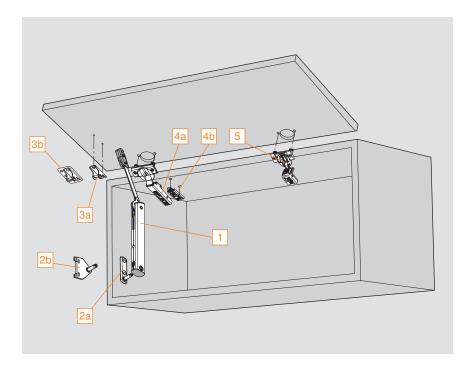
#### **AVENTOS HK-XS**

# Ordering information for face frame and panel

#### **Ablum**°



- Well suited for small wall cabinets
- Cabinet height from238 (9-3/8") to 610 (24")
- Interior depth minimum 127 (5")
- Closes silently and effortlessly with CLIP top BLUMOTION or COMPACT BLUMOTION hinges
- Simple, virtually tool-free assembly and easy adjustment
- Symmetrical lift mechanism can be used on one or both sides
- Designed for use with BLUMOTION hinges

#### Step 1 – Determine the power factor for the application



Power factor = cabinet height (inch) x door weight including double handle weight (lb)

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

#### **Example:**

Cabinet height: 15 inches (within possible range)

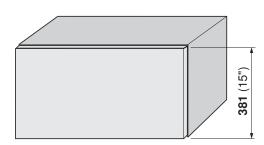
Door weight including twice the handle weight: 9 lb 14 oz (14 oz = .9 lb see chart below)

Total weight converted to decimal is 9.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor =  $15 \times 9.9$ Power factor = 148.5

A power factor of 148.5 requires lift mechanism 20K1501



door weight + twice handle weight = 9 lb 14 oz

	weight conversion chart														
oz 1 2 3 4 5 6 7 8 9 10 11 12 13 14 1										15					
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

#### **Ordering information**

#### **AVENTOS HK-XS**



#### Step 2 – Select the required components

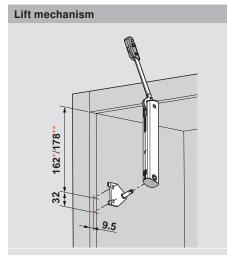
Lift mechani	ism			
4		NOTE: Two lift mechanisms	are required for cabinet widths greater than	610 (24")
1		Opening angle is 105° with 0	CLIP top BLUMOTION, 100° with COMPACT	BLUMOTION hinges
		Power factor range (1 lift)	Power factor range (2 lifts)	Part no.
		17 - 60	34 - 120	20K1101
		61 – 112	121 – 224	20K1301
		113 - 156	225 - 312	20K1501
Cabinet mou	inting plate			
		Panel		Part no.
2a		Screws	_	20K5101
		EXPANDO		20K51E1
	A	EXI ANDO		2013121
2b		Face frame		Part no.
		Screws		20K5501
Door mounti	ing plate			
3a				Part no.
		Screws	_	20K4101
3b				Part no.
		NOTE: For use with large over Screws	verlay five-piece doors	
		Sciews	_	20K4501
Hinge recom	nmendations			
40		CLIP top BLUMOTION 110	)	Part no.
4a		Press-in		71B3580
		Hinge mounting plate		Part no.
	Ma	Screws		175H3100
4b				
5		COMPACT BLUMOTION 39	oc	Part no.
		<b>32</b> (1-1/4") Overlay, Press-in		39C358B.20
		COMPACT BLUMOTION 38	N	Part no.
	-	13 (1/2") Overlay, Press-in		38N358B.08

**NOTE**: For other hinges and mounting plate options please refer to the Concealed hinges brochure

# Planning specifications for face frame and panel

#### *Ablum*°

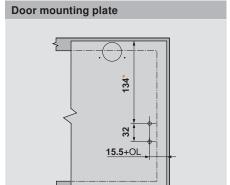
#### Cabinet and door mounting plate locations for face frame applications



