# Using this catalog

### Step 1: Determine your application

Go to the page for your application: face frame page 9, panel page 11, or narrow frame aluminum door page 13.

### Step 2: Calculate the power factor

Determining the Power factor (PF) is important for chosing the lift mechanism that works best with your cabinet and doors. It is calculated by multiplying the cabinet height in inches by the exact door weight (including twice the weight of the handle) in pounds.

# Power factor (PF) = cabinet height [inch] x door weight\* [lb] (including 2 x the handle weight)

\* For calculations, use the conversion chart below to determine door weight in decimal form.

### **Example:**

Cabinet height: 24 inches

Door weight (including 2 x handle): **23 lb 14 oz** (14 oz = .9 lb).

Weight converted to decimal is 23.9 lb

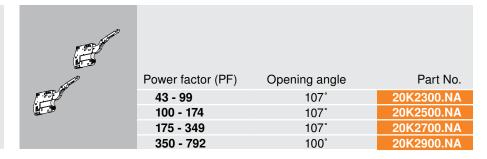
Power factor (PF) =  $24 \times 23.9$ 

Power factor (PF) = 574

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

### Step 3: Select proper lift mechanism set based on power factor

Use the calculated Power factor (PF) to select the proper lift mechanism.



### Step 4: Select the proper hardware set

Select the proper hardware set based on the intended application.

Wood/wide aluminum door application							
	Part no.						
Hardware set	20K4200.A1	Ha					

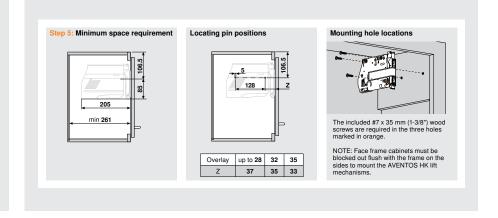
Narrow aluminum do	num door application			
	Part no.			
Hardware set	20K4200AA1			



### Step 5: Determine mounting location for lift mechanism

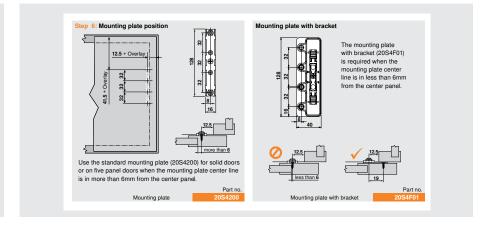
Use the diagram for the appropriate application to determine the lift mechanism locating hole positions and pre-bore them in the cabinet sides.

For face frame applications, cabinet sides must be blocked out.



### Step 6: Determine mounting location for the mounting plates

Use the diagram for the appropriate application to determine mounting plate positions and mount them on the doors.

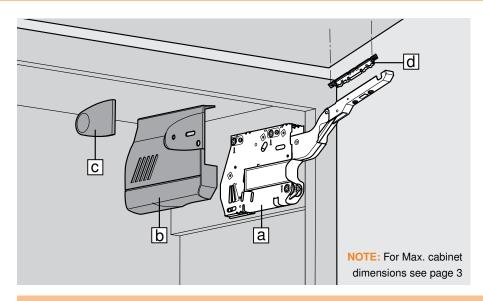


### Step 7: Begin assembly

Now move to the Assembly instructions on page 17.



# Wood or wide aluminum door for face frame applications



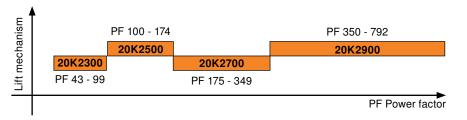
### **Determine required parts**

To determine the required lift mechanism set for any application, calculate the power factor based on weight of the door (including double the handle weight) and cabinet height. See formula below

NOTE: Face frame cabinets must be blocked out flush with the frame on the sides to mount the AVENTOS HK lift mechanisms.

