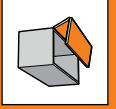
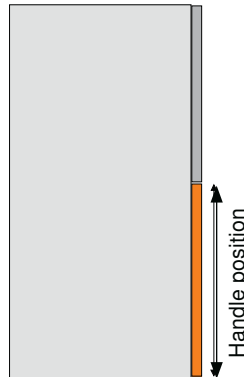
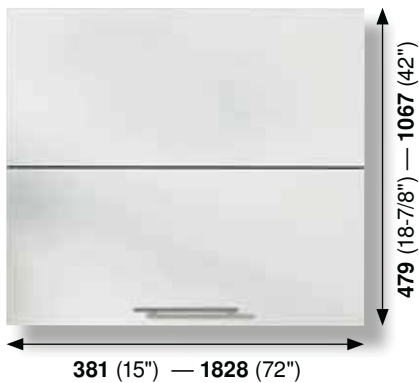


## AVENTOS HF — Bi-fold lift system





# AVENTOS HF advantages



## Few parts — many applications

AVENTOS HF covers all common widths and heights with one small program: three lift mechanisms and four telescopic arms. This simplifies planning, ordering and warehousing.

## Free positioning of handles

Any type of handle can be used with AVENTOS HF. Ideally the handle should be located near the lower edge of the bottom door to ensure that it is within easy reach. AVENTOS HF can also be used on doors without handles (where the bottom door slightly overhangs the underside of the cabinet).

## AVENTOS planning tools

Blum has downloadable Excel® spreadsheets that provide the required parts and calculate the mounting locations for your application. They are available at <http://www.blum.com/us/planning>



## Easy installation and adjustment

The three-dimensional adjustment feature enables doors to be precisely aligned.



## No protruding parts

There are no protruding parts thanks to the removable telescopic arm. This ensures safety during manufacturing, transport and installation.



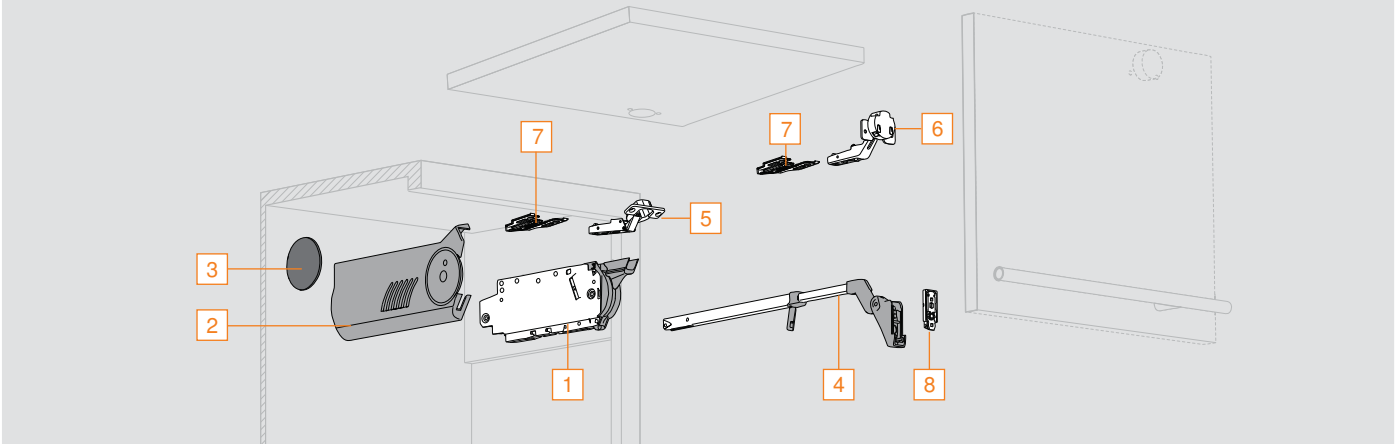
## Includes a finger safety feature

The CLIP top bottom door hinge has an innovative “release” feature that ensures finger safety.

# AVENTOS HF — Face frame cabinets

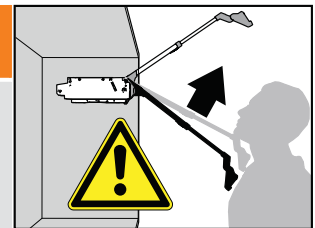
## Ordering parts for wood or wide aluminum doors

### Required components



**Warning: Risk of injury by spring-loaded telescopic arm!**

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



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

#### Determine power factor

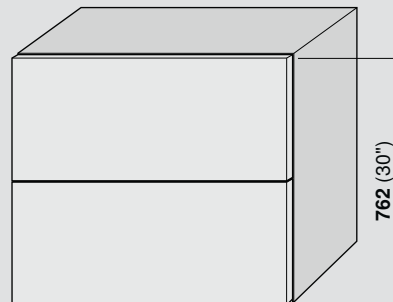
To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

$$\text{Power factor} = \text{cabinet height (inch)} \times \text{combined door weight}^* (\text{lb})$$

\* including handle weight

#### Example:

Cabinet height: 30" (within possible range)  
 Combined door weight = 23 lb 14 oz (14 oz = .9 lb see chart below)  
 Weight converted to decimal is 23.9 lb  
 Power factor = cabinet height multiplied by combined door weight\*  
 Power factor = 30 x 23.9  
 Power factor = 717  
 A power factor of 717 requires lift mechanism 20F2500.NA

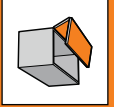


Combined door weight\* = 23 lb 14 oz

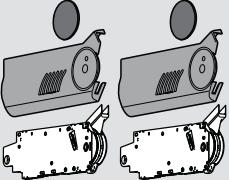
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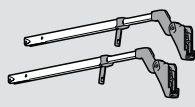
#### Weight conversion chart

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 2 — Select the required components