\*Location when using COMPACT 39/38C \*\*Location when using COMPACT 38N

NOTE: When using CLIP top BLUMOTION hinges in a face frame application, you will need to use the calculation below:

Y = 137 + D + K



\*Location when using COMPACT hinges

When using large overlay mounting plate (20K4501) hole location is offset by 19 mm (15.5 + OL - 19)

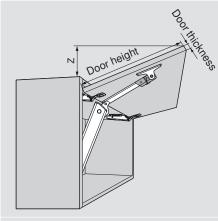
NOTE: When using CLIP top BLUMOTION hinges in a face frame application, you will need to use the calculation below:

126 + D + K + OL

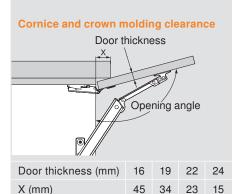
Attach using #6 x 5/8" (606N/P) wood screw

# Space requirements white the space is a specific property of the space is a specific property of the space is a space in the space in the space is a space in the space in the space is a space in the space in the space in the space is a space in the sp

\*Minimum top reveal based on hinge used. Please see minimum reveal specs in Concealed hinges brochure

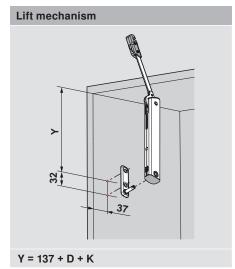


Z = (Door height minus A) x 0.3											
Door thickness (mm)	16	19	22	24							
A (mm)	45	34	23	15							

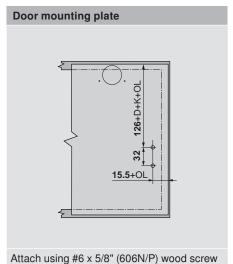


Opening angle = 105° CLIP top BLUMOTION 100° COMPACT BLUMOTION

#### Cabinet and door mounting plate locations for panel applications



Abbreviations										
D	=	Mounting plate height								
K	=	Hinge arm crank								
OL	=	Overlay								



K = Hinge arm crank		
Straight arm crank	=	0 mm
Half cranked arm	=	9.5 mm
Full cranked arm	=	18 mm

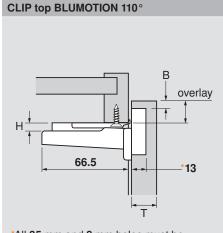
NOTE: Designed to be used in a lift up application only

#### **Planning specifications**

#### **AVENTOS HK-XS**

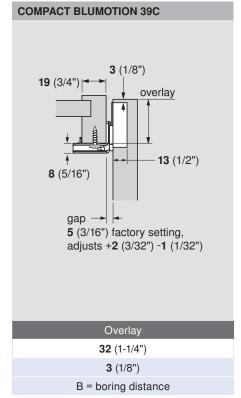


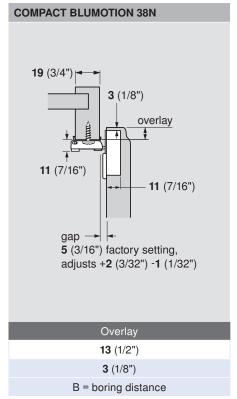
#### **Face frame applications**



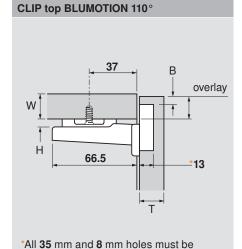
\*All 35 mm and 8 mm holes must be a minimum of 13 mm deep

Н		C	Р	S							
0	14	15	16	17	17 18		21.5				
3	11	12	13	14	15	15	24.5				
4.5	9.5	10.5	11.5	12.5	13.5	16.5	26				
6	8	9	10	11	12	18	27.5				
	3	4		ed							
	B = boring distance = 11										





#### **Panel applications**



Overlay 21.5 24.5 27.5 30.5 fixed distance B = boring distance

a minimum of 13 mm deep

NOTE: Use 3 hinges at cabinet width 914 (36") and/or power factor 156 and 4 hinges at cabinet width 1219 (48") and/or power factor 234

