

**SALICE** WIND Lift System - Soft Close Kits**WIND LIFT**

A compact adjustable lift system that takes up a minimum of valuable storage space. The color coded springs makes inventory control and selection easy to understand. Installation on the door is as simple as boring a 35mm hinge cup hole.

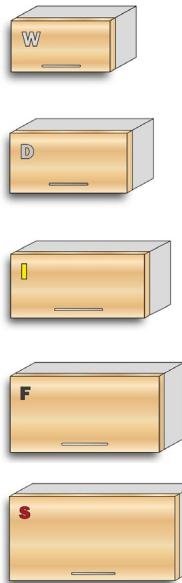
Wind kits consist of a right and left mechanism, 2 door cups and a right and left mechanism housing. A Wind cover kit (Gray with nickel cover cap) will get added to the order automatically, although other colors are available. Note: The weight of the door must also be considered when selecting a lift system. See charts on the following pages for system selection by weight and door dimension.

- Integrated Soft Close feature; see Push to Open on page 806
- Spring Force adjustment, Soft Close adjustment
- Opening angle of 86 or 94 degrees
- Min door thickness: 5/8" (16mm), Max door thickness: 1-1/8" (28mm)
- Top overlay possibility: from 5/8" to 3/4"
- Edge bore distance on the door: 3 to 7mm
- Supplied with an angle reduction clip installed, reducing the opening angle to 86°. May be removed to achieve 94° if the 'K' boring distance on the door is 5mm or less
- Mechanism Adjustment:
 

Depth:	-1.0mm, +3.0mm
Side:	+2.0mm, -2.0mm
Height:	+2.0mm, -2.0mm

**Wind Mechanism Dimensions:**

1.5" W x 7.95" D x 2.25" H



Code	Door Height	Door Weight	Spring Color Code Combination	List/Set
WIND-W	Min: 8-5/8" Max: 15-3/4"	Min: 1.75 lbs. Max: 11.5 lbs.	(White Spring/ Free Swing)	\$ 86.02
WIND-D	Min: 8-5/8" Max: 24"	Min: 4 lbs. Max: 17 lbs.	(Yellow Spring/ Free Swing)	86.93
WIND-I	Min: 12-9/16" Max: 24"	Min: 10.5 lbs. Max: 21 lbs.	(Yellow Spring/ Yellow Spring)	136.45
WIND-F	Min: 12-9/16" Max: 24"	Min: 18.5 lbs. Max: 32 lbs.	(Black Spring/ Black Spring)	143.29
WIND-S	Min: 12-9/16" Max: 24"	Min: 26 lbs. Max: 41 lbs.	(Red Spring/ Red Spring)	142.96

**Cover Cap Sets, LH/RH**

WIND-COVER	Gray finish, nickel plated	\$ 6.96
WIND-COVER-SS	Stainless Steel finish, nickel plated	19.94
WIND-COVER-WH	White finish, nickel plated	14.21
WIND-COVER-BL	Satin Black finish, titanium plated	14.03

**WIND LIFT****Charts and Spring Force Identification for Wind Kits**

Use charts to determine the correct lift mechanism based on the door height and weight. When calculating the door weight you must include the weight of the decorative hardware. The maximum door width for two Wind lifts is 48" (1200mm).

Note: Wind can be used on doors that are larger or heavier by adding additional Wind lifts to the cabinet and door. This can be done by installing a center partition and adding additional Wind lifts or by utilizing the Top Mount Brackets with additional Wind lifts.

Find Weight of Your Door		(width in. X height in.) ÷ 144 = door sq/ft. door sq/ft X weight per sqft = door weight					
Thickness		Common material weight per sq/ft					
Inch	mm.	Particle Bd.	MDF	Plywood	Hardwood	Softwood	Glass
1/8"	3						1.6
5/32"	4						2.0
1/4"	6.4						3.2
5/16"	8						4.0
3/8"	9.5						4.8
1/2"	12.7	2.0	2.3	1.7			6.4
5/8"	16	2.5	2.9	2.1	2.3	1.6	8.0
3/4"	19	3.0	3.5	2.5	2.7	1.9	9.6
7/8"	22	3.5	4.2	2.9			
1"	25.4	4.0	4.7	3.3	3.6	2.5	
1 3/8"	35	5.5	6.4	4.6	5.0	3.4	

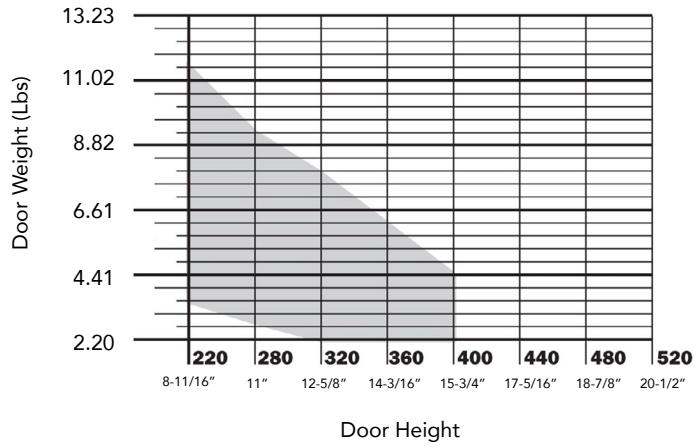
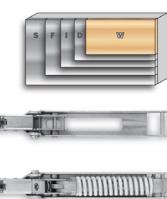
**Chart for WIND-W**

Min Door Height: 8-5/8"

Max Door Height: 15-3/4"

Min Door Weight: 1.75 lbs.

Max Door Weight: 11.5 lbs.

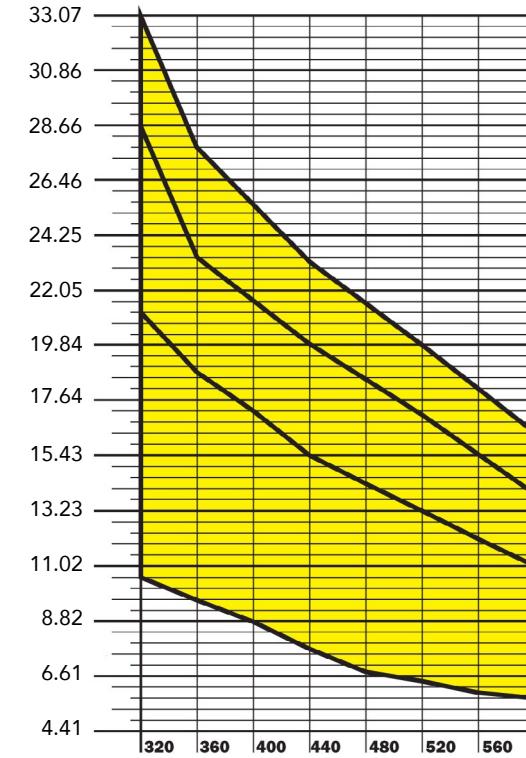
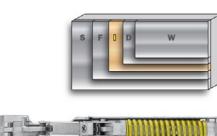
**Chart for WIND-I**

Min Door Height: 12-9/16"

Max Door Height: 24"

Min Door Weight: 10.5 lbs.

Max Door Weight: 21 lbs.

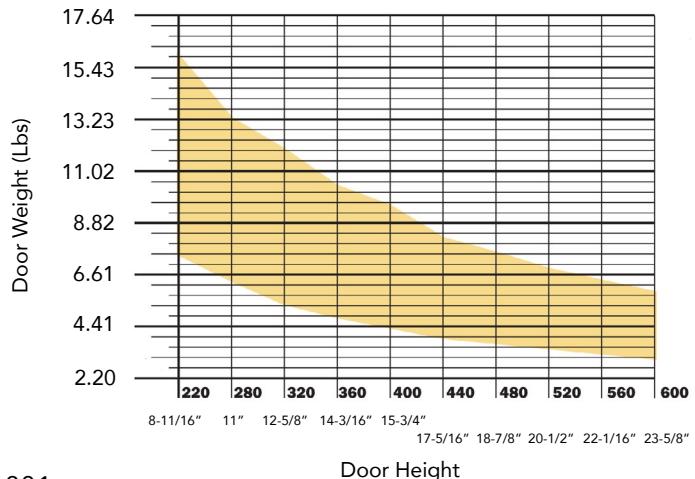
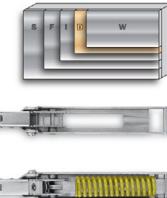
**Chart for WIND-D**

Min Door Height: 8-5/8"

Max Door Height: 24"

Min Door Weight: 4 lbs.

