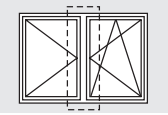
ALU secondary sash locking sides

Assembly instructions A0004 FBS-EUL





2-sash square turn / turn and tilt

Aluminium eurogroove 15/20

Chamber dimension 21

For anti-mishandling device (primary sash) on the corner drive (FBS-EUL)

Version A0004 with secondary sash: DS/A

Version A0004 with secondary sash shoot bolt: DS/K

For vertical tilt point (KPS)

Size range

		min.	max.
Sash width primary sash (FB 1)	(mm)	...[1)]	1250
Sash width secondary sash (FB 2)	(mm)	...[1)]	1250
Sash height	(mm)	710/840 [2)]	2400
For fitting programmes: ALU 2200, ALU 5100, ALU 5200, ALU axxent PLUS	The size ranges and diagrams for the relevant fitting programmes are applicable!		

1) hardware-dependent *2) for version DS/A (secondary sash gear)*

The following documentation is required:

-profile information ALU20	Document Nr. H45.ALUS001EN
-assembly instructions ALU 2200-DK/D*	Document Nr. H48.2200LS003EN
-assembly instructions ALU 5100-DK FBS-EUL	Document Nr. H48.5100LS001EN
-assembly instructions ALU 5100-D*	Document Nr. H48.5100LS005EN
-assembly instructions ALU 5200-DK FBS-EUL BD 3,5	Document Nr. H48.5200LS001EN
-assembly instructions ALU 5200-D BD 3.5*	Document Nr. H48.5200LS005EN
-assembly instructions ALU 5200-DK FBS-EUL BD 5	Document Nr. H48.5200LS014EN
-assembly instructions ALU 5200-D BD 5*	Document Nr. H48.5200LS010EN
-assembly instructions ALU axxent PLUS-DK FBS-EUL	Document Nr. H48.axntLS007EN
-assembly instructions ALU axxent PLUS-D*	Document Nr. H48.axntLS018EN

see page 6 for further information.

* use with hinge side „D“ only in secondary sash!

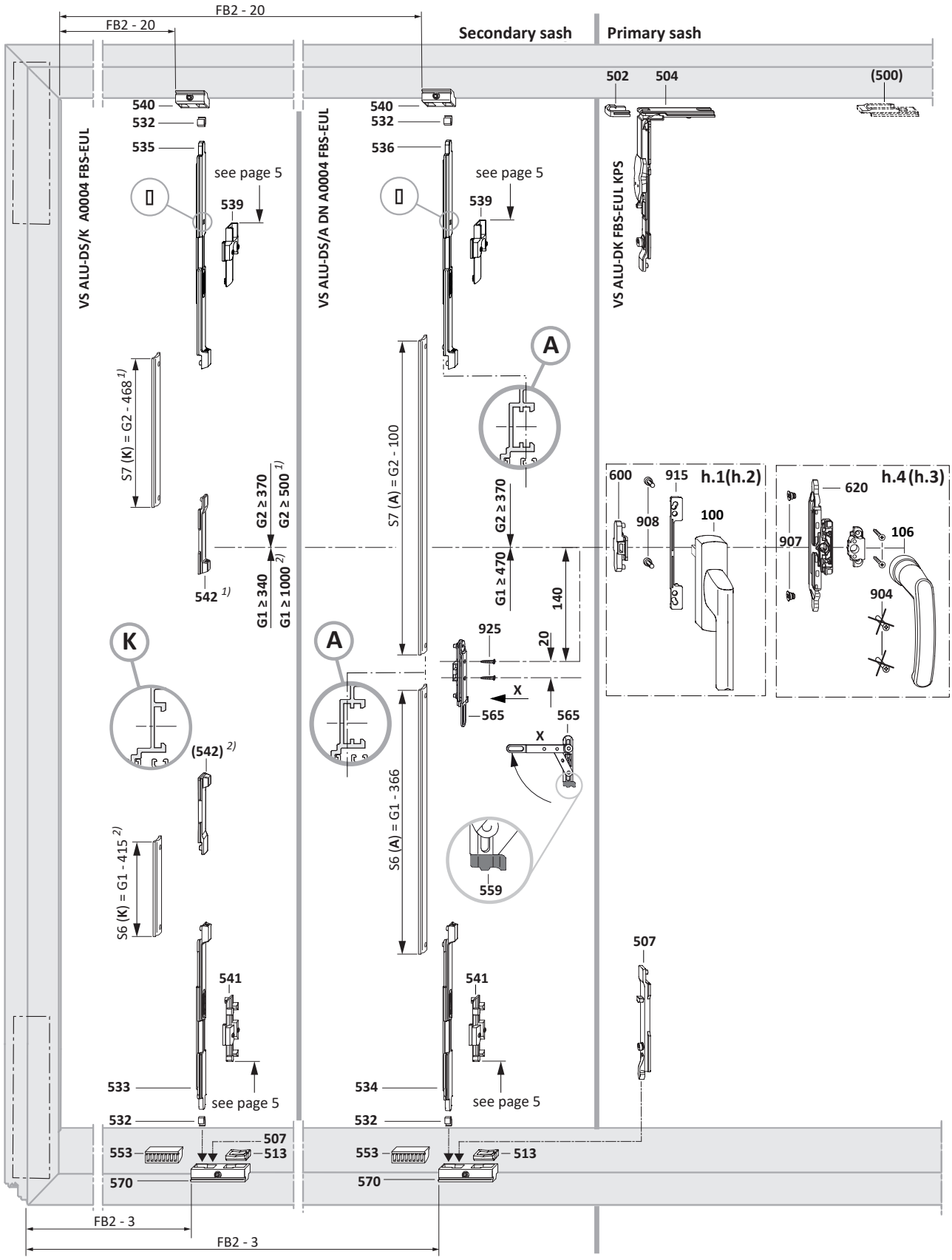
Please observe:

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 overview

2-sash square turn/turn and tilt
locking sides ALU for FBS-EUL



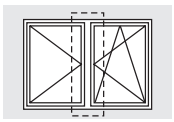
*1) For activation of the shoot bolt VSO (item **535**) by means of locking element (item **542**).*
*2) For activation of the shoot bolt VSU (item **533**) by means of locking element (item **542**).*

Figures show version A.1. Illustration for A.2 accordingly.
For further information and explanations see pages 3 - 5!

Torque and tooling information

Items	Nm (± 0.25)	
539, 540, 541, 570	1.5	⬡ 2.5
908	4	⬡ 4
904, 907	2.7	✱ PZ2
925	2.5	AW 20





Hardware list

2-sash square turn/turn and tilt
locking sides ALU for FBS-EUL

ALU VS

A0004 A/K

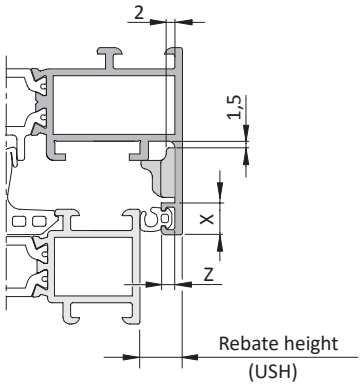
	Item	Pieces	Material description		Material number	VE	Material number	VE
h.1	100	1	**ALU Si-line handle**	Only use in combination with coupling set	See handle overview in SIEGENIA download portal			
h.2	no illus.		**ALU Globe handle**					
h.3	no illus.		**TITAN handle**	Only use in combination with gear set	□ 7 mm x Ø 25 mm, cam 10 mm only use in combination with gear set			
h.4	106		**ALU Globe RR handle**		See handle ALU Globe RR in SIEGENIA download portal			
Main sash		**1**	**ALU DK FBS-EUL KPS locking side (with FBS on corner drive)**		**MMVS0310-10001_**	**1**	**MMVS0310-10003_**	**20**
	500	1	Locking bolt DK	omitted for ALU axxent PLUS				
	502	1	Clamping piece EUL					
	504	1	Corner drive VSO-FBS					
	no illus.	-	Striker EUL	replaced by item 539				
	507	1	Tilt lock 10 mm					
	no illus.	1	E striker cam 10	replaced by item 541				
	no illus.	1	Tilt locking part	replaced by item 570				
	513	1	Run-up block RAL 7001					
K		**0...1**	**VS ALU-DS/K A0004 FBS-EUL**	FH ≥ 710	**MMVS0510-10001_**	**1**	**MMVS0510-10002_**	**10**
	532	2	Stop spring A0172 0.5 mm					
	533	1	Shoot bolt ALU VSU A0004					
	535	1	Shoot bolt ALU VSO A0004					
	539	1	Striker VSO A0172 FBS-EUL					
	540	1	Striker DS A0172					
	541	1	Striker E A0172 cam 10 mm					
	542	0...2	Locking element A0004 RAL 9005	G1 ≥ 1000/G2 ≥ 500				
	553	1	Run-up ALU					
	570	1	Tilt locking part A0172					
A		**0...1**	**VS ALU-DS/A DN A0004 FBS-EUL**	FH ≥ 840	**MMVS0520-10001_**	**1**	**MMVS0520-10002_**	**10**
	532	2	Stop spring A0172 0.5 mm					
	534	1	Shoot bolt ALU VSU/DN A0004					
	536	1	Shoot bolt ALU VSO/DN A0004 FBS-EUL					
	539	1	Striker VSO A0172 FBS-EUL					
	540	1	Striker DS A0172					
	541	1	Striker E A0172 cam 10 mm					
	553	1	Run-up ALU					
	559	1	Stop RAL 9011					
	565	1	Secondary sash gear DN A0004					
	570	1	Tilt locking part A0172					
	925	2	Drill screw 3.9 x 32					
h.1		**0...1**	**ALU coupling set**	only use in combination with h.1/h.2	**MMKL0060-10001_**	**1**	**MMKL0060-10003_**	**20**
h.2	**600**	1	Coupling bracket					
	908	2	Cheese head screw M5 x 12					
h.3		**0...1**	**ALU gear set**	Only use in combination with h.3/h.4 (see SIEGENIA download portal)	**MMGI0090-10001_**	**1**	**MMGI0090-10003_**	**20**
h.4	**620**	1	M6 ESG					
	904	2	Countersunk screw M5 x 35					
	907	2	Coupling screw M6					
Accessories								
	915	**0...1**	**Handle support ALU**	Only use in combination with h.1/h.2	-	-	*see table page 4*	**200**

