172" (item 902 and item 947)!

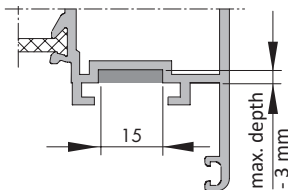
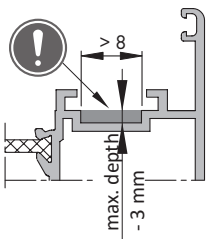
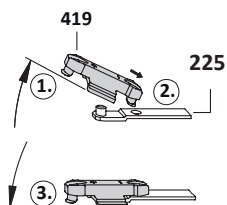


Fig. 2

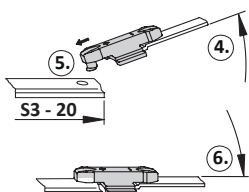
Assembly instructions for MV stay striker (item 419) with top stay size 2 RH/LH ALU axxent PLUS (225) and operating rod S3 (fig.3).



Note: For recessed sash groove (A0172) from a width of > 8 mm and a recess of $- 0.5$ mm to $- 3$ mm, use MV stay striker (419) with top stay size 2 RH/LH ALU axxent PLUS (observe sequence 1 to 6).



Note: If necessary, couple the MV stay striker (419), also for neutral versions, as an additional locking point (as shown in the adjacent figure) with top stay size 2 RH/LH ALU axxent PLUS.



Note: when coupling operating rod S3 with MV stay striker (419) and top stay size 2 RH/LH ALU axxent PLUS, shorten operating rod S3 by 20 mm.

Fig. 3

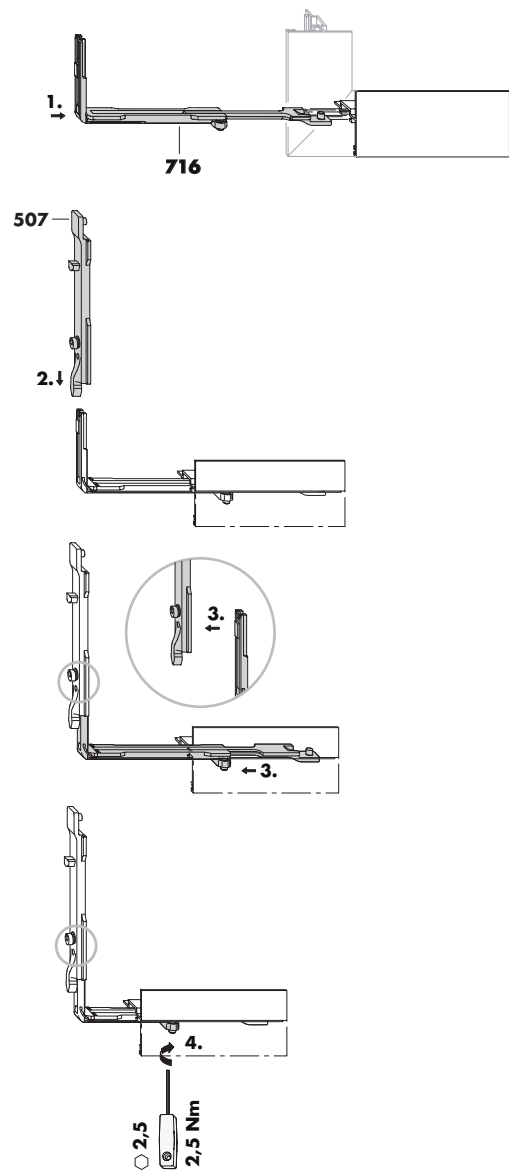
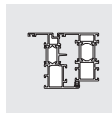
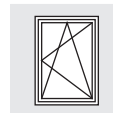