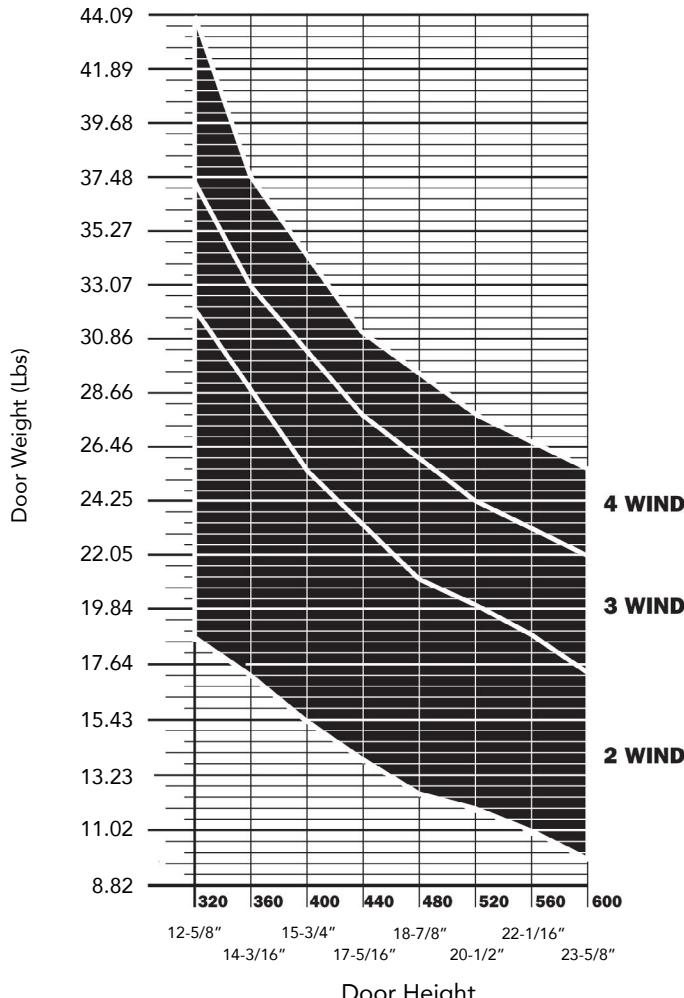
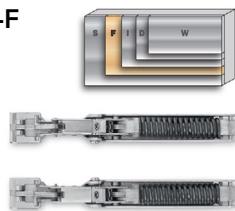
Max Door Weight: 17 lbs.



**SALICE****WIND LIFT****Chart for WIND-F**

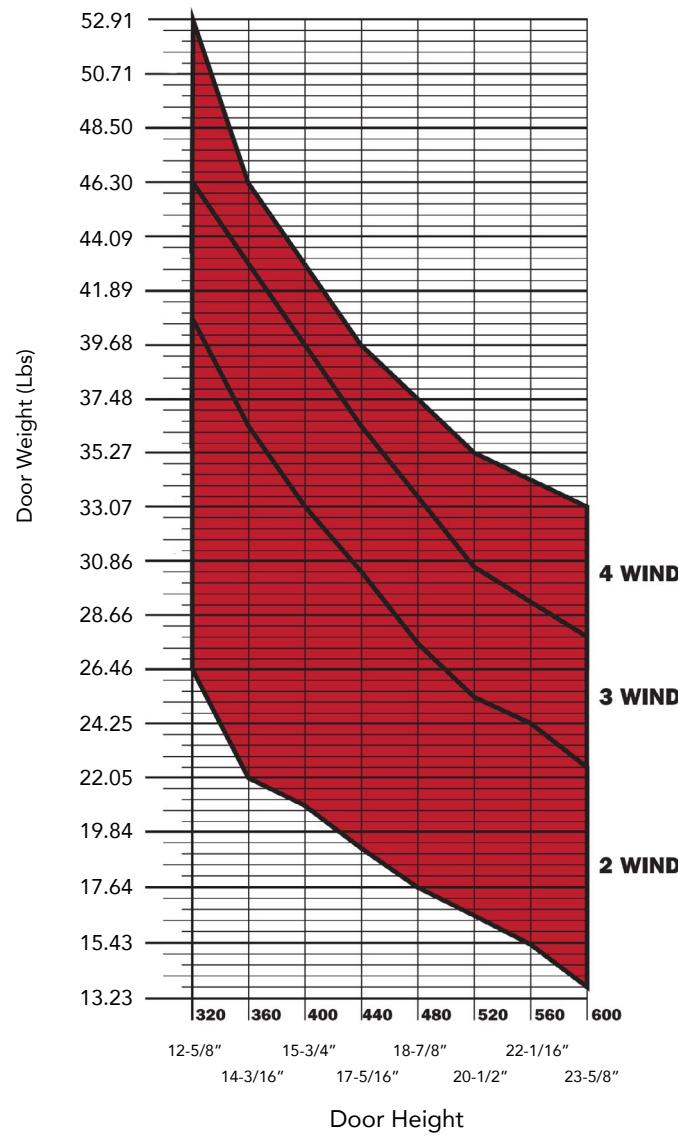
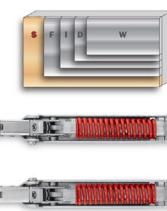
Min Door Height: 12-9/16"  
Max Door Height: 24"

Min Door Weight: 18.5 lbs.  
Max Door Weight: 32 lbs.

**Chart for WIND-S**

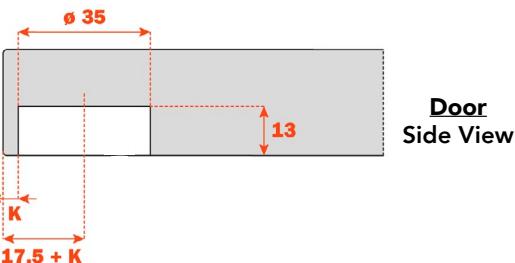
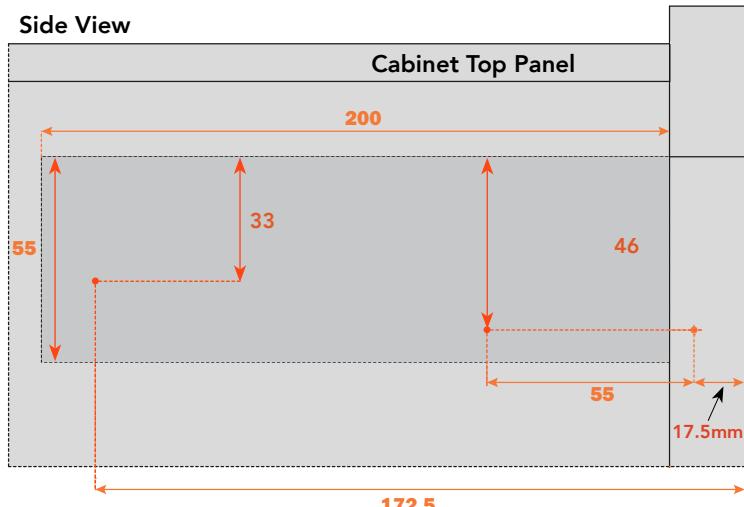
Min Door Height: 12-9/16"  
Max Door Height: 24"

Min Door Weight: 26 lbs.  
Max Door Weight: 41 lbs.