# Abbreviations H = Plate height P = Door protrusion S = Side arm protrusion W = Side panel width T = Door thickness

#### CLIP top BLUMOTION 110 $^{\circ}$

Minimum reveal table													
3	0.5	1.0	1.8	2.7	4.3								
4	0.5	1.0	1.7	2.5	3.8								
5	0.5	0.9	1.7	2.4	3.4								
6	0.5	0.9	1.6	2.3	3.2								
7	0.5	0.9	1.6	2.2	3.0								
B =	16	19	22	24	26								
boring distance		T = dc	or thic	kness									

For thickness greater than 26 trial app. recommended

#### **COMPACT BLUMOTION 39C**

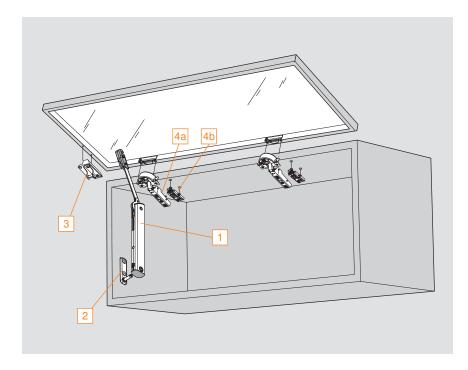
Minimum reveal table									
<b>3</b> (1/8")	<b>5.5</b> (7/32")								
	<b>19</b> (3/4")								
B = boring distance	T = door thickness								

#### **COMPACT BLUMOTION 38N**

Minimum reveal table									
<b>3</b> (1/8")	<b>7</b> (9/32")								
	<b>19</b> (3/4")								
B = boring distance	T = door thickness								

## Ordering information for narrow aluminum

#### **Ablum**



- Well suited for small wall cabinets
- Cabinet height from238 (9-3/8") to 610 (24")
- Interior depth minimum 127 (5")
- Closes silently and effortlessly with CLIP top BLUMOTION
- Simple, virtually tool-free assembly and easy adjustment
- Symmetrical lift mechanism can be used on one or both sides
- Designed for use with BLUMOTION hinges

#### Step 1 – Determine the power factor for the application



Power factor = cabinet height (inch) x door weight including double handle weight (lb)

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

#### **Example:**

Cabinet height: 15 inches (within possible range)

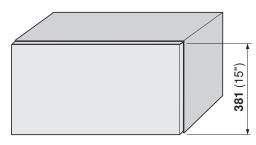
Door weight including twice the handle weight: 9 lb 14 oz (14 oz = .9 lb see chart below)

Total weight converted to decimal is 9.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor =  $15 \times 9.9$ Power factor = 148.5

A power factor of 148.5 requires lift mechanism 20K1501



door weight + twice handle weight = 9 lb 14 oz

NOTE: AVENTOS	planning	tools	available	at blum.	.com/ <sub> </sub>	olanning

	weight conversion chart														
oz 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15											15				
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

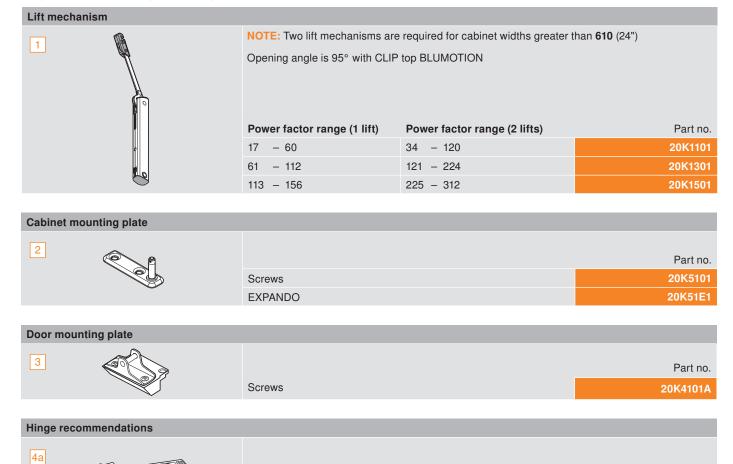
#### **Ordering information**

#### **AVENTOS HK-XS**



#### Step 2 - Select the required components

4b



NOTE: For other hinges and mounting plate options please refer to the Concealed hinges brochure