Versions, use VS

2-sash square turn/turn and tilt
locking sides ALU for FBS-EUL

Design variations for handle support (item 915) (h.1/h.2)

USH (mm)	Z (mm)	X ≤ 7 mm	X > 7 ≤ 8.5 mm
7 - 10	≤ 2	MFHA0010-10020_	MFHA0010-10020_
	> 2 ≤ 3		MFHA0020-10020_
	> 3		-



Use of secondary sash locking sides (see page 5)

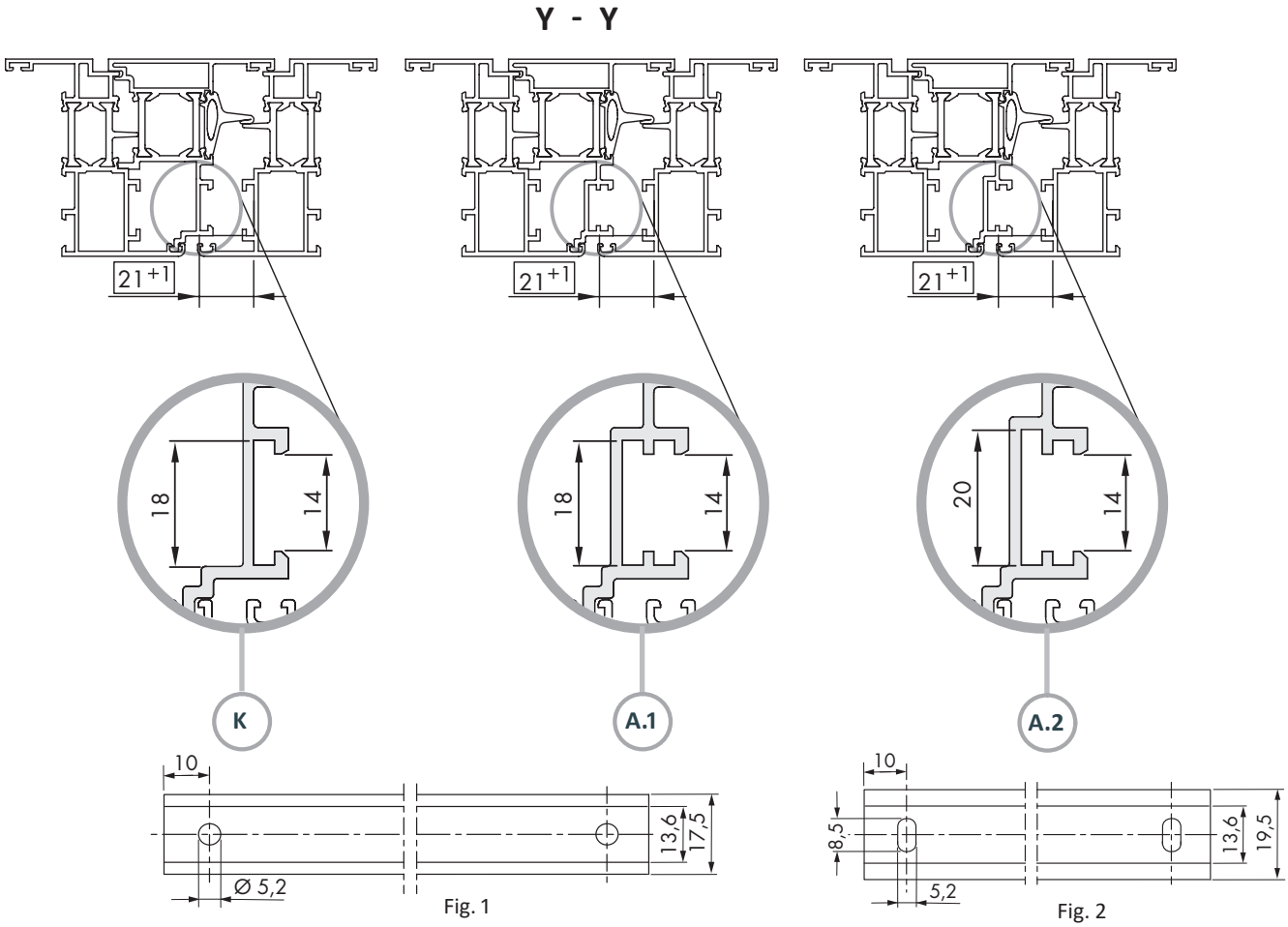


Fig. 1

Fig. 2

Use of secondary sash locking sides

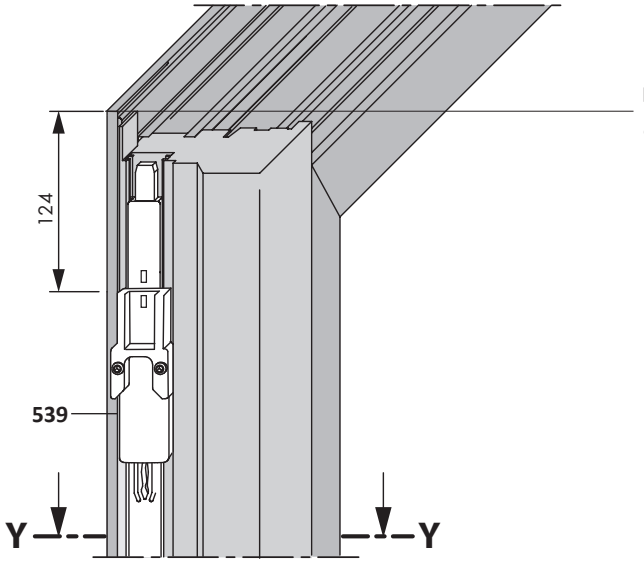
K: with secondary sash shoot bolt (for operating rod perforation see figure 1)

A.1: with secondary sash gear (for operating rod perforation see figure 1)

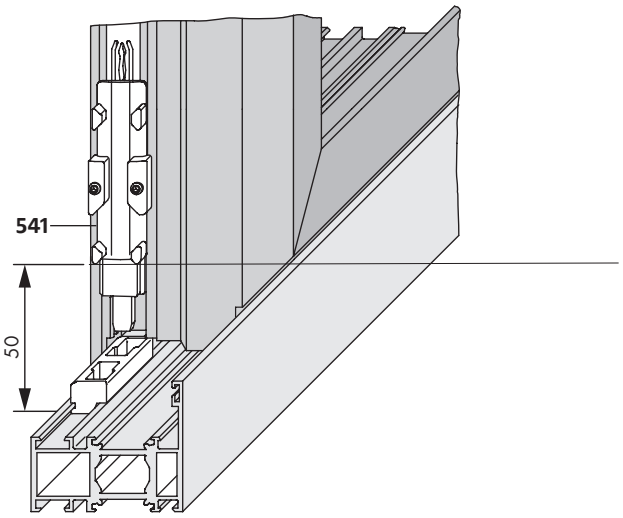
A.2: with secondary sash gear and groove 14/20 (for operating rod perforation see figure 2)

Note: see figure 2 for perforation of operating rods S6 nd S7 (only for A.2)

Jigs

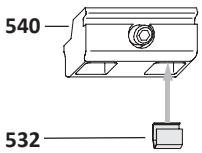


Positioning for striker VSO FBS-EUL (item 539):
Upper edge sash rebate



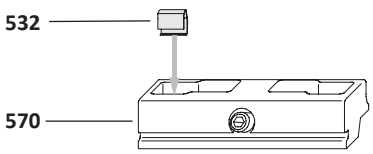
Positioning for striker E (item 541):
Bottom edge bottom edge sash rebate
(see Doc. Nr. H48.VSLS008EN, page 5)

Adjustments of secondary sash



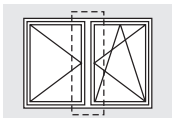
Pressure increase for secondary sash:

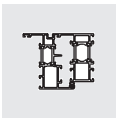
adjustment by means of stop spring (item **532**) ca. + 0.5 mm.



Additional information

2-sash square turn/turn and tilt locking sides ALU for FBS-EUL





Profile information ALU20
see Document Nr.: H45.ALUS001EN

Profile information ALU20



Aluminium eurogroove 15/20
Chamber dimension 21
Sash dimensions
Operating rod dimensions
Frame groove size A0004/A0006/A0022
Pivots

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!

The defined dimensions are final dimensions after the surface treatment of the profiles e.g. painted, powder coated etc.!

ALU axxent PLUS-D/DS assembly instructions
see Document Nr.: H39.axntLS002EN



ALU maintenance instructions
see Document Nr.: H49.ALUS001EN



ALU service instructions
see Document Nr.: H47.ALUS001EN

