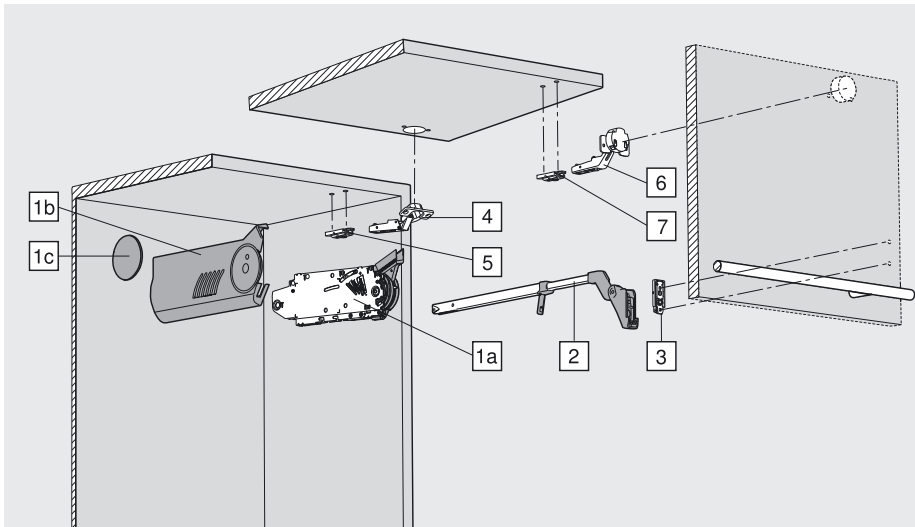




AVENTOS HF

Technical data sheet

Ordering information Wooden fronts and wide alu frames

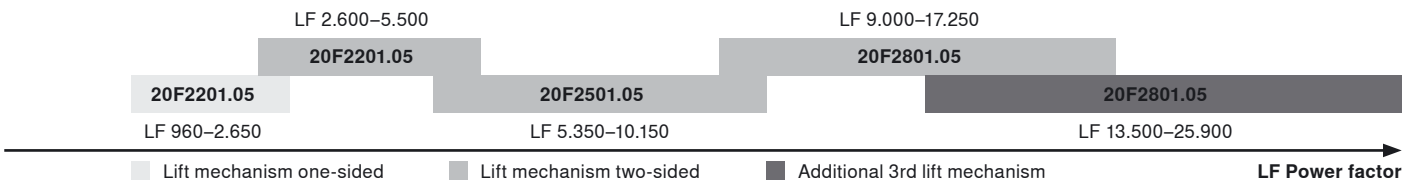


3 types of lift mechanisms are enough to cover a wide range of applications.

By establishing the power factor you can calculate the type and quantity of lift mechanisms. The power factor required depends on the weight of the lower and upper front (incl. handle) and cabinet height. The power factor and the door weight can be increased by 50% when a third lift mechanism is used.



This is how it's done: $\text{Power factor LF} = \text{cabinet height [mm]} \times \text{door weight including handle [kg]}$



A trial application is recommended when you are in a borderline area of the individual lift mechanism.

1a	Lift mechanism symmetrical		
	Power factor LF		
	2.600-5.500	2 x	20F2201.05
	5.350-10.150	2 x	20F2501.05
	9.000-17.250	2 x	20F2801.05

1b	Cover plate	
	Nylon light grey, silk white, nickel plated	
		left/right

1c	Cover cap round		
	Nylon dark grey, nickel plated		
	Plain	2 x	20F9001
	Printed with the BLUM Logo	2 x	20F9001.BL
	can be printed with customer logo – min. from 1,000 pcs		

Ordering information

Wooden fronts and wide alu frames symmetrical/



2	Telescopic arm symmetrical		
	Nickel plated steel		
	Cabinet height 480–570 mm	left/right	20F3201
	Cabinet height 560–710 mm	left/right	20F3501
	Cabinet height 700–900 mm	left/right	20F3801
	Cabinet height 760–1.040 mm	left/right	20F3901