Press-in

Screws

CLIP top BLUMOTION  $95^{\circ}$ 

Hinge mounting plate

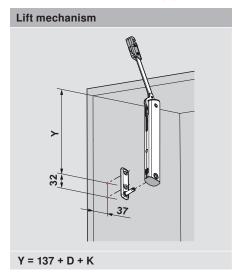
Part no. 71B950A

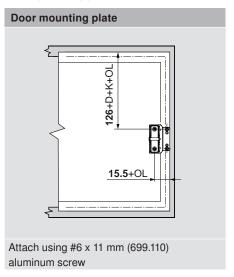
Part no.

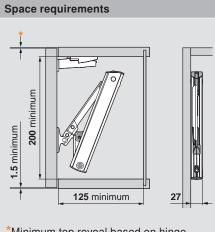
#### **Planning specifications** for narrow aluminum

#### Ablum

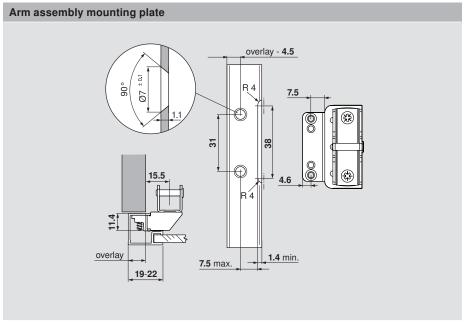
#### Cabinet and door mounting plate locations for panel applications

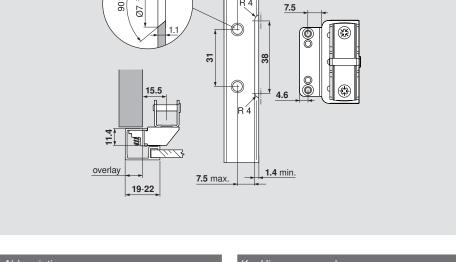






\*Minimum top reveal based on hinge used. Please see minimum reveal specs in Concealed hinges brochure

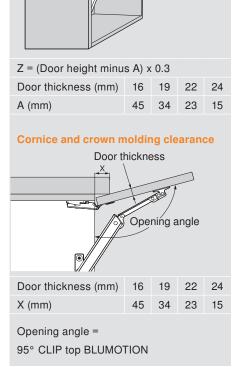




Abbreviations								
D	=	Mounting plate height						
K	=	Hinge arm crank						
OL	=	Overlay						

K = Hinge arm crank							
Straight arm crank	=	0 mm					
Half cranked arm	=	9.5 mm					
Full cranked arm	=	18 mm					

NOTE: Designed to be used in a lift up application only

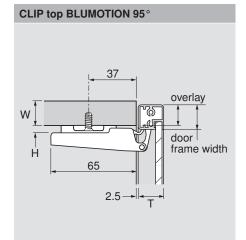


#### **Planning specifications**

### AVENTOS HK-XS



#### **Panel applications**



NOTE: Use 3 hinges at cabinet width 914 (36") and/or power factor 156 and 4 hinges at cabinet width 1219 (48") and/or power factor 234

Н	Overlay	Р	S
0	16	13.5	22
3	13	16.5	25
6	10	19.5	28
9	7	22.5	31
	B = fixed		

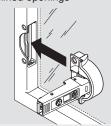
Abbre	Abbreviations								
Н	= Plate height								
Р	= Door protrusion								
S	= Side arm protrusion								
W	= Side panel width								
Т	= Door thickness								

#### **CLIP top BLUMOTION 95°**

Minimum reveal table									
18	0.2	0.3	0.4	0.6	0.7				
19	0.2	0.3	0.4	0.6	0.7				
20	0.2	0.3	0.4	0.5	0.7				
21	0.2	0.3	0.4	0.5	0.7				
22	0.2	0.3	0.4	0.5	0.7				
door	18	19	20	21	22				
frame width		T = d	oor thicl	kness					