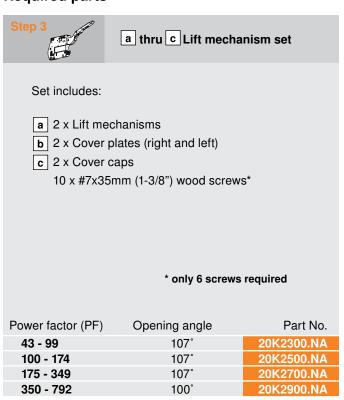
Using this catalog Installation & removal page 7 pages 17 - 20

# Power factor (PF) = cabinet height in inches x door weight in pounds (including double the handle weight)



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

### Required parts

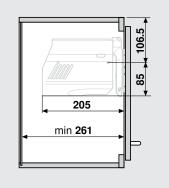


# Step 4: Wood/wide aluminum door hardware set Set includes: d 2 x 20S4200 Wood/wide aluminum mounting plate d 2 x 20S4F01 Wood/wide aluminum mounting plate with bracket 22 x 606P Wood door screws for 20S4200\* 18 x 699.110 Aluminum door screws for mounting plates\* POZI #2x2 driver bit for adjusting tension \* only 8 screws required Part no. Hardware set

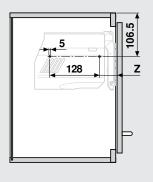


## Installation

### **Step 5: Minimum space requirement**

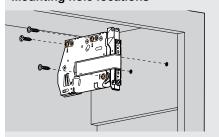


### Locating pin positions



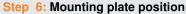
Overlay	up to 28	32	35	
Z	37	35	33	

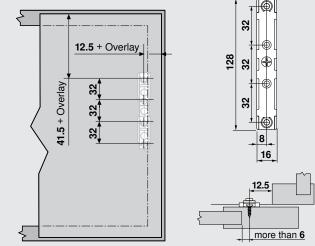
### Mounting hole locations



The included #7 x 35 mm (1-3/8") wood screws are required in the three holes marked in orange.

NOTE: Face frame cabinets must be blocked out flush with the frame on the sides to mount the AVENTOS HK lift

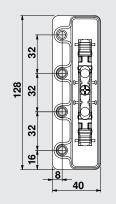




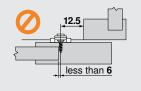
Use the standard mounting plate (20S4200) for solid doors or on five panel doors when the mounting plate center line is in more than 6mm from the center panel.

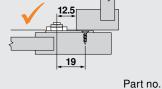
> Part no. 20S4200 Mounting plate

### Mounting plate with bracket



The mounting plate with bracket (20S4F01) is required when the mounting plate center line is in less than 6mm from the center panel.

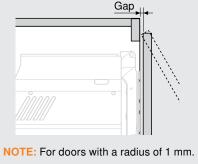




Mounting plate with bracket

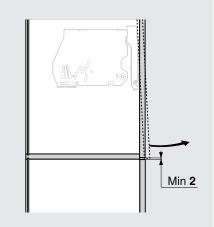
20S4F01

### Minimum gap

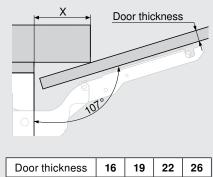


Overlay	up to <b>28</b>	32	35	
Gap	1.5	4	5	

### Minimum bottom reveal



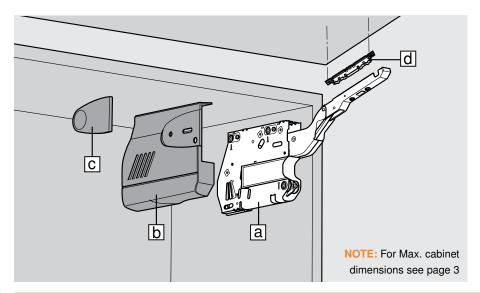
### **Decorative molding clearance**



Door thickness	16	19	22	26
X	70	59	49	35



# Wood or wide aluminum door for panel applications

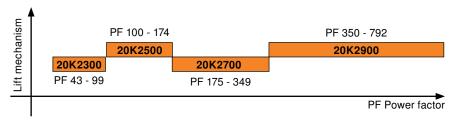


### **Determine required parts**

To determine the required lift mechanism set for any application, calculate the power factor based on weight of the door (including double the handle weight) and cabinet height. See formula below

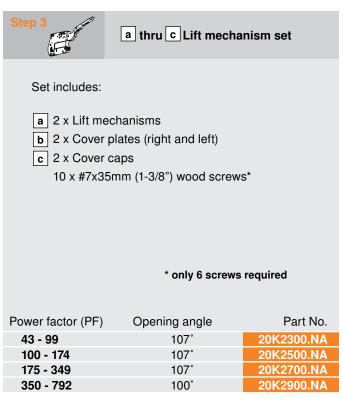
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# Power factor (PF) = cabinet height in inches x door weight in pounds (including double the handle weight)