3	Mounting plate for telescopic arm		
	All horizontal mounting plates with 0 mm distance		
	Screw-on ¹⁾	Spacing 0 mm	2 x 175H5400
	Knock-in	Spacing 0 mm	2 x 177H5100
	EXPANDO	Spacing 0 mm	2 x 177H5400E

4	CLIP top 120° hinge		
	Boss: Steel boss	Screw-on ²⁾ Unsprung	2 x* 70T5550.TL
	Boss: Steel boss	Knock-in Unsprung	2 x* 70T5580.TL
	Boss: Steel boss	EXPANDO Unsprung	2 x* 70T558E.TL
	Boss: Steel boss	INSERTA Unsprung	2 x* 70T5590BTL

¹⁾ "Theoretical cabinet height" for asymmetrical fronts = upper front height (FHO) x 2 (including gaps)

²⁾ Use chipboard screws (609.1x00) for wooden fronts. Use self tapping screw, countersunk head (660.0950) for wide alu frames.

* Number of hinges, see front assembly.

5	Mounting plate for CLIP top 120° hinge		
	STANDARD mounting plates, distance depends on the gap top		
	Knock-in	Spacing 0 mm	2 x* 177H5100

6	CLIP top centre hinge		
	Boss: Zinc boss	Screw-on ²⁾ Unsprung	2 x* 78Z5500T
	Boss: Zinc boss	Knock-in Unsprung	2 x* 78Z5530T
	Boss: Zinc boss	EXPANDO Unsprung	2 x* 78Z553ET

7	Mounting plate for CLIP top centre hinge		
	STANDARD mounting plates with 0 mm distance		
	Knock-in	Spacing 0 mm	2 x* 177H5100
Only use a cruciform mounting plate for wide alu frames under a 55 mm frame width			

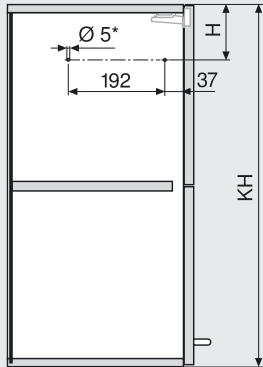
Opening angle stop			
	83°	dust grey	2 x 20F7011
	104°	deep grey	2 x 20F7051

Bit PZ cross slot		
	size 2, length 39 mm	BIT-PZ KS2

Planning Information

Wooden fronts and wide alu frames symmetrical

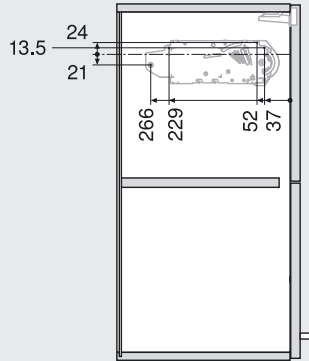
Peg positions for lift mechanism



* Drilling depth 5 mm

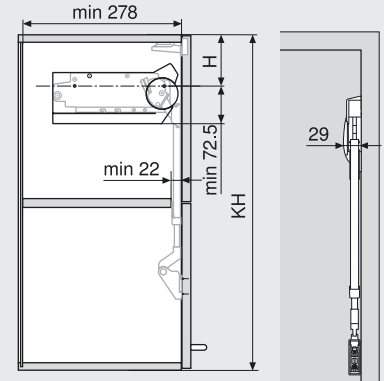
Cabinet height KH	H
480-549 mm	KH x 0.3 - 28 mm
550-1.040 mm	KH x 0.3 - 57 mm

Fixing positions for lift mechanism



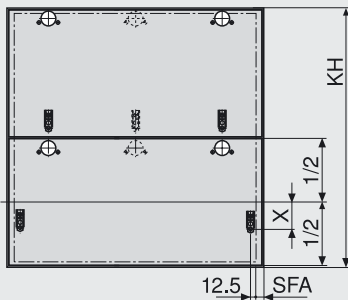
4 x Ø 4 x 35 mm

Space requirement



KH Cabinet height

Front assembly

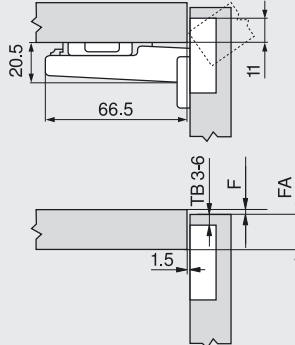


SFA Side front overlay

3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight
4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