Thickness greater than 22 trial recommended

# **Installation**Attach cup adapter to the hinge and insert into machined openings



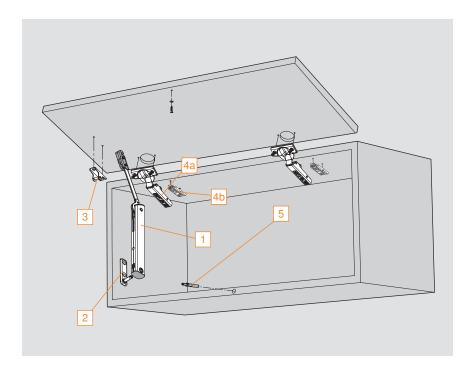
Attach using aluminum screws provided with hinges (699.110)



# Aluminum door preparation 11.9 0.8-2 11.9 R17.6 R17.6 R17.6 R17.6

### Ordering information for TIP-ON

#### *ablum*°



- Well suited for small wall cabinets
- Cabinet height from238 (9-3/8") to 610 (24")
- Interior depth minimum 127 (5")
- Opens with a light touch to the front
- Simple, virtually tool-free assembly and easy adjustment
- Symmetrical lift mechanism can be used on one or both sides
- Designed for use with free swing hinges

#### Step 1 – Determine the power factor for the application



Power factor = cabinet height (inch) x door weight including double handle weight (lb)

#### **Determine power factor**

To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

#### **Example:**

Cabinet height: 15 inches (within possible range)

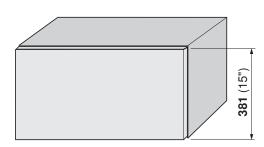
Door weight including twice the handle weight: 9 lb 14 oz (14 oz = .9 lb see chart below)

Total weight converted to decimal is 9.9 lb

Power factor = cabinet height multiplied by door weight including twice the handle weight

Power factor =  $15 \times 9.9$ Power factor = 148.5

A power factor of 148.5 requires lift mechanism 20K1501



door weight + twice handle weight = 9 lb 14 oz

NOTE: AVENTOS p	lanning tools	available	at blum.cc	m/planning

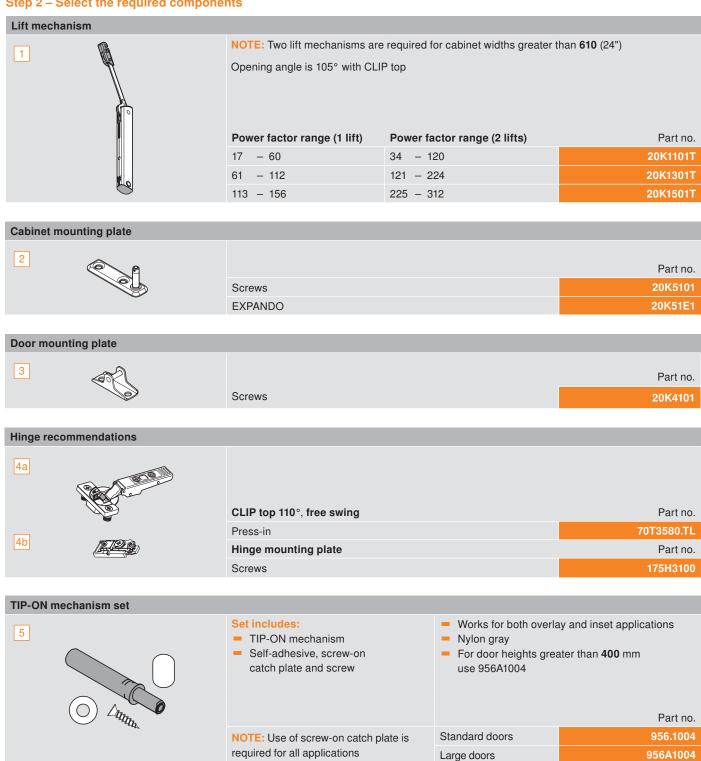
weight conversion chart															
oz	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
lb	.1	.1	.2	.3	.3	.4	.4	.5	.6	.6	.7	.8	.8	.9	.9