Lift mechanism set												
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>1 Lift mechanism (qty 2)</li> <li>2 Cover plate (left and right)</li> <li>3 Symmetrical cover cap (qty 2)</li> </ul> <p><b>Also includes:</b></p> <ul style="list-style-type: none"> <li>■ SCHR 4X35 — #7 x 35 mm (1-3/8") wood screw (qty 10)</li> </ul>											
	<table border="1"> <thead> <tr> <th>Power factor</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>85 — 230 (1 lift mechanism req.)</td> <td>20F2200.NA</td> </tr> <tr> <td>231 — 470</td> <td>20F2200.NA</td> </tr> <tr> <td>471 — 880</td> <td>20F2500.NA</td> </tr> <tr> <td>780 — 1440</td> <td>20F2800.NA</td> </tr> <tr> <td>1401 — 2300 (3 lift mechanisms req.)</td> <td>20F2800.NA</td> </tr> </tbody> </table>	Power factor	Part no.	85 — 230 (1 lift mechanism req.)	20F2200.NA	231 — 470	20F2200.NA	471 — 880	20F2500.NA	780 — 1440	20F2800.NA	1401 — 2300 (3 lift mechanisms req.)
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1401 — 2300 (3 lift mechanisms req.)	20F2800.NA											
<p><b>NOTE:</b> Trial application recommended when the required power factor is in a borderline area of lift mechanisms</p>												

Telescopic arm set										
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>4 Telescopic arm (qty 2)</li> </ul>									
	<table border="1"> <thead> <tr> <th>Cabinet height</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>479 (18-7/8") — 558 (22")</td> <td>20F3200</td> </tr> <tr> <td>558 (22") — 686 (27")</td> <td>20F3500</td> </tr> <tr> <td>686 (27") — 889 (35")</td> <td>20F3800</td> </tr> <tr> <td>889 (35") — 1067 (42")</td> <td>20F3900</td> </tr> </tbody> </table>	Cabinet height	Part no.	479 (18-7/8") — 558 (22")	20F3200	558 (22") — 686 (27")	20F3500	686 (27") — 889 (35")	20F3800	889 (35") — 1067 (42")
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889 (35") — 1067 (42")	20F3900									
<p><b>NOTE:</b> One telescopic arm is required per lift mechanism</p>										

Wood or wide aluminum door hardware set	
<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>5 70T5580.TL — CLIP top 120 free swing hinge (qty 2)</li> <li>5 32.4630 — COMPACT 33 free swing hinge (qty 2)</li> <li>6 78Z5530T — CLIP top bottom door hinge (qty 2)</li> <li>7 130.1130.02 — COMPACT mounting plate (qty 2)</li> <li>7 175H6000 — Face frame adapter (qty 4)</li> <li>8 175H5400 — Telescopic arm mounting plate (qty 2)</li> </ul>	
<p><b>NOTE:</b> Three hinges and mounting plates are required for cabinet widths over 1219 (48") or combined door weight of 26.5 lb</p>	
Wood or wide aluminum hardware set	78Z5530TA5
Installation screw for wood doors	606N or 606P
Installation screw for wide aluminum doors	7072A

Mounting plate with bracket set	
<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li>■ Left and right mounting plate with bracket</li> </ul>	
<p>Part no.</p>	
Telescopic arm mounting plate with bracket set	175H5F00.01
Installation screw for wood doors	606N or 606P
Installation screw for wide aluminum doors	7072A

Recommended parts for tension adjustment	
Use of the POZI bit insert and bit holder is recommended when adjusting the tension of the lift mechanisms.	Part no.
#2 x 2" POZI bit insert	POZI BIT #2x2

## Step 3 — Prepare the cabinet

Proceed to cabinet preparation instructions	page 12
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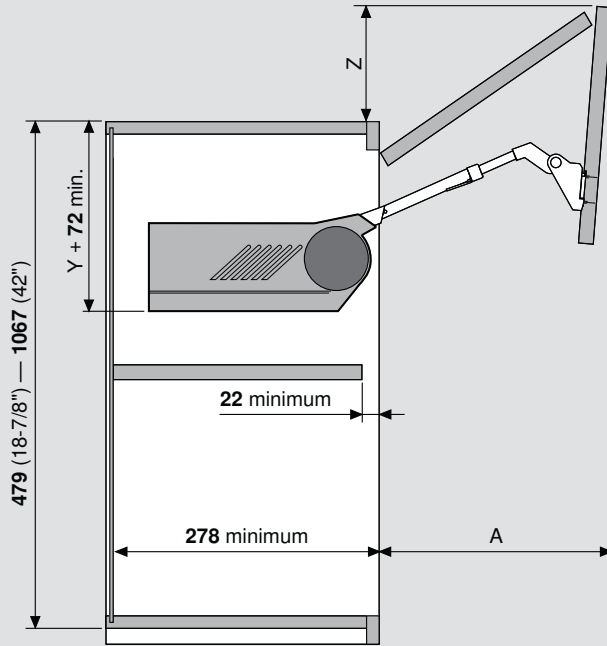
# AVENTOS HF — Face frame cabinets

## Cabinet preparation for wood or wide aluminum doors

### Step 1 — Check clearances

#### Space requirements

##### Door and hardware clearance

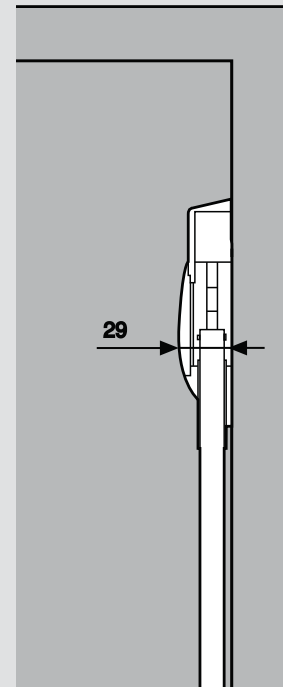


Y = See table below

Z = Top door height x .44 + 23

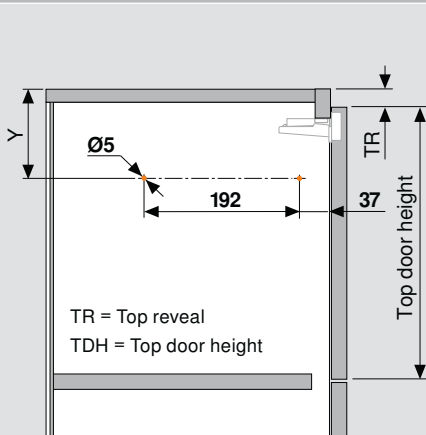
A = Top door height x .9 + (1.5 x bottom door thickness)