Cabinet height KH	X Screw-on/ EXPANDO	X Knock-in
480-549 mm	68 mm	70 mm
550-1.040 mm	45 mm	47 mm

CLIP top 120° hinge unsprung



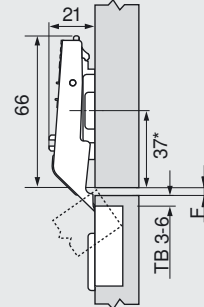
F Gap

Drilling distance TB

	Front overlay FA																
	5	6	7	8	9	10	11	12	13	14	15	16	17				
0										3	4	5	6				
3							3	4	5	6							
6				3	4	5	6										
9	3	4	5	6													

Mounting plate

CLIP top centre hinge



* 37 mm for cruciform mounting plates (37/32)

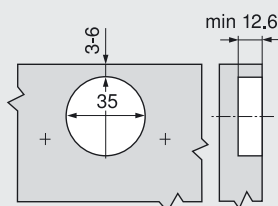
Min. gap F = 1.5 mm

Drilling distance TB

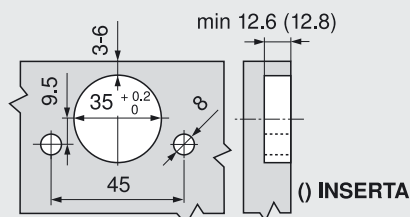
	Centre gap F																
	3	4	5	6	3	4	5	6	3	4	5	6					
0																	
3																	
6																	
9																	

Mounting plate

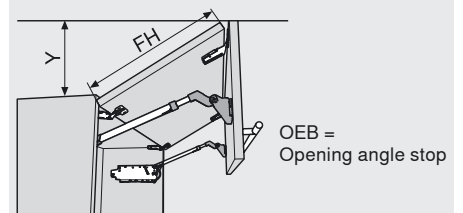
Screw-on



INSERTA/knock-in/EXPANDO assembly



Space requirement

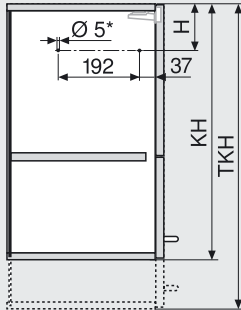


Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

Planning Information

Wooden fronts and wide alu frames asymmetrical

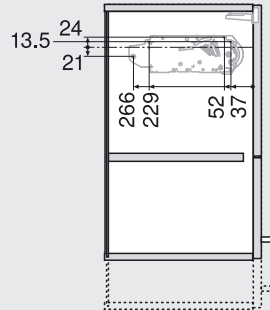
Peg positions for lift mechanism



* Drilling depth 5 mm

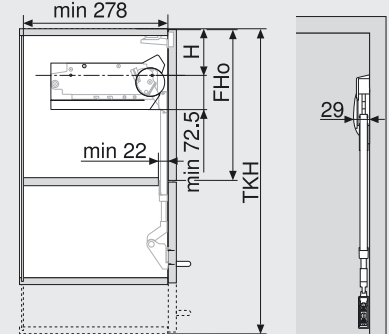
TKH	H
480–549 mm	TKH x 0.3 - 28 mm
550–1.040 mm	TKH x 0.3 - 57 mm

Fixing positions for lift mechanism



4 x Ø 4 x 35 mm

Space requirement

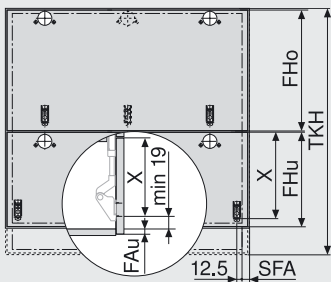


TKH Theoretical cabinet height¹⁾

FHo Upper front height

TKH = FHo mm x 2 (including gaps)