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

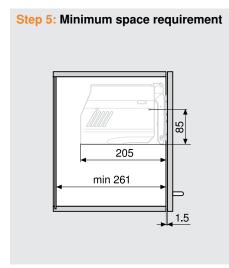
### Required parts

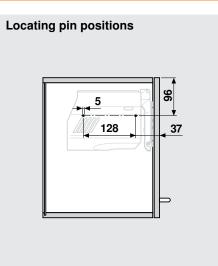


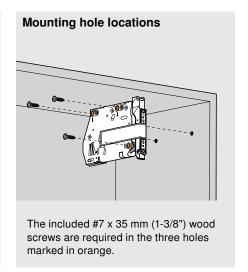
# Step 4: Wood/wide aluminum door hardware set Set includes: d 2 x 20S4200 Wood/wide aluminum mounting plate d 2 x 20S4F01 Wood/wide aluminum mounting plate with bracket 22 x 606P Wood door screws for 20S4200\* 18 x 699.110 Aluminum door screws for mounting plates\* POZI #2x2 driver bit for adjusting tension \* only 8 screws required Part no. Hardware set

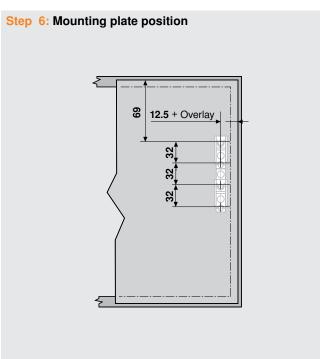


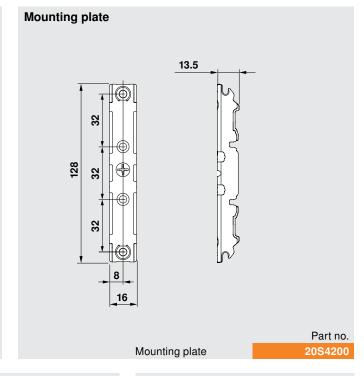
# Installation

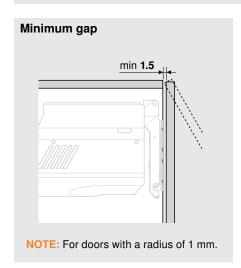


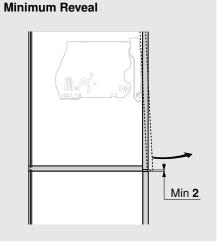


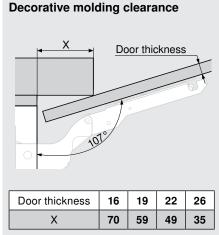






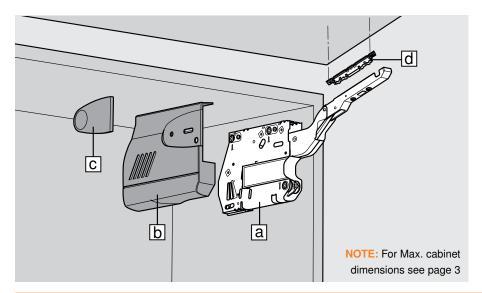








# Narrow aluminum door for panel applications

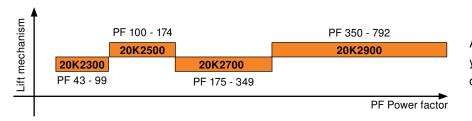


### **Determine required parts**

To determine the required lift mechanism set for any application, calculate the power factor based on weight of the door (including double the handle weight) and cabinet height. See formula below

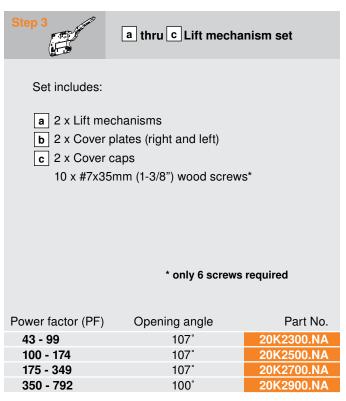
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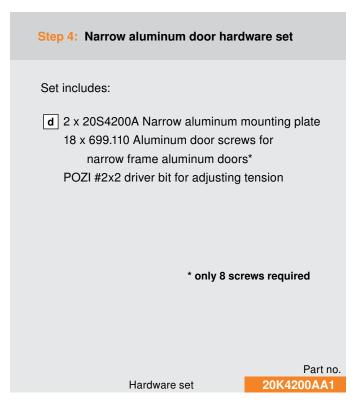
# Power factor (PF) = cabinet height in inches x door weight in pounds (including double the handle weight)