##### Lift mechanism clearance



### Step 2 — Mount the lift mechanisms

#### Bore for the locating pins

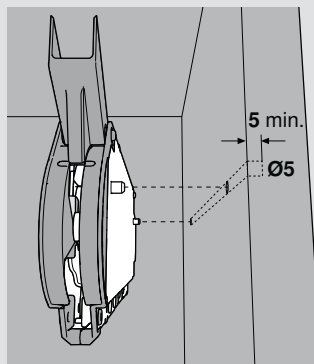


**NOTE:** Locating pin holes shown in orange

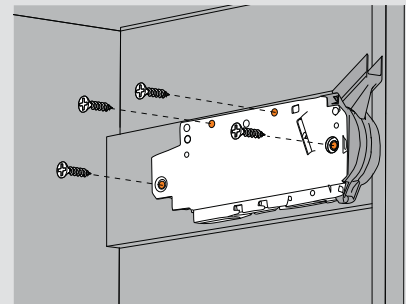
Top door height	Y
231 — 271	TDH x .6 minus 28 + TR
272 — 531	TDH x .6 minus 57 + TR

#### Lift mechanism positioning and attachment

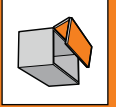
Two locating pins fit into Ø5 mm x 5 mm holes bored in the side of cabinet for proper positioning.



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



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



### Step 3 — Prepare the cabinet and doors for hinges

**CLIP top hinge**  
Top door hinge — small overlay

\* Bore at 3 then adjust 1

Overlay				
13*	14	15	16	17
3	3	4	5	6

B = bore distance

**COMPACT hinge**  
Top door hinge — large overlay

Overlay
32 (1-1/4")
3 (1/8")

B = bore distance

**CLIP top hinge**  
Bottom door hinge

Reveal			
6	5	4	3
3	4	5	6

B = bore distance

### Step 4 — Determine telescopic arm mounting plate position and attach to the bottom door

**Telescopic arm mounting plate location**

Top door height	X
231 — 271	Top door height x .5 + 68
272 — 531	Top door height x .5 + 45

**NOTE:** Three hinges are required for cabinet widths over 1219 (48") or 26.5 lb combined door weight

**Telescopic arm mounting plate choices**

**Mounting plate**

**Slab door**

ok

**Five-piece door**

ok

**Mounting plate with bracket**

**Five-piece door**

no

ok

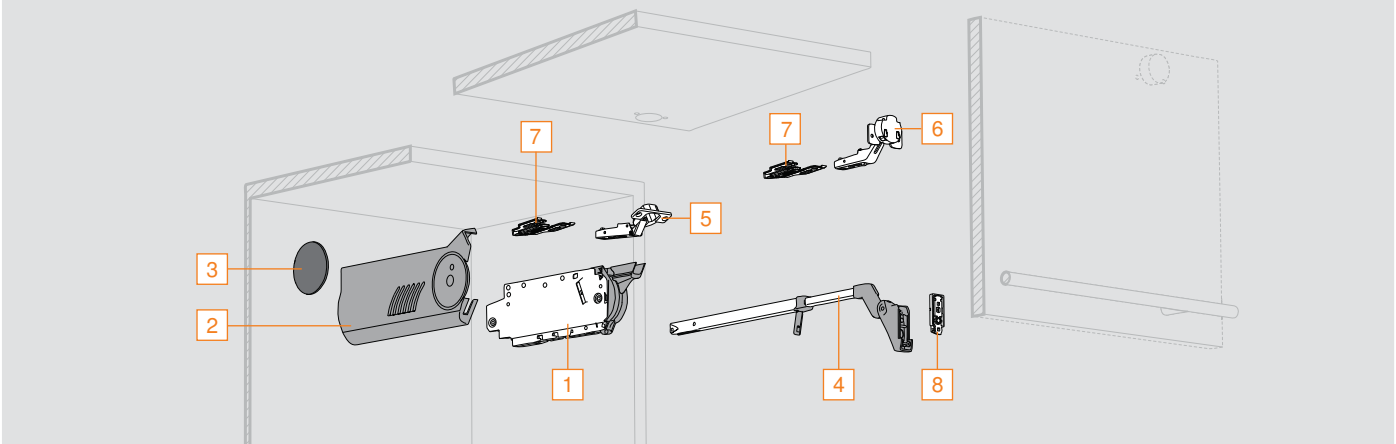
### Step 5 — Assemble the cabinet

Follow the assembly instructions included in the lift mechanism set or on [www.blum.com](http://www.blum.com)

# AVENTOS HF — Panel cabinets

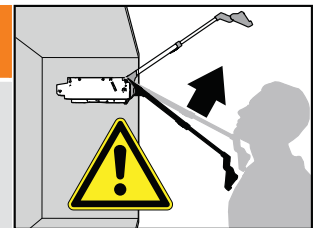
## Ordering parts for wood or wide aluminum doors

### Required components



**Warning: Risk of injury by spring-loaded telescopic arm!**

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



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

#### Determine power factor

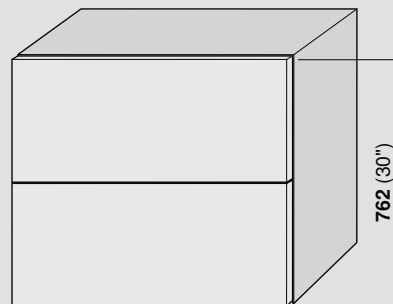
To select the correct lift mechanism for a given application, the power factor must first be calculated by using the formula below. Use the table at the bottom of the page to convert ounces into decimal form for easy calculation.