Front assembly



FHo Upper front height

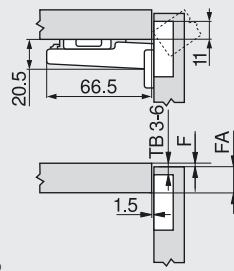
TKH Theoretical cabinet height

SFA Side front overlay

FAu Lower front overlay

TKH	X Screw-on/ EXPANDO	X Knock-in
480–549 mm	FHo/2 + 68 mm	FHo/2 + 70 mm
550–1.040 mm	FHo/2 + 45 mm	FHo/2 + 47 mm

CLIP top 120° hinge unsprung



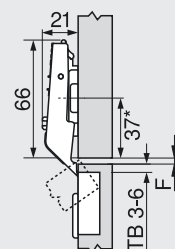
F Gap

Drilling distance TB

	Front overlay FA													
	5	6	7	8	9	10	11	12	13	14	15	16	17	
0											3	4	5	6
3							3	4	5	6				
6				3	4	5	6							
9	3	4	5	6										

▲ Mounting plate

CLIP top centre hinge



* 37 mm for cruciform mounting plates (37/32)

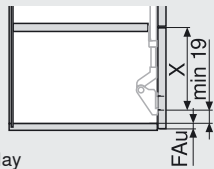
Min. gap F = 1.5 mm

Drilling distance TB

	Centre gap F					
			3	4	5	6
0			6	5	4	3
3						
6						
9						

▲ Mounting plate

Min. lower front height



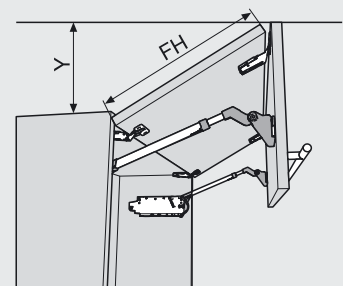
X + 19 + FAu

FAu Lower front overlay

Number of Hinges

3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight
4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

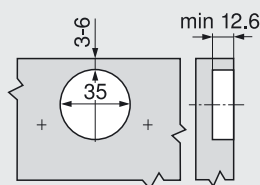
Space requirement



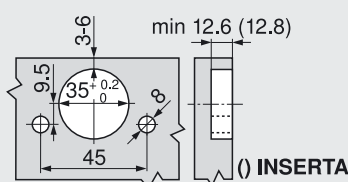
OEB = Opening angle stop

Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

Screw-on

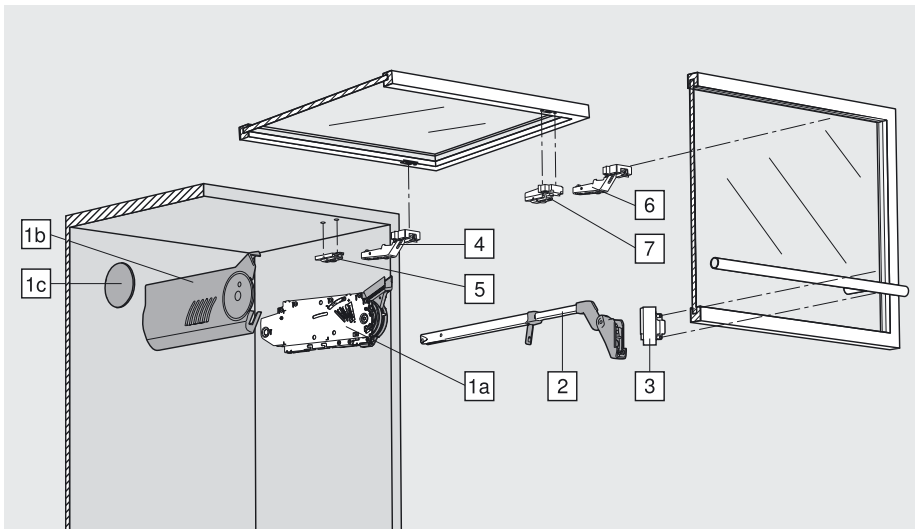


INSERTA/knock-in/EXPANDO assembly



¹⁾ "Theoretical cabinet height" for asymmetrical fronts = upper front height (FHo) x 2 (including gaps)