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

### **Required parts**

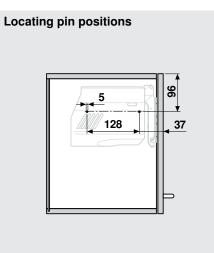


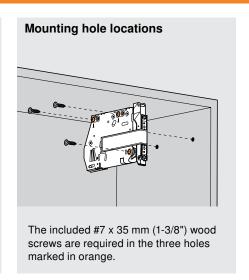


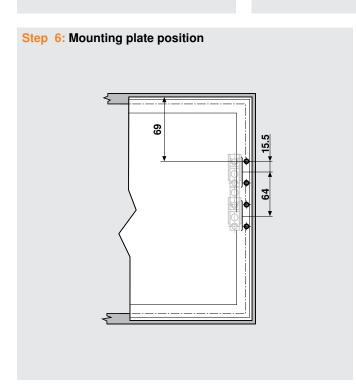


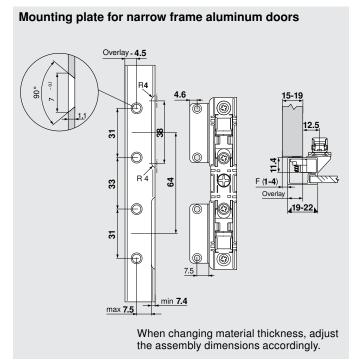
# Installation

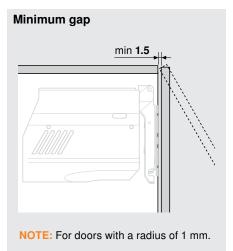
Step 5:Minimum space requirement

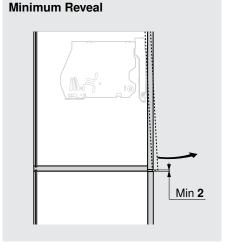


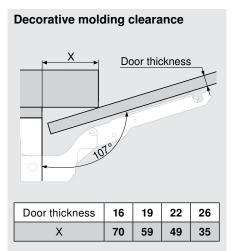










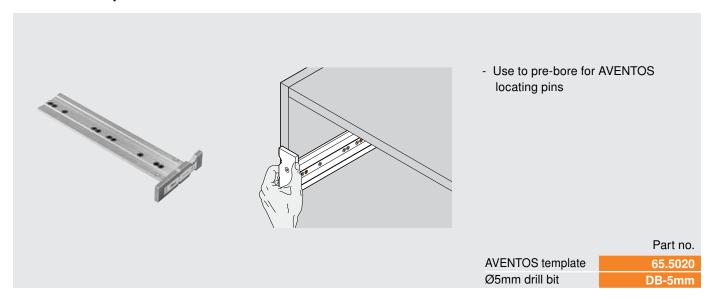




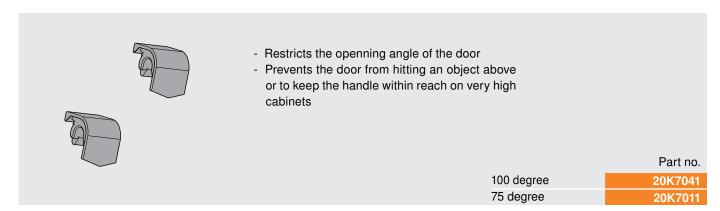
# Assembly aids and accessories



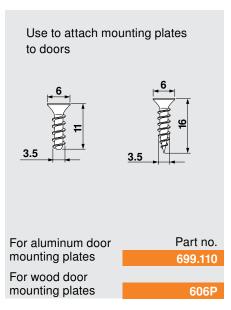
### **AVENTOS** template



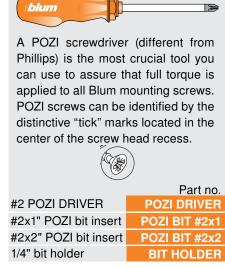
### **Restriction clip**



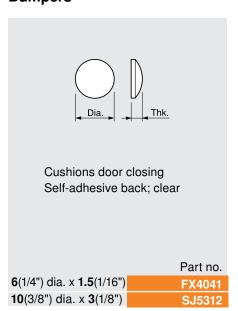
### **Screws**



### **POZI DRIVER and bits**



### **Bumpers**



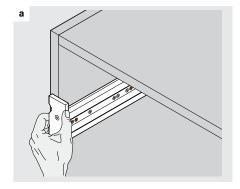


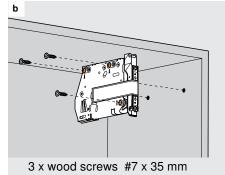
### Step 1: Complete an AVENTOS planning worksheet