$$\text{Power factor} = \text{cabinet height (inch)} \times \text{combined door weight}^* (\text{lb})$$

\* including handle weight

#### Example:

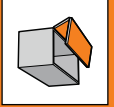
Cabinet height: 30" (within possible range)  
 Combined door weight = 23 lb 14 oz (14 oz = .9 lb see chart below)  
 Weight converted to decimal is 23.9 lb  
 Power factor = cabinet height multiplied by combined door weight\*  
 Power factor = 30 x 23.9  
 Power factor = 717  
 A power factor of 717 requires lift mechanism 20F2500.NA



**NOTE:** Excel® planning tools available at <http://www.blum.com/us/planning>

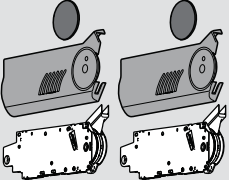
#### Weight conversion chart

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



## Step 2 — Select the required components

**Lift mechanism set**



**Set includes:**

- 1 Lift mechanism (qty 2)
- 2 Cover plate (left and right)
- 3 Symmetrical cover cap (qty 2)

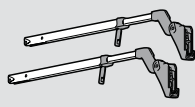
**Also includes:**

- SCHR 4X35 — #7 x 35 mm (1-3/8") wood screw (qty 10)

Power factor	Part no.
85 — 230 (1 lift mechanism req.)	20F2200.NA
231 — 470	20F2200.NA
471 — 880	20F2500.NA
780 — 1440	20F2800.NA
1401 — 2300 (3 lift mechanisms req.)	20F2800.NA

**NOTE:** Trial application recommended when the required power factor is in a borderline area of lift mechanisms

**Telescopic arm set**



**Set includes:**

- 4 Telescopic arm (qty 2)

Cabinet height	Part no.
<b>479</b> (18-7/8") — <b>558</b> (22")	20F3200
<b>558</b> (22") — <b>686</b> (27")	20F3500
<b>686</b> (27") — <b>889</b> (35")	20F3800
<b>889</b> (35") — <b>1067</b> (42")	20F3900

**NOTE:** One telescopic arm is required per lift mechanism

**Wood or wide aluminum door hardware set**

**Set includes:**

- 5 70T5580.TL — CLIP top 120 free swing hinge (qty 2)
- 5 32.4630 — COMPACT 33 free swing hinge (qty 2)
- 6 78Z5530T — CLIP top bottom door hinge (qty 2)
- 7 130.1130.02 — COMPACT mounting plate (qty 2)
- 7 175H6000 — Face frame adapter (qty 4)
- 8 175H5400 — Telescopic arm mounting plate (qty 2)

**NOTE:** Three hinges and mounting plates are required for cabinet widths over **1219** (48") or combined door weight of 26.5 lb

Wood or wide aluminum hardware set	78Z5530TA5
Installation screw for wood doors	606N or 606P
Installation screw for wide aluminum doors	7072A

**Recommended parts for tension adjustment**

Use of the POZI bit insert and bit holder is recommended when adjusting the tension of the lift mechanisms.	Part no.
#2 x 2" POZI bit insert	POZI BIT #2x2

## Step 3 — Prepare the cabinet

**Proceed to cabinet preparation instructions** page 16

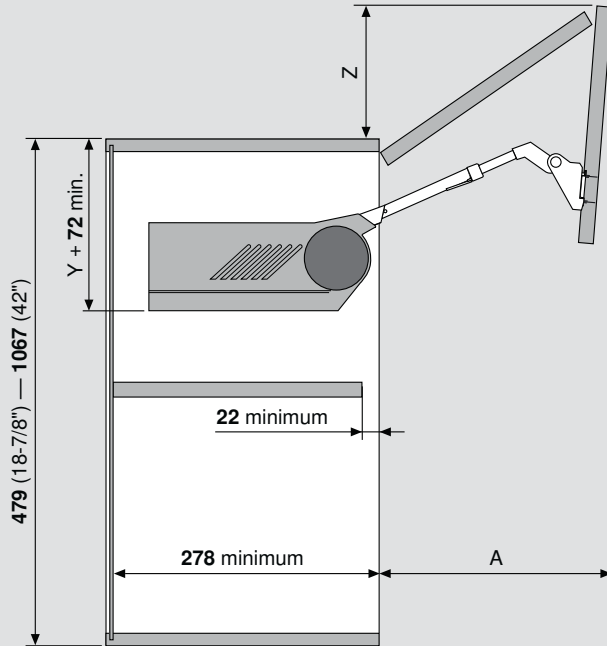
# AVENTOS HF — Panel cabinets

## Cabinet preparation for wood or wide aluminum doors

### Step 1 — Check clearances

#### Space requirements

##### Door and hardware clearance

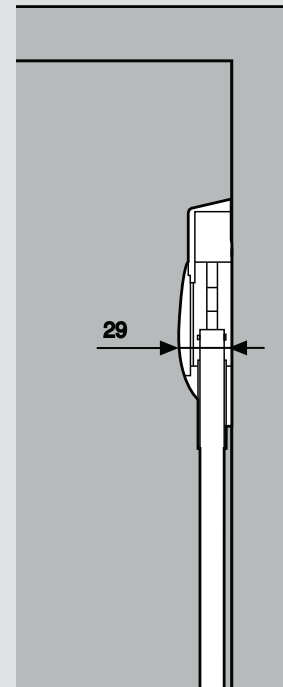


Y = See table below

Z = Top door height x .44 + 23

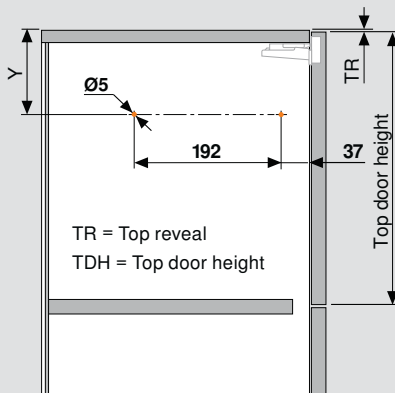
A = Top door height x .9 + (1.5 x bottom door thickness)