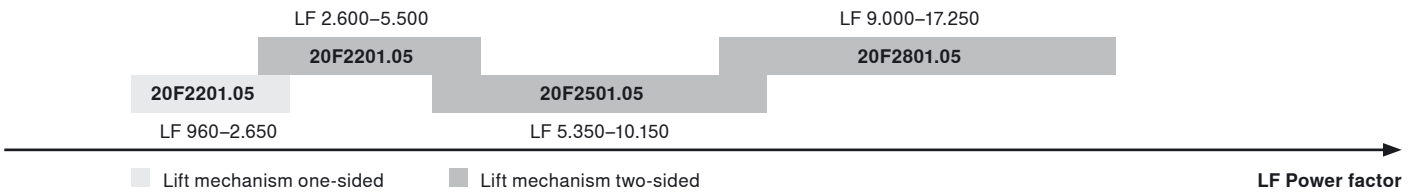
Order specifications Narrow alu frames symmetrical/asymmetrical



3 types of lift mechanisms are enough to cover a wide range of applications.

By establishing the power factor you can calculate the type and quantity of lift mechanisms. The power factor required depends on the weight of the lower and upper front (incl. handle) and cabinet height.

i This is how it's done: Power factor LF = cabinet height [mm] x door weight including handle [kg]



A trial application is recommended when you are in a borderline area of the individual lift mechanism.

1a			
	2.600–5.500	Lift mechanism symmetrical	2 x 20F2201.05
	5.350–10.150	Lift mechanism LF	2 x 20F2501.05
	9.000–17.250		2 x 20F2801.05

1c			
	Cover cap round	2 x	20F9001
	Nylon dark grey, nickel plated	2 x	20F9001.BL
	Plain		
Printed with the BLUM Logo			
can be printed with customer logo – min. from 1.000 pcs			


1b			
	Cover plate		20F8001
	Nylon light grey, silk white, nickel plated		


left/right

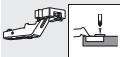
Order specifications

Narrow alu frames symmetrical/asymmetrical

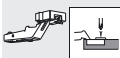



2	Telescopic arm symmetrical		
	Nickel plated steel		
	Cabinet height ¹⁾ 480–570 mm	left/right	20F3201
	Cabinet height ¹⁾ 560–710 mm	left/right	20F3501
	Cabinet height ¹⁾ 700–900 mm	left/right	20F3801
	Cabinet height ¹⁾ 760–1.040 mm	left/right	20F3901

3	CLIP adapter plate for telescopic arms		
	Spacing 0 mm	left/right	175H5B00


4	CLIP top 120° alu frame hinge		
	Boss:	Screw-on	2 x*
	Zinc boss	Unsprung	
			72T550A.TL

5	Mounting plate for CLIP top 120° hinge		
	STANDARD mounting plates, distance depends on the gap top		
	Knock-in	2 x*	177H5100
	Spacing 0 mm		

6	CLIP top alu frame centre hinge		
	Boss:	Screw-on	2 x*
	Zinc boss	Unsprung	
			78Z550AT

7	CLIP adapter plate for centre hinges		
	Symmetrical	2 x*	175H5A00

	Opening angle stop		
	83°	dust grey	2 x
	104°	deep grey	2 x

	Bit PZ cross slot	
	size 2, length 39 mm	BIT-PZ KS2

¹⁾ "Theoretical cabinet height" for asymmetrical fronts = upper front height (FHO) x 2 (including gaps)

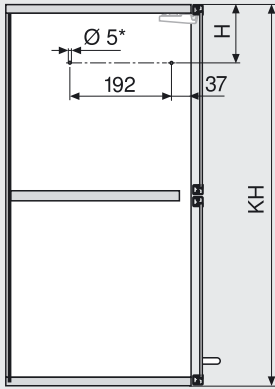
* Number of hinges, see front assembly.