**Find Weight of the Door**

(width in. x height in.) ÷ 144 = door sq/ft  
door sq/ft x weight per sq/ft = door weight

Thickness		Common material weight per sq/ft					
Inch	mm.	Particle Bd.	MDF	Plywood	Hardwood	Softwood	Glass
1/8"	3						1.6
5/32"	4						2.0
1/4"	6.4						3.2
5/16"	8						4.0
3/8"	9.5						4.8
1/2"	12.7	2.0	2.3	1.7			6.4
5/8"	16	2.5	2.9	2.1	2.3	1.6	8.0
3/4"	19	3.0	3.5	2.5	2.7	1.9	9.6
7/8"	22	3.5	4.2	2.9			
1"	25.4	4.0	4.7	3.3	3.6	2.5	
1 3/8"	35	5.5	6.4	4.6	5.0	3.4	

**WIND Lift System****Face Frame Overlay Drilling Pattern****SALICE****Side View**

Bracket front edge is 3/8" in from front of opening

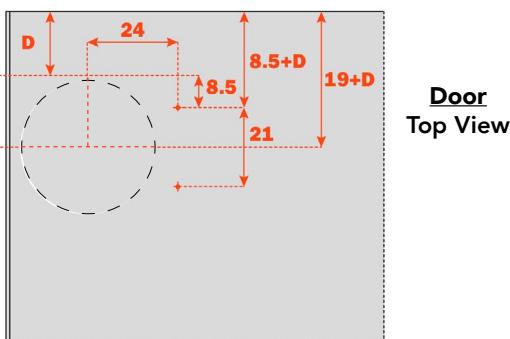
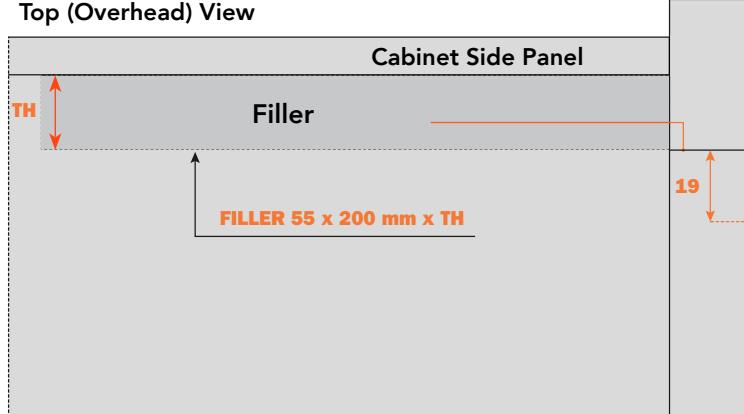
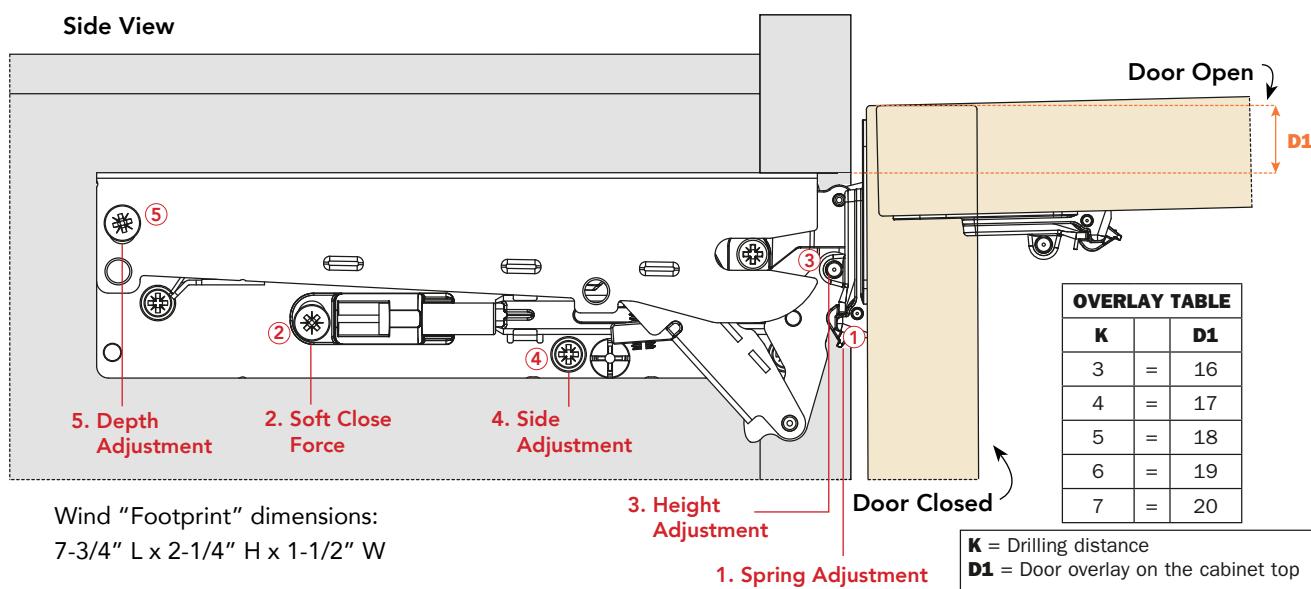
K = Drilling distance

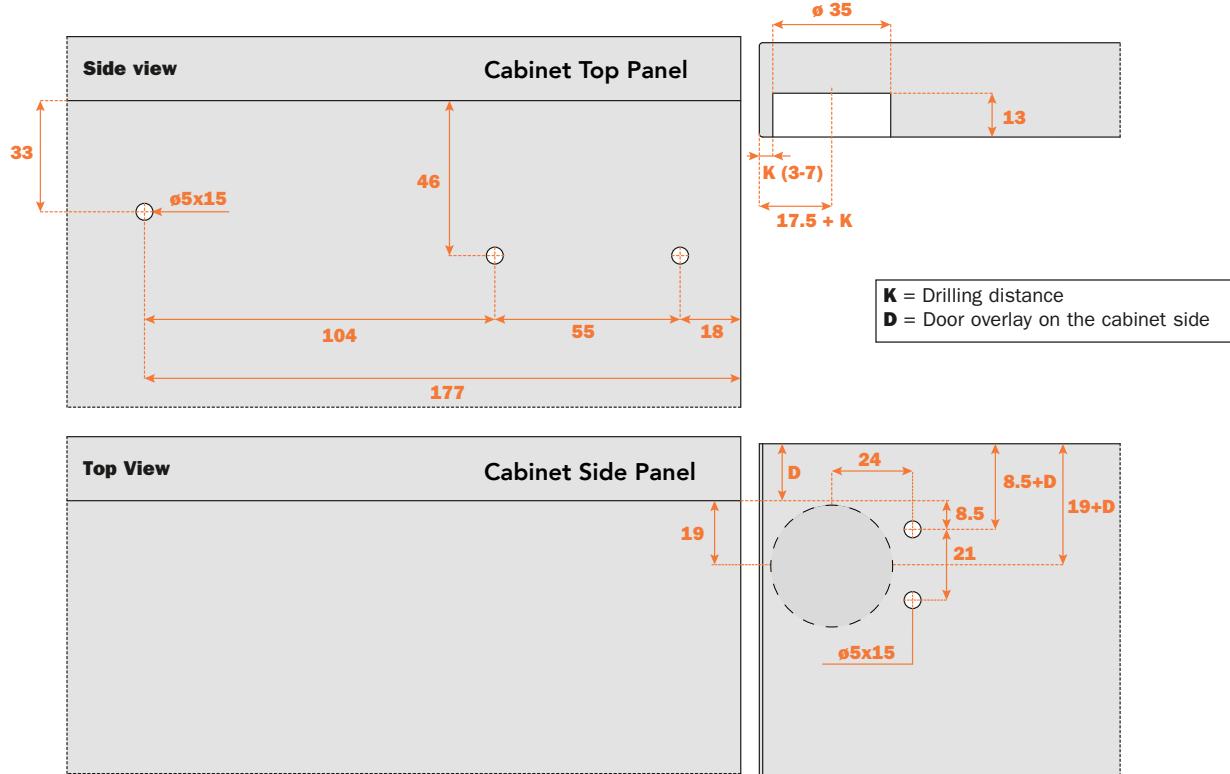
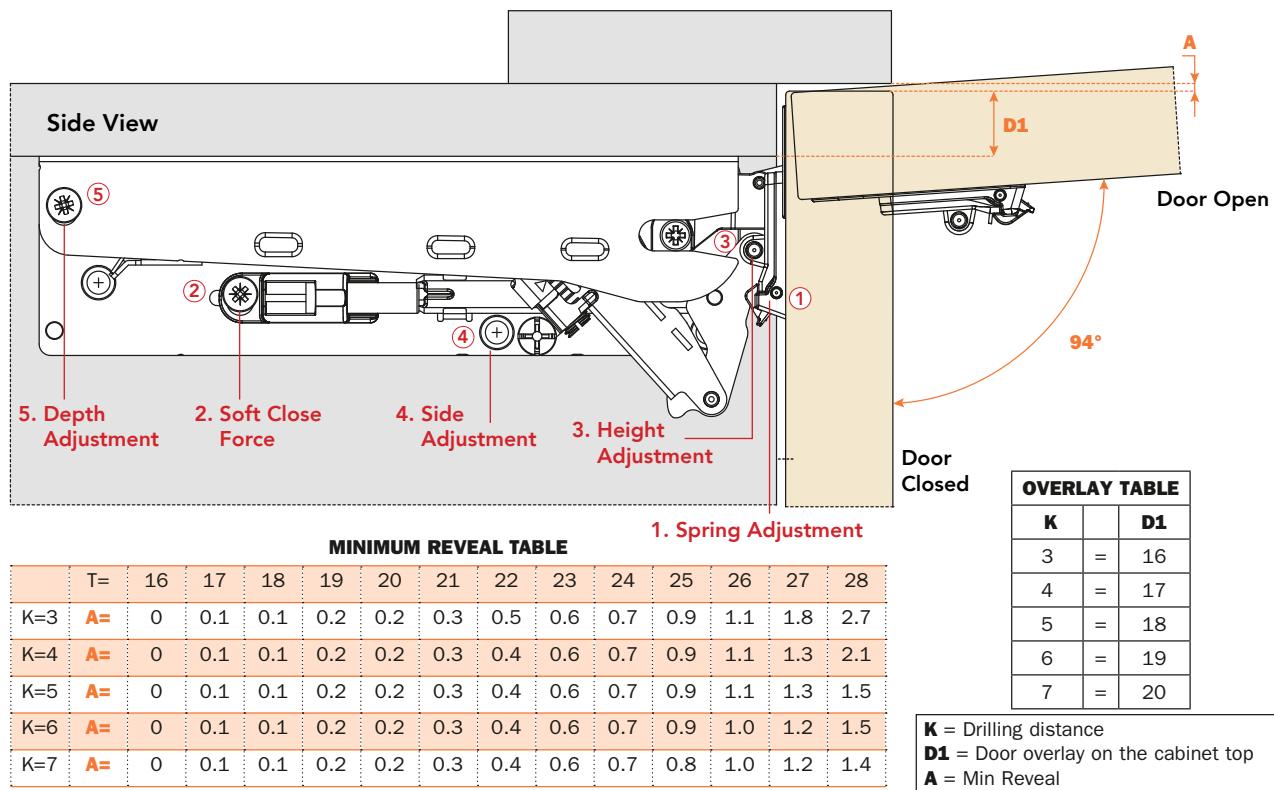
D = Door overlay on the cabinet side