##### Lift mechanism clearance



### Step 2 — Mount the lift mechanisms

#### Bore for the locating pins

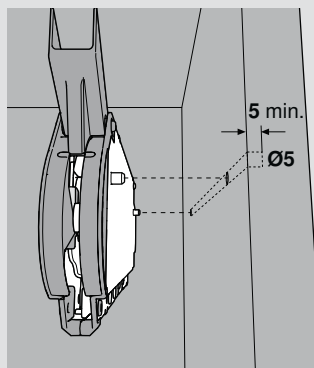


**NOTE:** Locating pin holes shown in orange

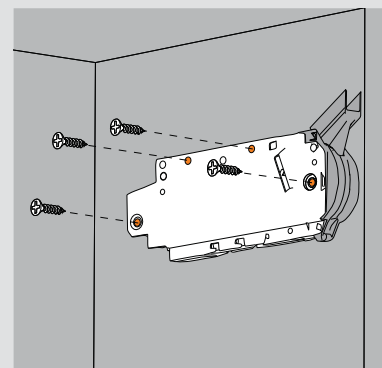
Top door height	Y
231 — 271	TDH x .6 minus 28 + TR
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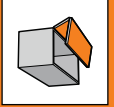
#### Lift mechanism positioning and attachment

Two locating pins fit into Ø5 mm x 5 mm holes bored in the side of cabinet for proper positioning.



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





### Step 3 — Prepare the cabinet and doors for hinges

**CLIP top hinge**  
Top door hinge

\* Bore at **3** then adjust **1**

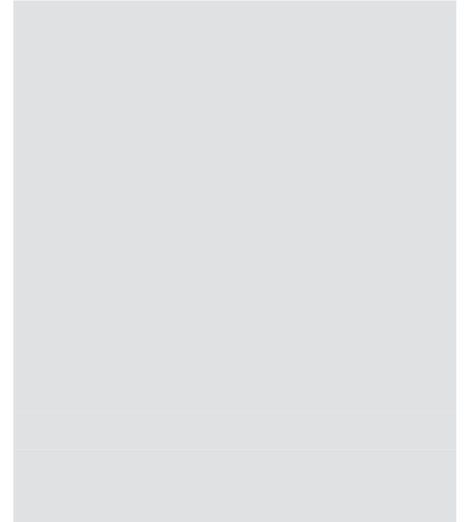
Overlay				
13*	14	15	16	17
3	3	4	5	6

B = bore distance

**CLIP top hinge**  
Bottom door hinge

Reveal			
6	5	4	3
3	4	5	6

B = bore distance



### Step 4 — Determine telescopic arm mounting plate position and attach to the bottom door

**Telescopic arm mounting plate location**

Top door height	X
231 — 271	Top door height x .5 + 68
272 — 531	Top door height x .5 + 45

**NOTE:** Three hinges are required for cabinet widths over 1219 (48") or 26.5 lb combined door weight

**Telescopic arm mounting plate choices**

Mounting plate

Slab door

Five-piece door

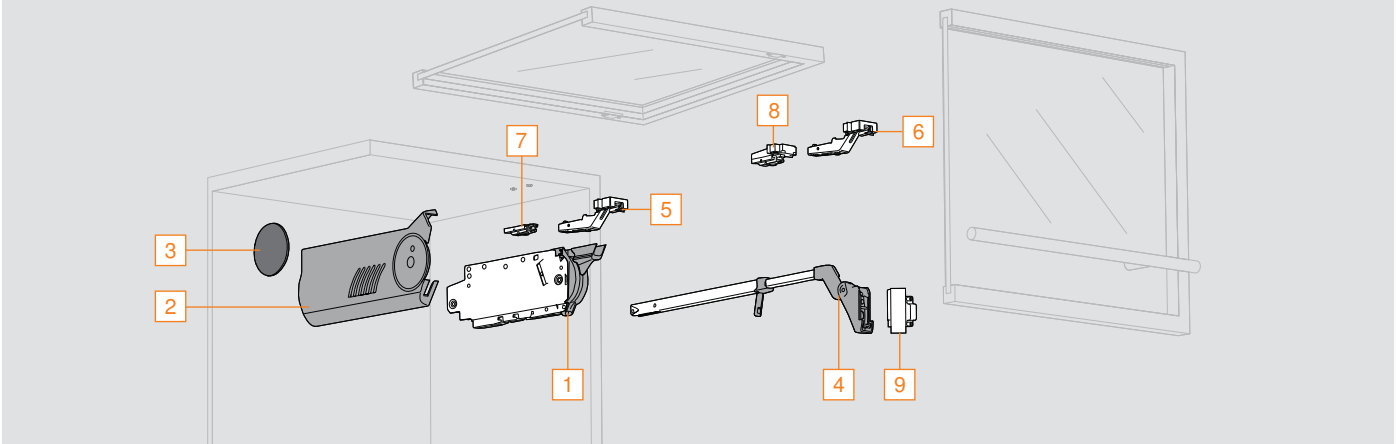
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# AVENTOS HF — Panel cabinets

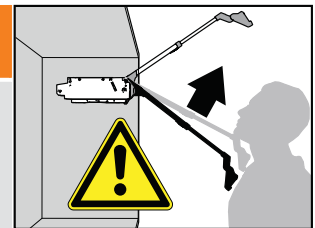
## Ordering parts for narrow aluminum doors

### Required components



**Warning: Risk of injury by spring-loaded telescopic arm!**

- Do not push telescopic arm down
- Remove telescopic arm from mechanism before installing cabinet