Planning Information

Narrow alu frames symmetrical



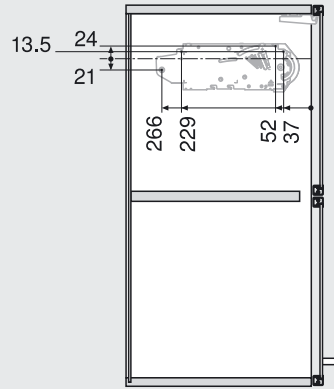
Peg positions for lift mechanism



* Drilling depth 5 mm

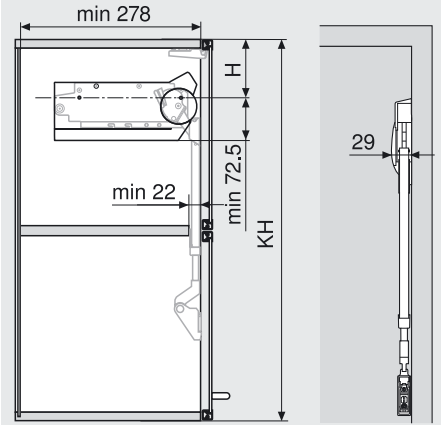
Cabinet height KH	H
480-549 mm	KH x 0.3 - 28 mm
550-1.040 mm	KH x 0.3 - 57 mm

Fixing positions for lift mechanism



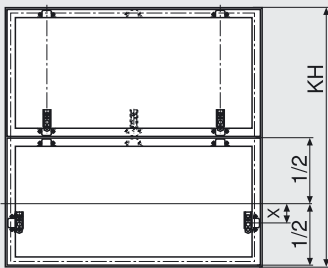
4 x Ø 4 x 35 mm

Space requirement



KH Cabinet height

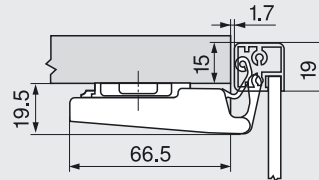
Front assembly



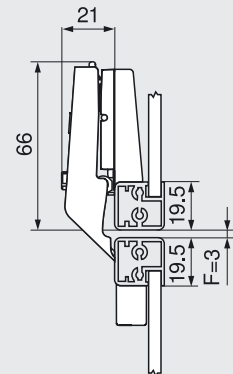
3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight
4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

Cabinet height KH	X
480-549 mm	54 mm
550-1.040 mm	31 mm

CLIP top 120° alu frame hinge unsprung



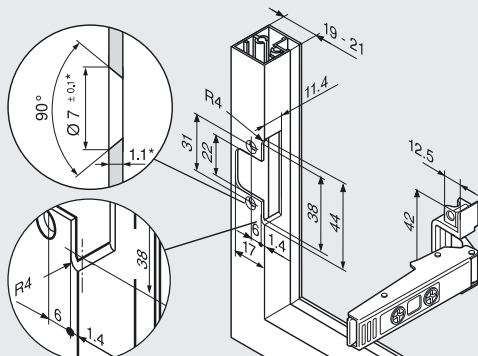
CLIP top alu frame centre hinge



Min. gap F = 1.5 mm

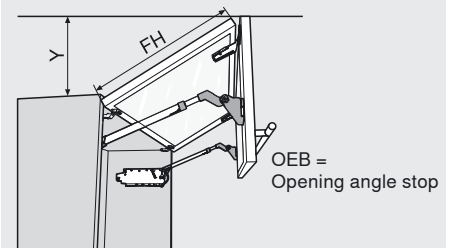
An adjustment has to be made for frame thicknesses over 20.5 mm

Front assembly



* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement



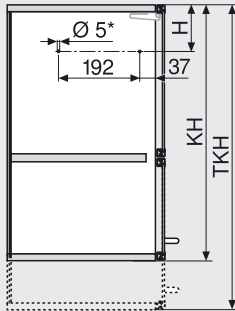
Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