33 = 1-1/4"

46 = 1-13/16"

17.5 = 11/16"

**Top (Overhead) View****Space needed to open the door****Side View**

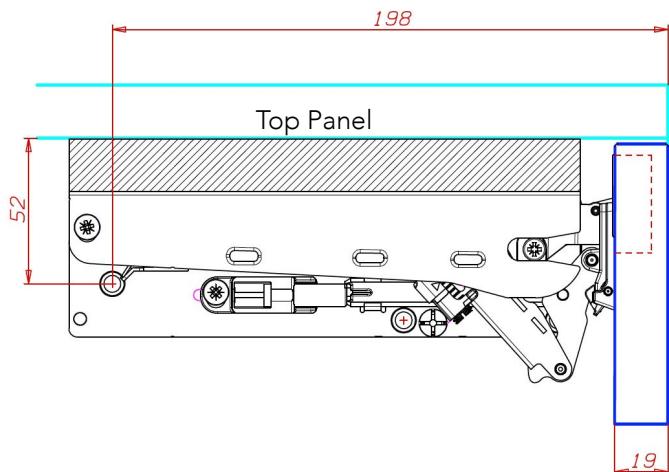
**SALICE****Frameless Overlay Drilling Pattern****WIND Lift System****Space needed to open the door**

**SALICE** WIND Lift System Cont.

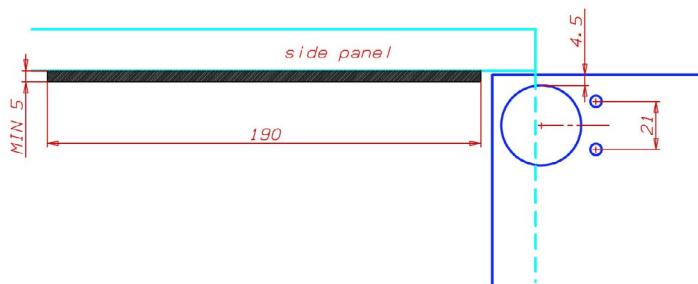
Installation continued

**For Inset Installation**

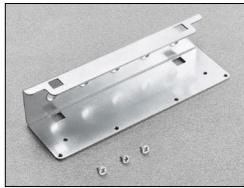
Side View



Top View



8

**OPTIONAL TOP MOUNT BRACKET SET**

WIND-TM

Bracket to be attached to the top of the cabinet for use with:

- Angled cabinets
- Wide or heavier doors
- 5 piece doors

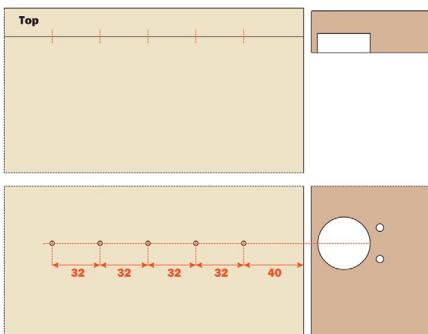
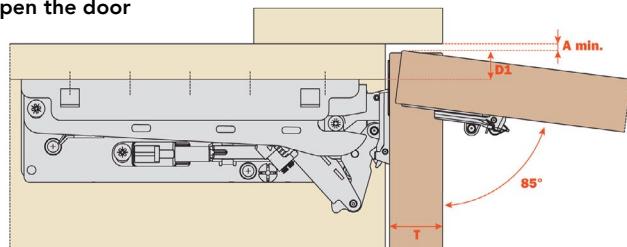
Note: When using the top mount bracket, the overlay is reduced by 3mm. Refer to the overlay chart below.

**Each set contains:**  
2 Top Mount Brackets and  
2 Top Mount Covers

Code	List/Set
WIND-TM	\$ 26.13

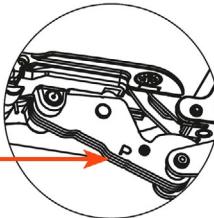


Top Mount Bracket w/ Cover

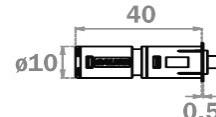
**Drilling Pattern****Space needed to open the door**

K	D1
3	= 13
4	= 14
5	= 15
6	= 16
7	= 17

	T=	16	17	18	19	20	21	22	23	24	25	26	27	28
K=3	<b>A = min</b>	0	0.1	0.1	0.2	0.2	0.3	0.5	0.6	0.7	0.9	1.1	1.8	2.7
K=4	<b>A = min</b>	0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	2.1
K=5	<b>A = min</b>	0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5
K=6	<b>A = min</b>	0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.9	1.0	1.2	1.5
K=7	<b>A = min</b>	0	0.1	0.1	0.2	0.2	0.3	0.4	0.6	0.7	0.8	1.0	1.2	1.4

**SALICE****WIND Lift System****PUSH****Push to Open Kits**

Wind lift mechanism without soft close device, but with a push to open feature using release devices and retaining catches.

**Magnetic Push Release Device****Magnetic Push Release Device**

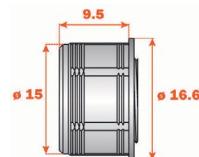
Release device to be used with DPMSNB for narrow cabinets (8-5/8" - 16")



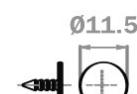
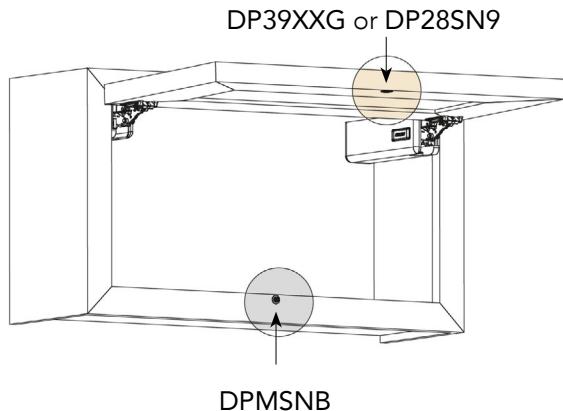
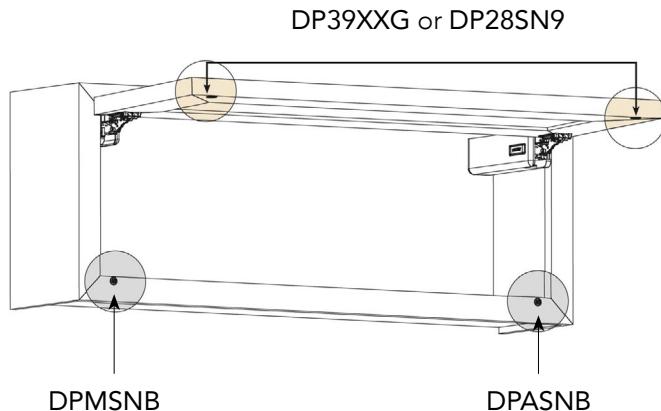
**DPASNB**  
Release Device