Fig. 5



ALU axxent PLUS-DK/TBT assembly instructions see Document Nr.: H39.axntLS001EN

ASSEMBLY INSTRUCTIONS

SIEGENIA[®]
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ALU

axxent PLUS

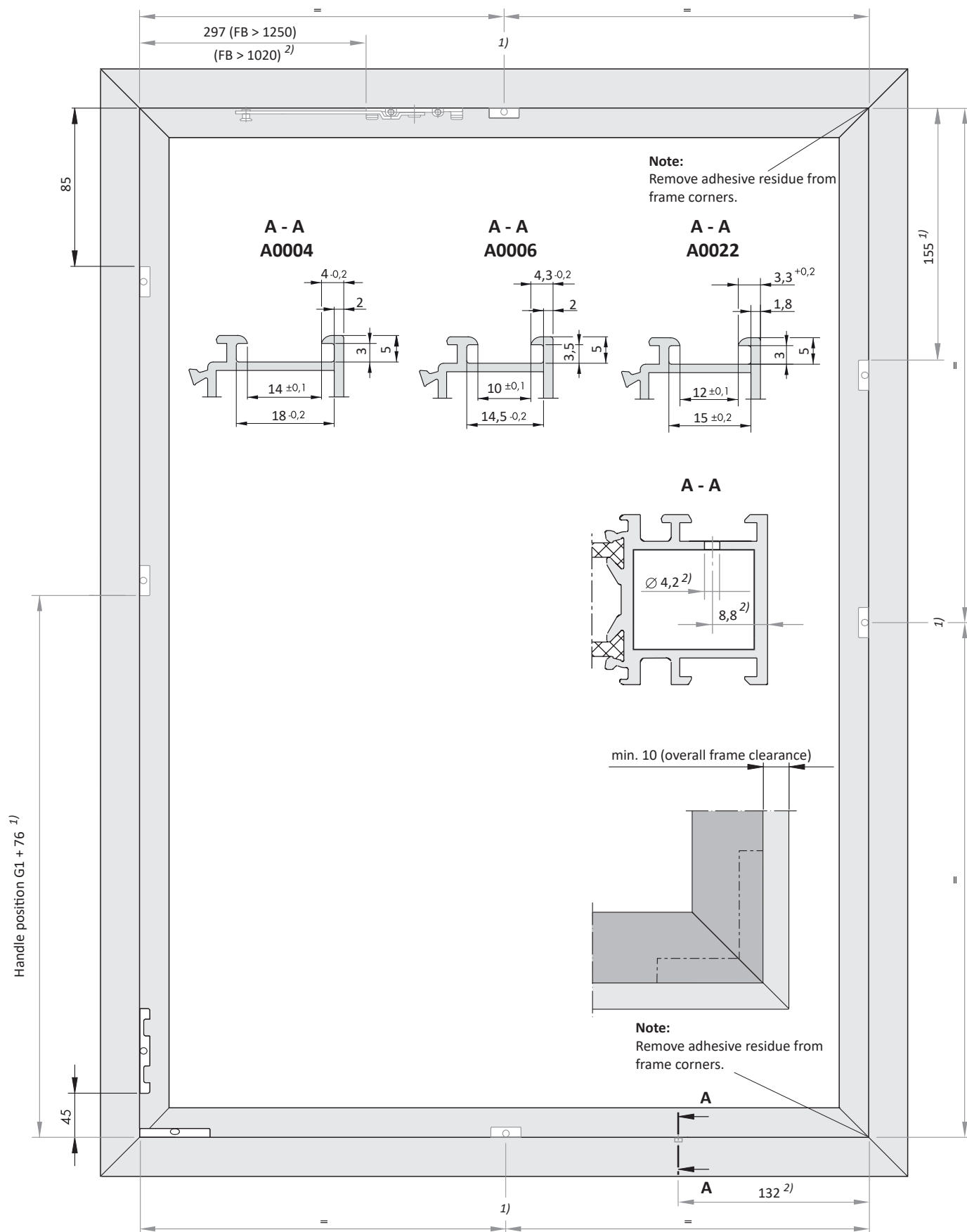
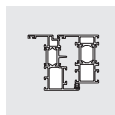
Assembly and disassembly instructions:
ALU axxent PLUS-DK/TBT

Window systems

Door systems

Comfort systems





1) with MV

2) > 100 kg