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

#### Determine power factor

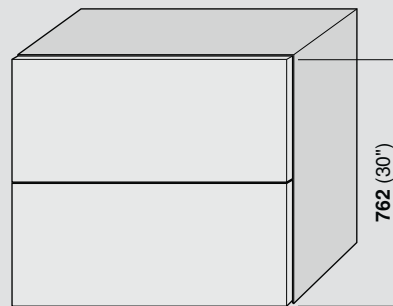
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#### Example:

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 A power factor of 717 requires lift mechanism 20F2500.NA

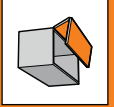


Combined door weight\* = 23 lb 14 oz

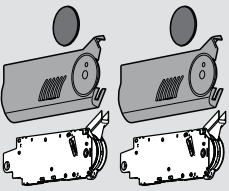
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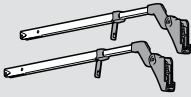
#### Weight conversion chart

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 2 — Select the required components

Lift mechanism set										
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li><b>1</b> Lift mechanism (qty 2)</li> <li><b>2</b> Cover plate (left and right)</li> <li><b>3</b> Symmetrical cover cap (qty 2)</li> </ul> <p><b>Also includes:</b></p> <ul style="list-style-type: none"> <li>■ SCHR 4X35 — #7 x 35 mm (1-3/8") wood screw (qty 10)</li> </ul>									
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<p><b>NOTE:</b> Trial application recommended when the required power factor is in a borderline area of lift mechanisms</p>										

Telescopic arm set										
	<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li><b>4</b> Telescopic arm (qty 2)</li> </ul>									
	<table border="1"> <thead> <tr> <th>Cabinet height</th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td><b>479</b> (18-7/8") — <b>558</b> (22")</td> <td><b>20F3200</b></td> </tr> <tr> <td><b>558</b> (22") — <b>686</b> (27")</td> <td><b>20F3500</b></td> </tr> <tr> <td><b>686</b> (27") — <b>889</b> (35")</td> <td><b>20F3800</b></td> </tr> <tr> <td><b>889</b> (35") — <b>1067</b> (42")</td> <td><b>20F3900</b></td> </tr> </tbody> </table>	Cabinet height	Part no.	<b>479</b> (18-7/8") — <b>558</b> (22")	<b>20F3200</b>	<b>558</b> (22") — <b>686</b> (27")	<b>20F3500</b>	<b>686</b> (27") — <b>889</b> (35")	<b>20F3800</b>	<b>889</b> (35") — <b>1067</b> (42")
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<p><b>NOTE:</b> One telescopic arm is required per lift mechanism</p>										

Narrow aluminum door hardware set							
<p><b>Set includes:</b></p> <ul style="list-style-type: none"> <li><b>5</b> 72T550A.TL — CLIP top free swing narrow aluminum top door hinge (qty 2)</li> <li><b>6</b> 78Z550AT — CLIP top narrow aluminum bottom door hinge (qty 2)</li> <li><b>7</b> 175H5400 — Top door mounting plate (qty 2)</li> <li><b>8</b> 175H5A00 — Bottom door mounting plate (qty 2)</li> <li><b>9</b> 175H5B00 — Telescopic arm mounting plate</li> <li>■ 699.110 — Aluminum screw for the bottom door mounting plate and telescopic arm mounting plate (qty 8)</li> </ul>	<p><b>NOTE:</b> Three hinges and mounting plates are required for cabinet widths over <b>1219</b> (48") or combined door weight of 26.5 lb</p>						
	<table border="1"> <thead> <tr> <th></th> <th>Part no.</th> </tr> </thead> <tbody> <tr> <td>Narrow aluminum hardware set</td> <td><b>78Z5530TA5</b></td> </tr> <tr> <td>Installation screw for top mounting plate</td> <td><b>629.170</b></td> </tr> </tbody> </table>		Part no.	Narrow aluminum hardware set	<b>78Z5530TA5</b>	Installation screw for top mounting plate	<b>629.170</b>
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Narrow aluminum hardware set	<b>78Z5530TA5</b>						
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Recommended parts for tension adjustment	
Use of the POZI bit insert and bit holder is recommended when adjusting the tension of the lift mechanisms.	Part no.
	#2 x 2" POZI bit insert <b>POZI BIT #2x2</b>

## Step 3 — Prepare the cabinet

<b>Proceed to cabinet preparation instructions</b>	<b>page 20</b>
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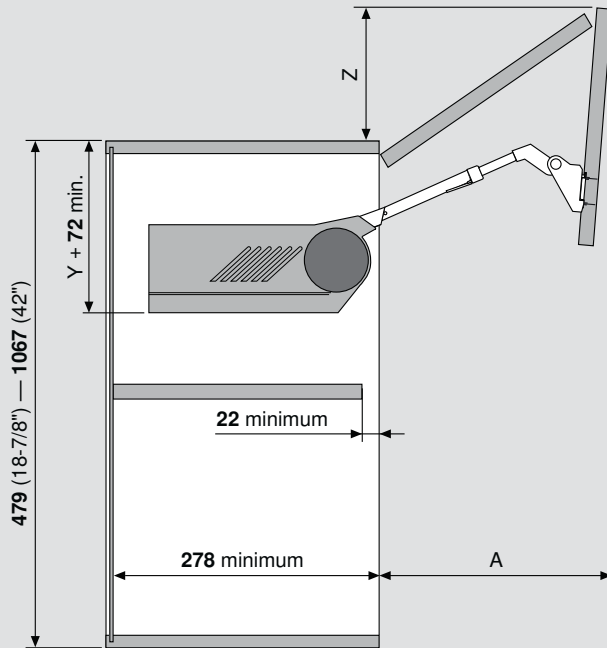
# AVENTOS HF — Panel cabinets