#### **Ordering information**

#### **AVENTOS HK-XS**



#### Step 2 - Select the required components

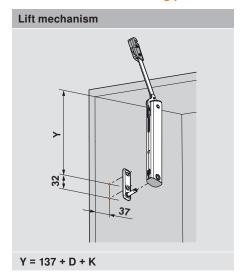


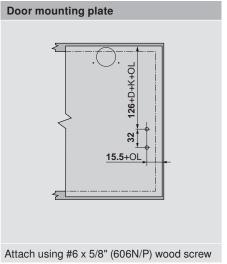
NOTE: For other hinges and mounting plate options please refer to the Concealed hinges brochure

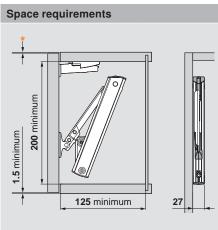
# Planning specifications for TIP-ON

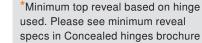
#### **ablum**°

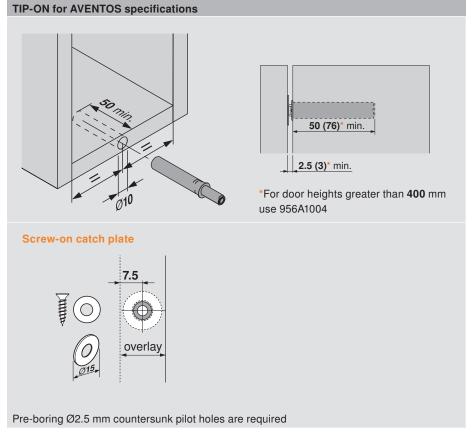
#### Cabinet and door mounting plate locations for panel applications







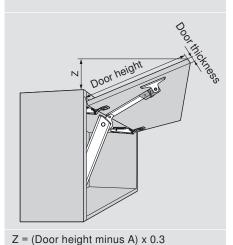




K = Hinge ar

Straight arm
Half cranked

Full cranked



A (mm)	45	34	23	15
Cornice and crown m  Door th	nickne	~		
Door thickness (mm)	16	19	22	24

Door thickness (mm) 16 19 22 24

			Door thickness (mm)	16	19	22	24		
ırm crank			X (mm)	45	34	23	15		
n crank	=	0 mm							
d arm	=	9.5 mm	Opening angle =						
d arm	=	18 mm	105° CLIP top free sw	ring					

NOTE: Designed to be used in a lift up application only

Mounting plate height

= Hinge arm crank

= Overlay

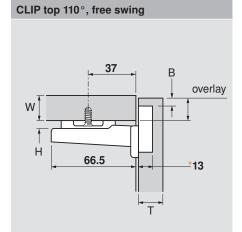
Abbreviations

#### **Planning specifications**

#### **AVENTOS HK-XS**



#### **Panel applications**



\*All 35 mm and 8 mm holes must be a minimum of 13 mm deep

Н		C	Р	S						
0	14	15	16	17	18	12	21.5			
3	11	12	13	14	15	15	24.5			
6	8	9	10	11	12	18	27.5			
9	5	6	7	8	9	21	30.5			
	3	4	5							
	B = boring distance = 11									

NOTE: Use 3 hinges at cabinet width 914 (36") and/or power factor 156 and 4 hinges at cabinet width **1219** (48") and/or power factor 234

Abbre	Abbreviations							
Н	= Plate height							
Р	= Door protrusion							
S	= Side arm protrusion							
W	= Side panel width							
Т	= Door thickness							