Planning Information

Narrow alu frames asymmetrical



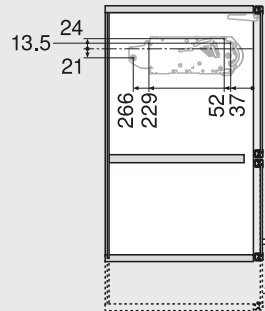
Peg positions for lift mechanism



* Drilling depth 5 mm

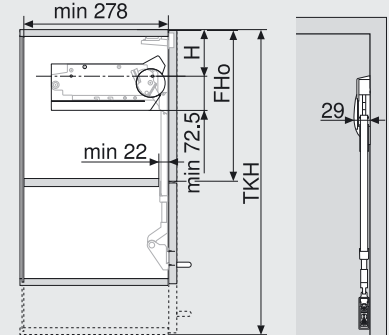
TKH	H
480-549 mm	TKH x 0.3 - 28 mm
550-1.040 mm	TKH x 0.3 - 57 mm

Fixing positions for lift mechanism



4 x Ø 4 x 35 mm

Space requirement

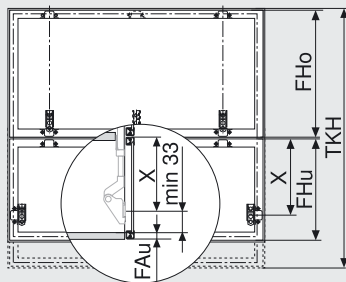


TKH Theoretical cabinet height¹⁾

FHo Upper front height

TKH = FHo mm x 2 (including gaps)

Front assembly



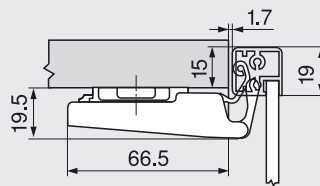
FHo Upper front height

TKH Theoretical cabinet height

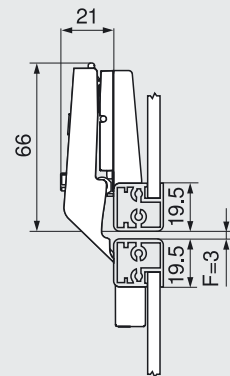
FAu Lower front overlay

TKH	X
480-549 mm	FHo/2 + 54 mm
550-1.040 mm	FHo/2 + 31 mm

CLIP top 120° alu frame hinge unsprung



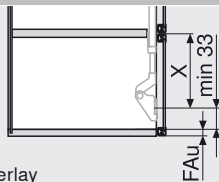
CLIP top alu frame centre hinge



Min. gap F = 1.5 mm

An adjustment has to be made for frame thicknesses over 20.5 mm

Min. lower front height



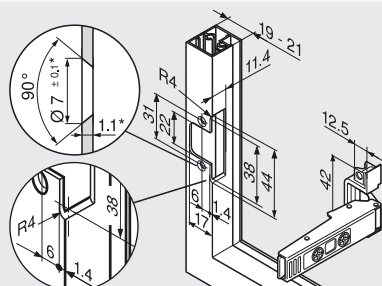
X + 33 + FAu

FAu Lower front overlay

Number of Hinges

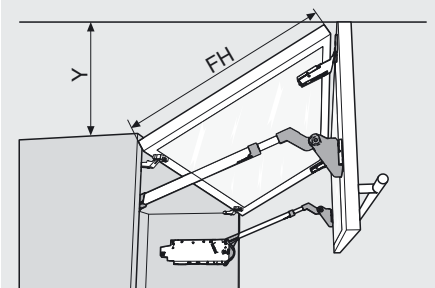
3 hinges starting at cabinet width 1200 mm and/or 12 kg door weight
4 hinges starting at cabinet width 1800 mm and/or 20 kg door weight

Screw-on



* When changing material thickness, adjust the assembly dimensions accordingly

Space requirement



OEB = Opening angle stop

Without OEB	Y = FH x 0.44 + 38
OEB 104°	Y = FH x 0.24 + 34
OEB 83°	Y = 0

¹⁾ "Theoretical cabinet height" for asymmetrical fronts = upper front height (FHo) x 2 (including gaps)