Go through the "Using this catalog" steps on pages 7 - 8 or complete an AVENTOS planning worksheet (available on www.blum.com). This will help you determine required hardware and neccessary cabinet preparation.

### Step 2: Install the lift mechanism

- use the AVENTOS template to prebore the locating pin holes for the AVENTOS HK lift mechanism.
- After aligning the lift mechanism with the cabinet using the locator pins, attach the mechanism with the three mounting screws provided.





Step 3: Remove warning label from lift mechanism and raise arms

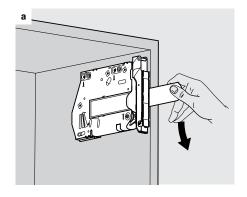


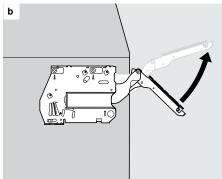
Risk of injury: spring-loaded lever arm

- Do not push lever arm down or leave in the down position
- Remove mechanism before installing or removing cabinet
- Standing at arm's length, carefully remove the label holding the arm in place.
- b. Raise the arm to the upright position.

NOTE: Do not remove warning label until just before attaching the door.





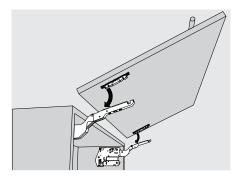


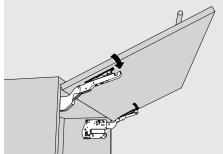




### Step 4: Attach the door

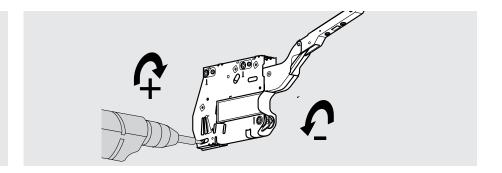
Attach the door using the CLIP mechanism in the mounting plate.





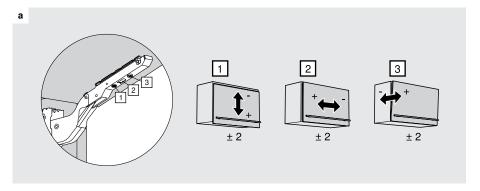
### Step 5: Adjust the door tension

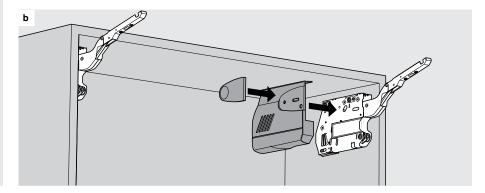
Use a screw gun and the supplied #2x2 POZI driver bit to adjust the lift mechanism to the desired tension.



### Step 6: Finalize the door adjustments and attach cover caps

- a. Use a POZI screwdriver to adjust cam adjustments for each of the 3-dimensional adjustments.
- b. Snap the symmetrical cover caps on each cover plate. Place the left and right cover plates over the appropriate lift mechanisms and snap them in place.







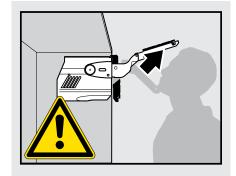


### Step 1: Be aware



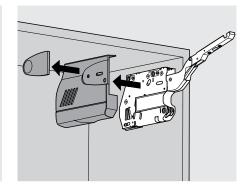
Risk of injury: spring-loaded lever arm

- Do not push lever arm down or leave in the down position
- Remove mechanism before installing or removing cabinet



### Step 2: Remove the cover plates

Remove the cover caps and cover plate.



### Step 3: Remove the door

- a. Open the door. Use a screwdriver to disengage the CLIP mechanism of the lever arm from the mounting plate.
- b. Support the door with one hand and repeat on the other side.