**DP39XXG Retaining Catch**

Adjustable Magnetic Strike Plate

**DP28SN9 Retaining Catch**

Mag plate w/ nail

**For Cabinets 16" - 24" (406mm - 610mm)****For Cabinets 8-5/8" - 16" (220mm - 406mm)**

<u>Code</u>	<u>Description</u>	<u>List/Set</u>	<u>Code</u>	<u>Description</u>	<u>List/ea</u>
WIND-WP	Push - White/Free	\$ 99.29	DPMSNB	Beige Push Release Device	\$ 10.49
WIND-DP	Push - Yellow/Free	99.83	DPASNB	Beige Push Release Device for narrow cabinets	9.57
WIND-IP	Push - Yellow/Yellow	166.23	DP39XXG	Adj. Magnetic Strike Plate	8.99
WIND-FP	Push - Black/Black	159.95	DP28SN9	Magnetic Plate w/ nail	\$ 15.43/C
WIND-SP	Push - Red/Red	155.00			
WIND-COVER	L/R Cover Cap set	6.96			

**PACTA HINGES****SALICE****PACTA: HINGES FOR DROP DOWN DOORS**

The Pacta hinge system for drop down doors has a soft opening with a controlled, gradual fall of the door. In the fully-open position, the door and cabinet bottom are aligned, creating a flat surface.

Available in either Soft Opening with Self-close feature, or Push to open for handle-less doors. Pacta covers are offered in a variety of finishes to complement and blend with any interior.

Applications include: kitchen & bathroom cabinets, living room furniture and can also be used to create desks or writing surfaces.

**Select the correct kit for the door size and weight using charts on following page.**

**All Kits:** Door Height: Min: 11", Max: 16",  
Door Thickness: Min: 5/8", Max: 1-1/8".

8

**Manual open, Self close, Soft down Pacta kits**

Kit includes: (2) Pacta self close hinges, (2) mounting plates, (2) smoves, (4) 5mm x 13mm euro screws, (2) #6 x 1" screws.

<u>Code</u>	<u>Description</u>	<u>Min. Door Weight</u>	<u>Max. Door Weight</u>	<u>List/kit</u>
PACTA-W	Type W, w/ Gray Smove	3 lbs.	9 lbs.	\$ 73.71
PACTA-I	Type I, w/ Tan Smove	7	15	74.64
PACTA-S	Type S, w/ Red Smove	9	21	76.34

**Self Close & Push Close Kit****Push open, Soft down Pacta kits**

Kit includes: (2) Pacta push hinges, (2) mounting plates, (2) smoves, (4) 5mm x 13mm euro screws, (2) #6 x 1" screws.

<u>Code</u>	<u>Description</u>	<u>Min. Door Weight</u>	<u>Max. Door Weight</u>	<u>List/kit</u>
PACTA-WP	Type W, w/ Gray Smove	3 lbs.	9 lbs.	\$ 74.13
PACTA-IP	Type I, w/ Tan Smove	7	15	71.50
PACTA-SP	Type S, w/ Red Smove	9	21	73.73

**Order Magnetic Release devices separately.**



**DPMSNB**  
Release Device  
\$ 10.49 /ea



**DPASN8**  
Release Device  
\$ 9.57 /ea



**DP39XXG Catch**  
Magnetic Strike Plate  
\$ 8.99 /ea



**DP28SN9 Catch**  
Mag plate w/ nail  
\$ 15.43 /C

**Color-coded Smove****Cover kits** Kit includes: 2 covers.

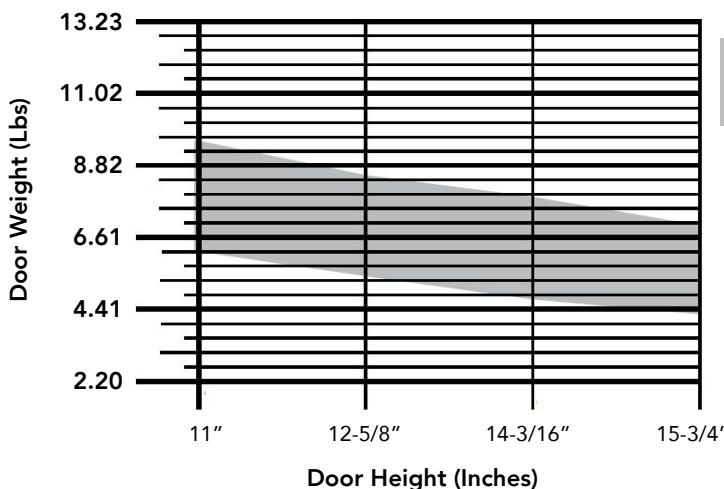
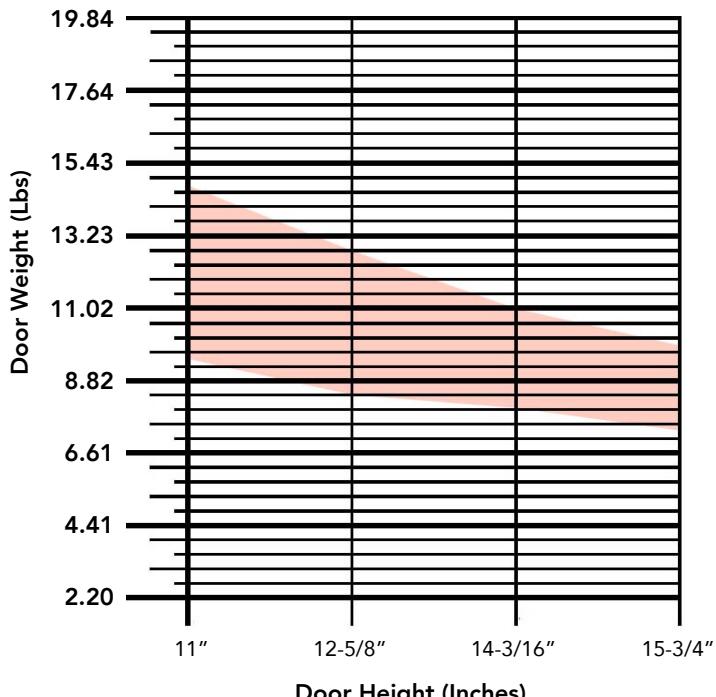
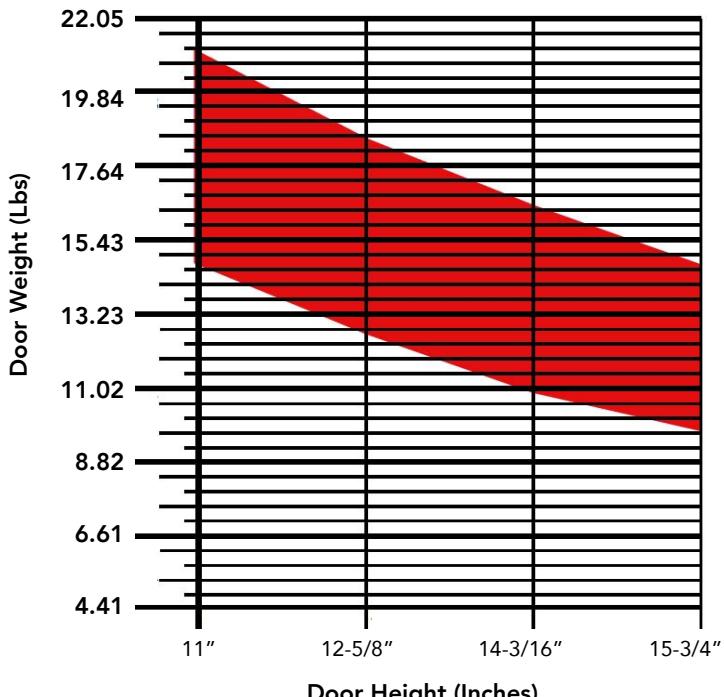
<u>Code</u>	<u>Description</u>	<u>List/kit</u>
PACTA-GRAY	Cover kit, "M" - Gray color	\$ 13.87
PACTA-WHITE	Cover kit, "1" - White color	21.31

**Cover Kit (2 covers)**

**SALICE****PACTA HINGES****PACTA: HINGE FOR DROP DOWN DOORS CONT.****Center Hinge kits** (required for doors 30" or wider. Fully cam adjustable.)