## Cabinet preparation for narrow aluminum doors

### Step 1 — Check clearances

#### Space requirements

##### Door and hardware clearance

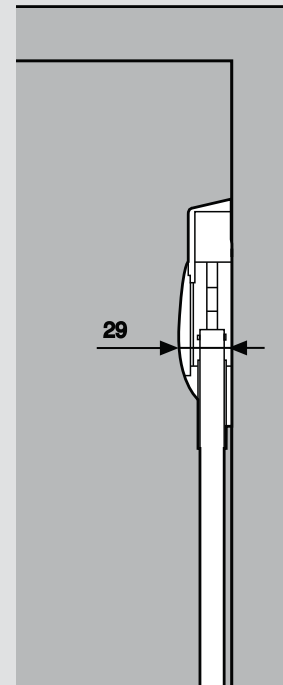


Y = See table below

Z = Top door height x .44 + 23

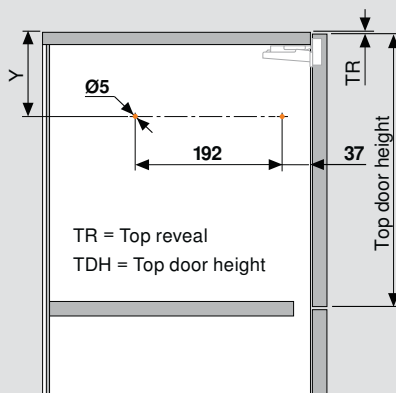
A = Top door height x .9 + (1.5 x bottom door thickness)

##### Lift mechanism clearance



### Step 2 — Mount the lift mechanisms

#### Bore for the locating pins

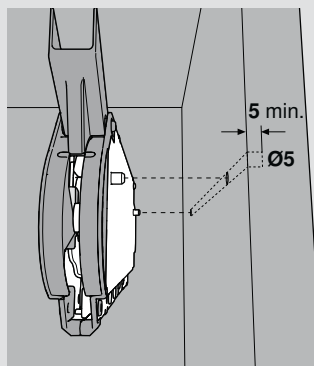


**NOTE:** Locating pin holes shown in orange

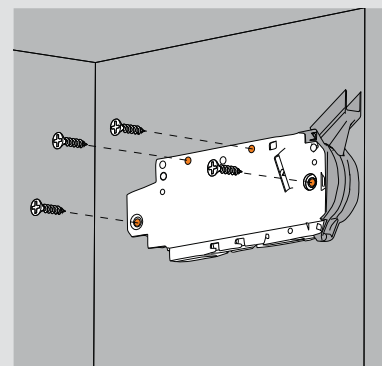
Top door height	Y
231 — 271	TDH x .6 minus 28 + TR
272 — 531	TDH x .6 minus 57 + TR

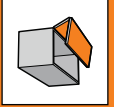
#### Lift mechanism positioning and attachment

Two locating pins fit into Ø5 mm x 5 mm holes bored in the side of cabinet for proper positioning.



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





### Step 3 — Prepare the cabinet and doors for hinges

**CLIP top aluminum door hinge**  
Top door hinge

\* Bore at 3 then adjust 1

Overlay				
13*	14	15	16	17
3	3	4	5	6

B = bore distance

**CLIP top hinge**  
Bottom door hinge

Reveal			
6	5	4	3
3	4	5	6

B = bore distance

### Step 4 — Determine telescopic arm mounting plate position and attach to the bottom door

**Telescopic arm mounting plate location**

Top door height	X
231 — 271	Top door height x .5 + 70
272 — 531	Top door height x .5 + 47

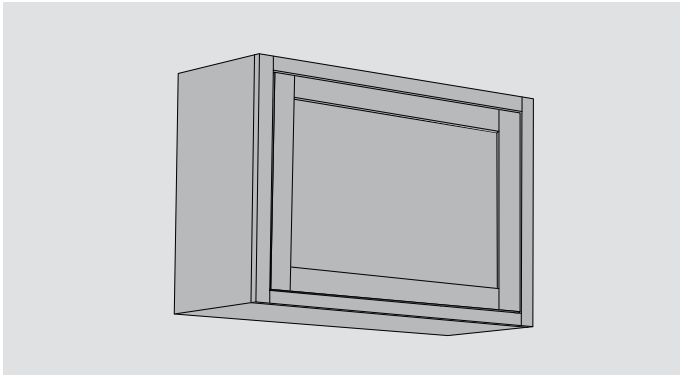
**NOTE:** Three hinges are required for cabinet widths over 1219 (48") or 26.5 lb combined door weight

**Hinge and mounting plate attachment**

### Step 5 — Assemble the cabinet

Follow the assembly instructions included in the lift mechanism set or on [www.blum.com](http://www.blum.com)

# AVENTOS — Inset applications



## Face frame inset application

When it comes to inset cabinets and AVENTOS there are many ways to accomplish this application. Below is an option that can be used for both face frame and panel cabinets alike.

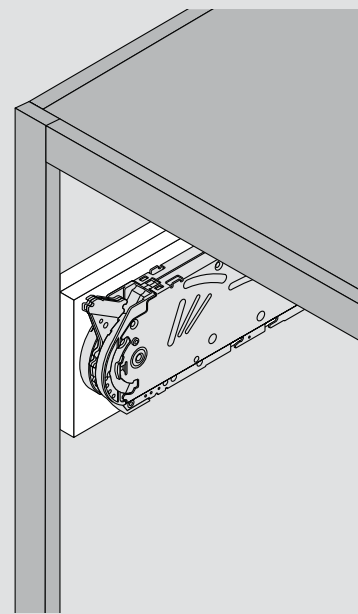
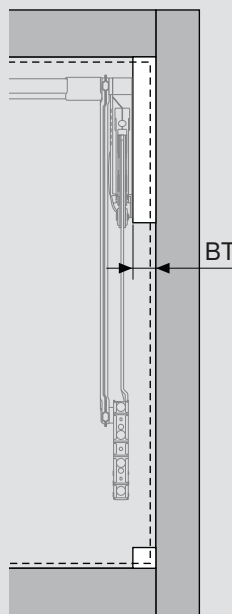
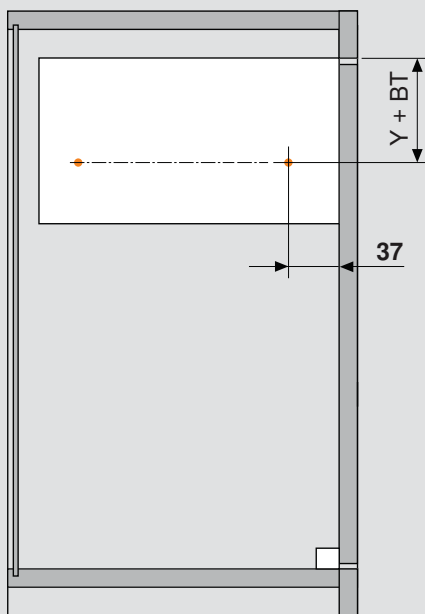
## Face frame cabinets