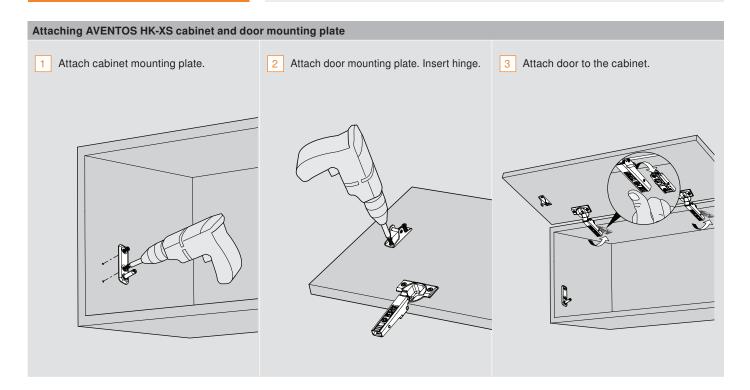
#### CLIP top 110°, free swing

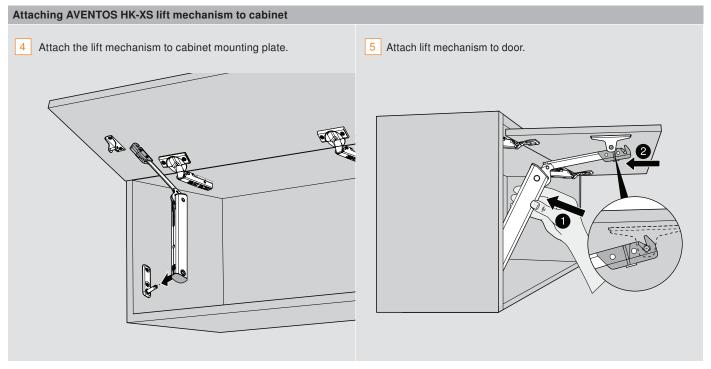
Minimum reveal table										
3	0.5	1.0	1.8	2.7	4.3					
4	0.5	1.0	1.7	2.5	3.8					
5	0.5	0.9	1.7	2.4	3.4					
6	0.5	0.9	1.6	2.3	3.2					
7	0.5	0.9	1.6	2.2	3.0					
B =	16	19	22	24	26					
boring distance		T = dc	or thic	kness						

For thickness greater than 26 trial app. recommended

#### Installation

#### *ablum*°





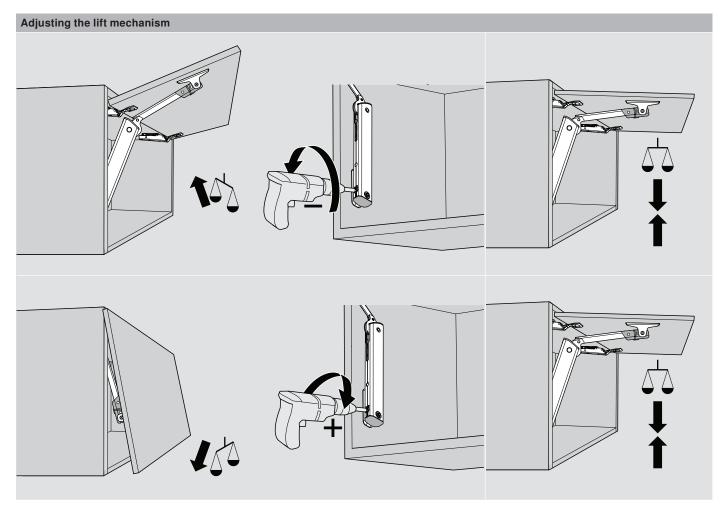


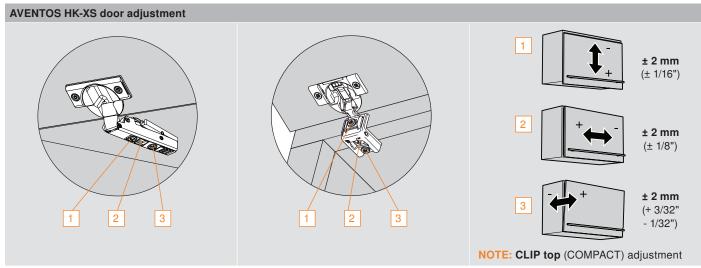
#### Warning: Risk of injury by spring-loaded lever arm!

- Do not push lever arm down
- Secure lever arm before installing cabinet









#### **Assembly aids**

#### **Ablum**°