Kit includes: (1) hinge, (1) cover set (door &amp; cab), (4) 5mm x 10.5mm euro screws.

Code	Description	List/kit
PACTA-CH-GR	Center Hinge kit, "M" - Gray color	\$ 20.67
PACTA-CH-WH	Center Hinge kit, "1" - White color	23.64

**Center Hinge Kit****Door size and weight charts**Type W kit: Use One Smove (Gray)Type W kit: Two Smoves (Gray)Type I kit: Two Smoves (Tan)Type S kit: Two Smoves (Red)

## LIFT UP STAYS



## Lift Assist Lid Stay - Aileron System



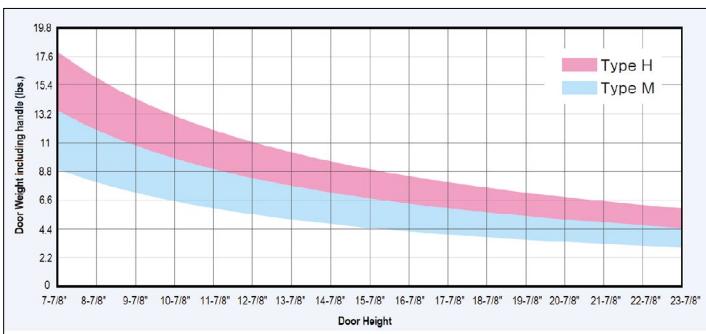
ARN-3



ARN-2

- Smooth door movement. Specially designed for use with the OLYMPIA concealed hinge
- Lift-assist function allows for light opening of doors
- Panel thickness: Min: 9/16" (15mm) ~ Max: 7/8" (22mm)
- Free-stop function enables doors to hold in position (30°–Max)
- Soft-close function makes doors close gently (0°–30° degrees)
- Integrated design combines a concealed hinge and lid stay
- Closing speed of doors is adjustable
- Nickel/grey finish

Each set includes the following components:

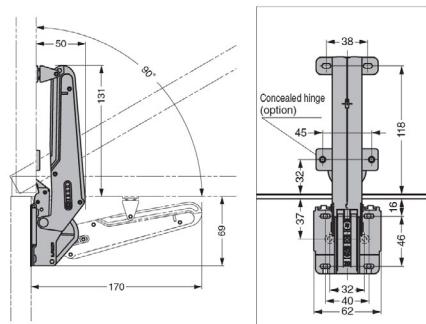


Refer to the above graph as a guide for model selection. For use with doors outside of the scope of this graph, use the calculation below. Door weight must include all attached accessories.

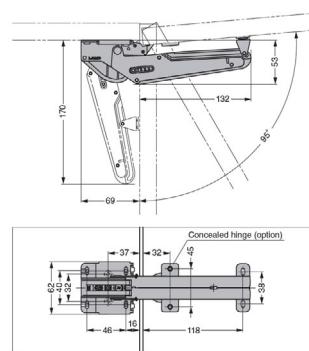
Torque (lbs • inch) =  
Door height (inches)  $\times$  0.5  $\times$  weight (lbs).



## Lid Stay with Soft Close - for Top Opening



## Lid Stay with Soft Close - for Upward Opening



<u>Code</u>	<u>Description</u>	<u>List/st</u>
ARN-2-M-S	Med. Duty	\$ 57.63
ARN-2-H-S	Heavy Duty	57.63

<u>Code</u>	<u>Description</u>	<u>List/st</u>
ARN-3-M-S	Med. Duty	\$ 57.63
ARN-3-H-S	Heavy Duty	57.63

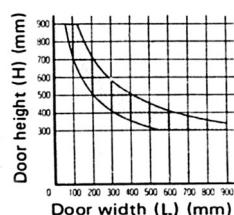
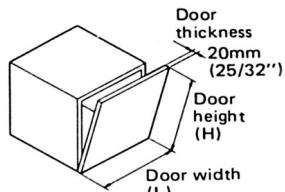


## SUGATSUNE

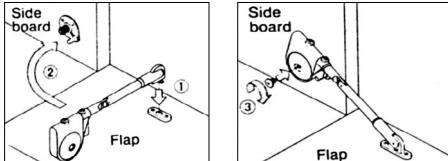


### Flap Size

The size of the flap must be taken into consideration when ordering. The graph below indicates the usable range of door sizes allowed when 1 stay is used on a usual wooden flap of 20mm (3/4") thickness. Using 2 stays, the width of flap can be doubled if the height remains unchanged.



### Installation



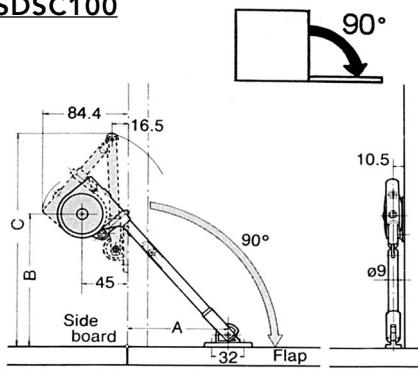
Install the mounting plate and arm fixing plate with the enclosed wood screws at the designated places.

1. Insert the 'Key' of the cam of the arm-tip into the key-hole of the arm fixing plate. The main body must be placed at 90° angle against the fixing plate.
2. Turn the main body 90° and insert the knurly axis of the mounting plate to the hole of the main body.
3. Then, fix the main body with the bind screw attached.

The SDS mechanism allows the stop to release with a smooth, soft motion. Installation is quick and easy. Compact design. Speed and angle adjustment screws included. Plastic body, nickel plated steel arm. (For Flap, Continuous or Euro Hinges.)

## SOFT DOWN STAYS

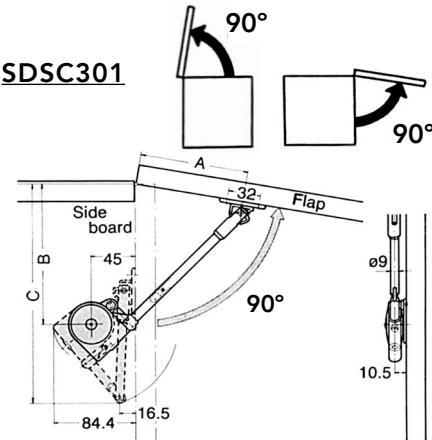
### SDSC100



For downward opening flaps like those found on bureaus. Integral catch latches flap.

Code	Color	List/ea
SDSC100W	White	\$ 23.86
SDSC100BL	Black	23.86

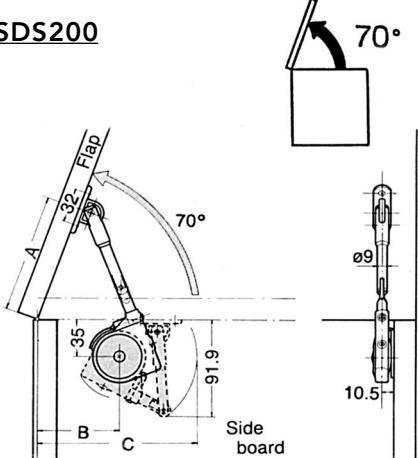
### SDSC301



For upward opening flaps like those found on upper kitchen cabinets and for top opening such as toy chests. Integral catch.

Code	Color	List/ea
SDSC301NWH	White	\$ 23.35
SDSC301NBL	Black	23.35

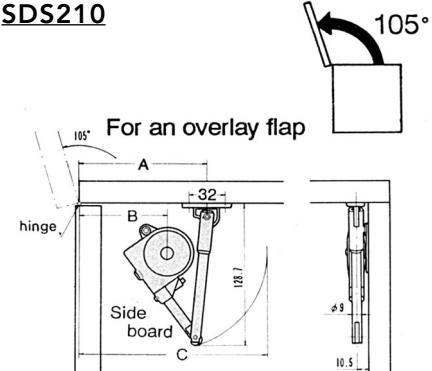
### SDS200



For top opening flaps. Plastic parts are white. Use with piano or Euro hinge.

Code	Hinge	List/ea
SDS200W	Piano	\$ 23.86

### SDS210



For top opening flaps that open to a 105° angle like on a vanity. Plastic is white. Use with flap or piano hinge.