### Planning information for blocking-out

The illustrations below show the idea of blocking-out the interior of a face frame cabinet to obtain the needed space required for AVENTOS. By blocking-out the interior of the cabinet to protrude into the cabinet opening, we have moved the AVENTOS lift mechanism far enough into the opening for the arm assembly to clear the frame of the cabinet.

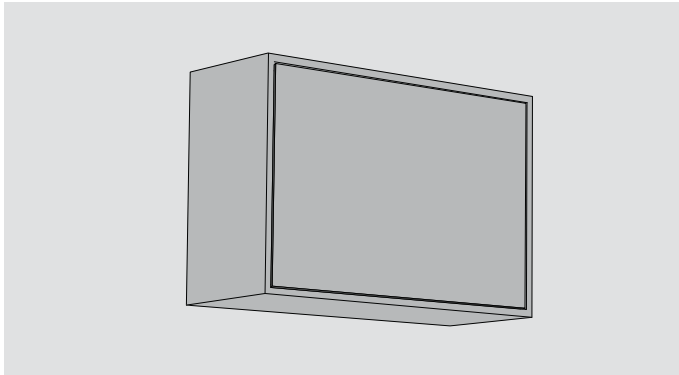
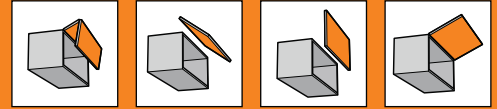
In this illustration the **37** setback for the  $\text{Ø}5 \times 5$  locating pin holes is measured from the back of the door (or back edge of face frame). The Y dimension is determined by the selected AVENTOS lift system.

This illustration shows how the block-out provides the needed clearance for the lift mechanism and also provides a stopping point for the door.



**NOTE:** Y varies depending on AVENTOS lift system selected. (see cabinet preparation pages for selected AVENTOS)

BT = block-out thickness



**Panel inset application**

When it comes to inset cabinets and AVENTOS there are many ways to accomplish this application. Below is an option that can be used for both face frame and panel cabinets alike.

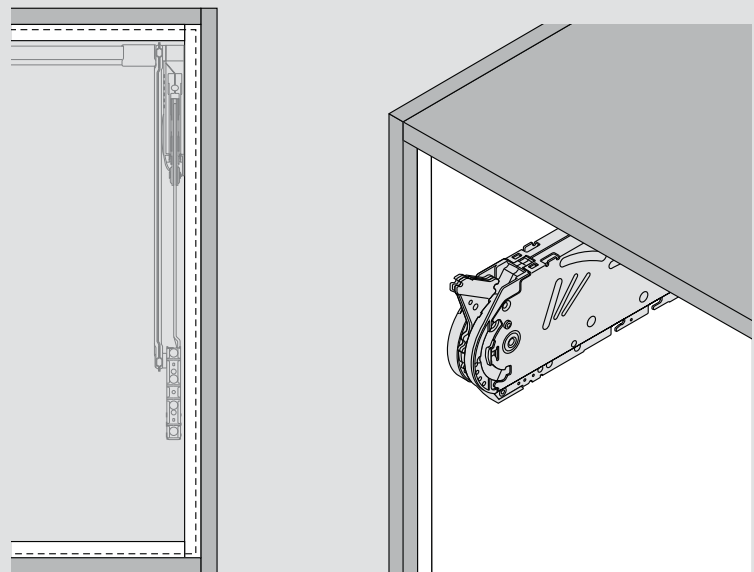
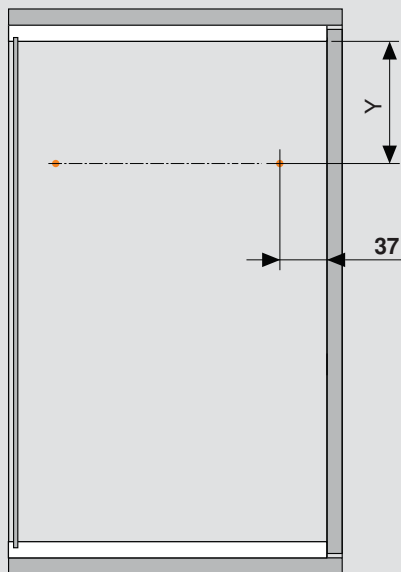
**Panel cabinets**

**Planning information for cabinet-within-cabinet**

The below illustrations show the idea of building a cabinet within a cabinet to obtain the needed space required for AVENTOS. By either building a smaller cabinet within or adding panels to the outside of a cabinet, you have made it possible to simulate the look of an inset cabinet.

In this illustration the **37** setback for the **Ø5 x 5** locating pin holes is measured from the back of the door (or front edge of the interior cabinet). The Y dimension is determined by the selected AVENTOS lift system.

This illustration shows how the interior cabinet is simply an overlay cabinet that is set back the thickness of the door front and bumper. This also provides a stopping point for the door.



**NOTE:** Y varies depending on AVENTOS lift system selected. (see cabinet preparation pages for selected AVENTOS)

**NOTE:** The top and bottom panels of the inner cabinet are optional but their intended thickness are needed for calculating the Y dimension for the lift mechanism.