Code	List/ea
SDS210W	\$ 23.25

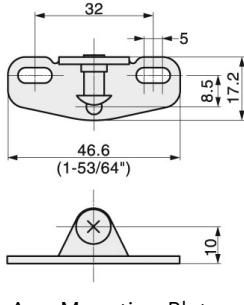


**SUGATSUNE****ADJUSTABLE SOFT-DOWN STAY**

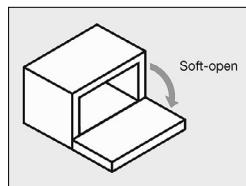
NSDX Series

**NSDX-10**

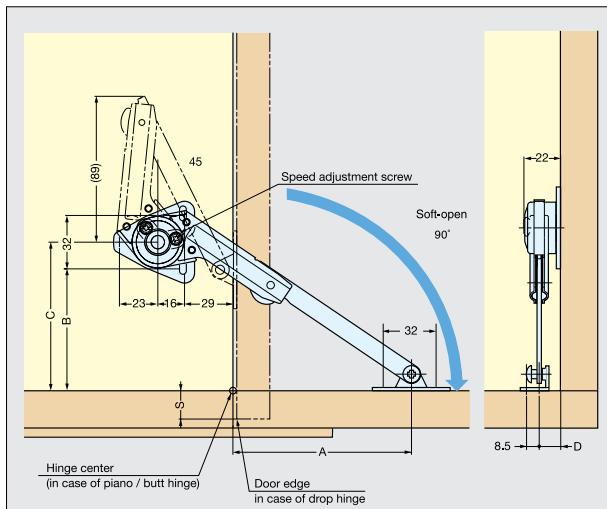
- For DOWNWARD OPENING FLAP DOOR with piano, butt or drop hinges
- Designed to hold door in closed position
- Speed adjustment screw located on front for easy adjustment
- Torque Calculation:  
Torque = Door Height x 1/2 x Door Weight  
Per Piece: 19 - 60 lbs/in.  
Per Pair: 38 - 120 lbs/in.



90° Opening



Arm Mounting Plate



"S" dimension is the overlay coverage for drop hinge(s).

Hinge Type	A	B	C	D
Drop Hinge (SDH-001)	81+S	91	107	11
Piano / Butt Hinge	90	99	115	11

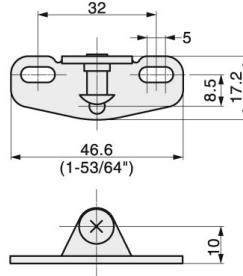
Code	Hand	Finish	Ctn	List/ea
NSDX-10RK	Right	Nickel	20	\$ 24.26
NSDX-10LK	Left	Nickel	20	24.26

**SOFT DOWN STAYS****ADJUSTABLE SOFT-DOWN STAY**

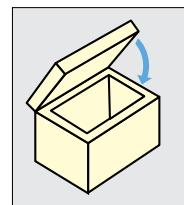
NSDX Series

**NSDX-20**

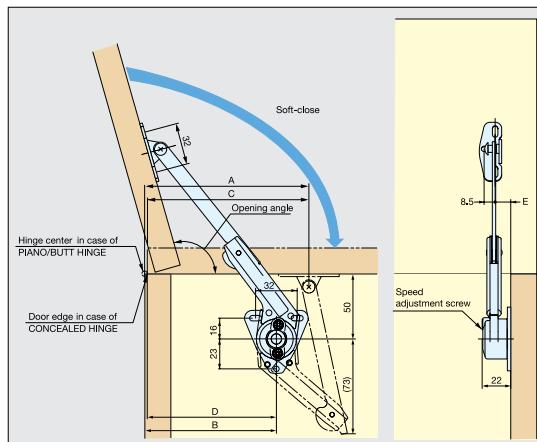
- For TOP OPENING FLAP DOOR with piano, butt or drop hinges
- Opening angle 70° or 105°
- Designed to hold door in fully opened position
- Speed adjustment screw located on front for easy adjustment
- Torque Calculation:  
Torque = Door Height x 1/2 x Door Weight  
Per Piece: 19 - 60 lbs/in.  
Per Pair: 38 - 120 lbs/in.



70° or 105° Opening



Arm Mounting Plate



Opening Angle	Hinge Type	A	B	C	D	E
70°	Concealed Hinge	-	-	126	101	11
	Piano/Butt Hinge	125	100	-	-	
105°	Concealed Hinge	-	-	103	78	11
	Piano/Butt Hinge	97	72	-	-	

Code	Hand	Finish	Ctn	List/ea
NSDX-20RK	Right	Nickel	20	\$ 24.26
NSDX-20LK	Left	Nickel	20	24.26

## SOFT DOWN STAYS

ADJUSTABLE SOFT-DOWN STAY

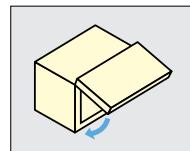
NSDX Series

NSDX-35

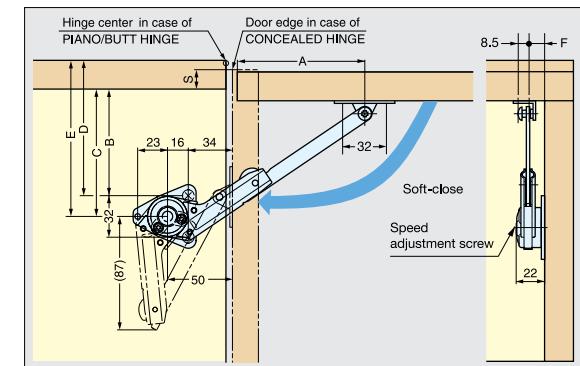


- For UPWARD OPENING FLAP DOOR with piano, butt or drop hinges
- Opening angle 80, 90 or 100°
- Designed to hold door in fully opened position
- Speed adjustment screw located on front for easy adjustment
- Two stop version (holds door at 65 and 90°) also available
- Torque Calculation:  
Torque = Door Height x 1/2 x Door Weight  
Per Piece: 19 - 60 lbs/in.  
Per Pair: 38 - 120 lbs/in.

80°, 90°, 100° Opening



Arm Mounting Plate



Opening Angle	Hinge Type	A	B	C	D	E	F
80°	Concealed Hinge	106	105-S	121-S	-	-	11
	Piano/Butt Hinge	100	-	-	99	115	
90°	Concealed Hinge	98	97-S	113-S	-	-	11
	Piano/Butt Hinge	91.5	-	-	90.5	106.5	
100°	Concealed Hinge	92.5	91.5-S	107.5-S	-	-	11
	Piano/Butt Hinge	85	-	-	84	100	

Code	Hand	Finish	Ctn	List/ea
NSDX-35RK	Right	Nickel	20	\$ 24.26
NSDX-35LK	Left	Nickel	20	24.26

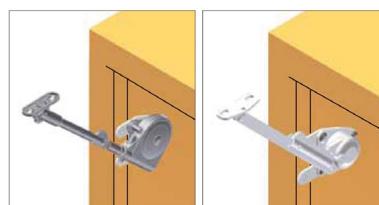
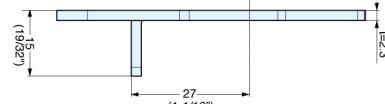
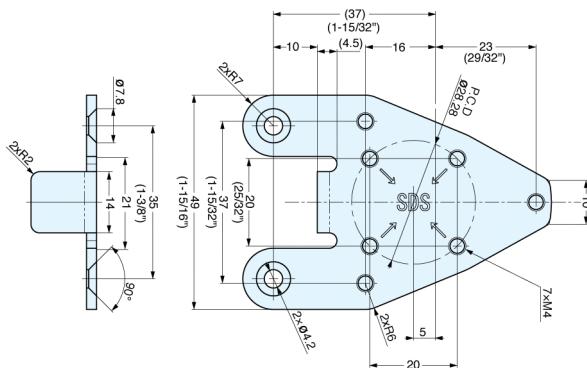
## SUGATSUNE

FACE FRAME BRACKET  
FOR SDS AND NSDX SERIES STAYS

FFCB-SD



- Works with SDS Series and NSDX Series on face frame cabinets
- Sold per piece
- Steel material, Chromate finish



SDS Series

NSDX Series

Code	Description	List/ea
FFCB-SD	Face Frame Bracket for SDS and NSDX Series Stays	\$ 7.40

**SUGATSUNE****LIFT UP STAYS****EASY LIFT UP STAY - SOFT CLOSE**

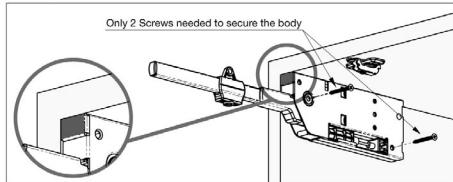
SLS-ELAN



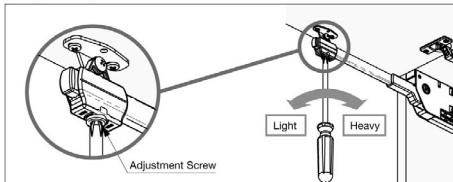
- Lapcon stay for upward-opening flap doors
- Lift-assist mechanism for extra light opening
- Door stays in any desired position
- Damper equipped for soft & silent closing at the end
- Slim design and installed location maximizes space inside of cabinet
- Simple installation by aligning body to edge of cabinet
- Single or pair use allows wide range of door size / weight
- Recognized by LGA for 40,000 cycles
- Optional bracket for aluminum frame door available



View this video and others here:  
<https://macpac1.com/videos.html#sugatsune>

**■ Easy Installation****See Chart:**

Med. Duty up to 21 lbs/pr.  
 Heavy Duty up to 29 lbs/pr.

**■ Adjustment**

FFCB-SLS

Bracket for face frame application. One bracket is needed for each stay.

**Code**

SLS-ELAN-MR

**Description**

Med. Duty / RH Lift Up Stay

**List/ea**

\$ 73.30

SLS-ELAN-ML

Med. Duty / LH Lift Up Stay

73.30

SLS-ELAN-HR

Heavy Duty / RH

73.30

SLS-ELAN-HL

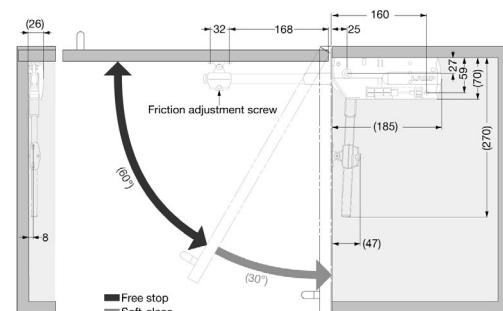
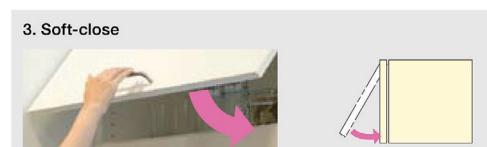
Heavy Duty / LH

73.30

FFCB-SLS

Face Frame Bracket  
for above Stays

10.01

\*19mm overlay use shown  
(Left-hand side mounting)

Door Height (inch)	Single use				Pair use			
	M-type		H-type		M-type		H-type	
	Min	Max	Min	Max	Min	Max	Min	Max
12"	8.0	10.8	10.8	14.5	16.0	21.7	21.7	29.0
13"	7.4	10.0	10.0	13.4	14.8	20.0	20.0	26.8
14"	6.9	9.3	9.3	12.4	13.7	18.6	18.6	24.9
15"	6.4	8.7	8.7	11.6	12.8	17.3	17.3	23.2
16"	6.0	8.1	8.1	10.9	12.0	16.3	16.3	21.8
17"	5.6	7.6	7.6	10.2	11.3	15.3	15.3	20.5
18"	5.3	7.2	7.2	9.7	10.7	14.4	14.4	19.3
19"	5.1	6.8	6.8	9.2	10.1	13.7	13.7	18.3
20"	4.8	6.5	6.5	8.7	9.6	13.0	13.0	17.4
21"	4.6	6.2	6.2	8.3	9.1	12.4	12.4	16.6
22"	4.4	5.9	5.9	7.9	8.7	11.8	11.8	15.8
23"	4.2	5.7	5.7	7.6	8.3	11.3	11.3	15.1
24"	4.0	5.4	5.4	7.3	8.0	10.8	10.8	14.5
25"	3.8	5.2	5.2	7.0	7.7	10.4	10.4	13.9
26"	3.7	5.0	5.0	6.7	7.4	10.0	10.0	13.4
27"	3.6	4.8	4.8	6.4	7.1	9.6	9.6	12.9
28"	3.4	4.6	4.6	6.2	6.9	9.3	9.3	12.4

\*Single or pair use depending on door size and weight.

**LIFT UP STAYS****SWING LIFT-UP STAY**

SLU-ELAN

- Swing Lift-Up for Doors
- Soft & silent closing
- Lift-assist for extra light opening
- No hinges are required
- Door stays in any desired position



- Simple installation by mounting guide plate and slide in main body
- Connecting bar stays on top for maximum access inside the cabinet - sold separately
- Recommended Door Size and Weight:
  - Width: Max 59"
  - Height: 15-3/8" - 19-11/16" / door
  - Weight: 11 - 24.2 lbs.

8

**Connecting Bars** - sold separately - 2 sizes

	<u>Cab Width</u>	<u>Inside Dimensions</u>
ELB-780	900 (35-1/2")	856 - 866 (33-3/4 - 34-1/8")
ELB-1380	1500 (59")	1456 - 1466 (57-5/16 - 57-3/4")

**Face Frame Bracket** - Sold separately. Sold per pair.  
Works with SLU-ELAN on face frame cabinetry.

Stays packed 5 sets/Ctn, Bars packed 5 ea/Ctn,  
Brackets packed 4pr/Ctn.

<u>Code</u>	<u>Door Weight</u>	<u>List/set</u>
SLU-ELAN-S4	11 - 14.3 lbs.	\$ 376.70
SLU-ELAN-L4	14.3 - 17.6 lbs.	376.70
SLU-ELAN-M4	17.6 - 20.9 lbs.	376.70
SLU-ELAN-H4	20.9 - 24.2 lbs.	376.70
ELB-780	Connecting Bar, 780mm	23.86/ea
ELB-1080	Connecting Bar, 1080mm	40.00
ELB-1380	Connecting Bar, 1380mm	49.47
FFCB-SLU	Face Frame Bracket	32.35/pr



View this video and others here:  
<https://macpac1.com/videos.html#sugatsune>

**SUGATSUNE****VERTICAL SWING LIFT-UP MECHANISM**

SLUN

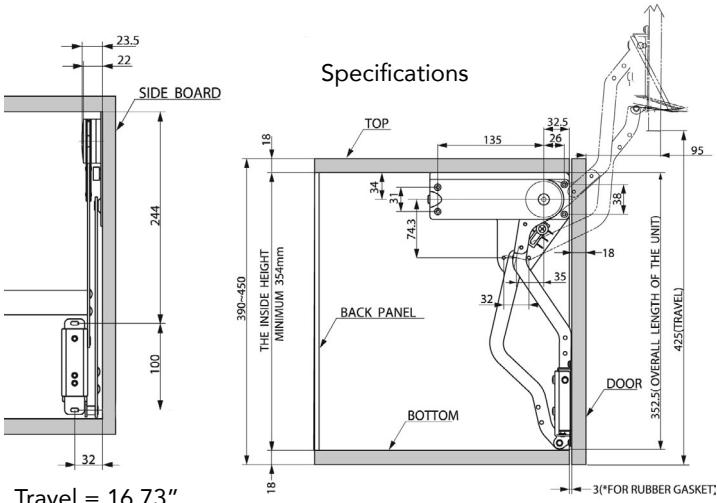


**SLUN-5N**  
Up to 12.8 lbs.



**SLUN-4N**

- Unique mechanism will help lift doors and hold at the open position
- Sleek, compact design. Smooth, quiet motion.
- Material: Steel/Plastic, Color: Nickel/Gray
- Easy Installation
- Adjustable mounting plate
- Passed 30,000 open/close cycle tests
- Recommended Door Size:
  - Width: 23-5/8" - 35-7/16",
  - Height: 15-23/64" - 17-23/32" / door
  - Weight: 6.2 - 12.8 lbs.



Guide Bar Included: 835mm (32-7/8")

Pack 5 Sets/Ctn.

<u>Code</u>	<u>Door Weight</u>	<u>List/set</u>
SLUN-3N	6.2 - 8.4 lbs.	\$ 171.87
SLUN-4N	8.4 - 10.6 lbs.	171.87
SLUN-5N	10.6 - 12.8 lbs.	171.87

**DELTA SOFT DOWN STAYS**

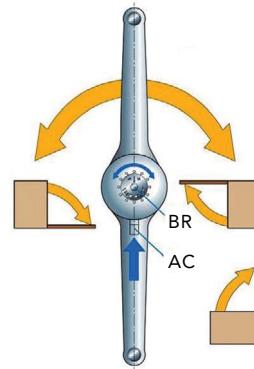
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**FITTING FOR LIDS, DROP-DOWN AND LIFT-UP DOORS**

Function Actuator (AC) changes direction of brake from up-opening to down-opening.

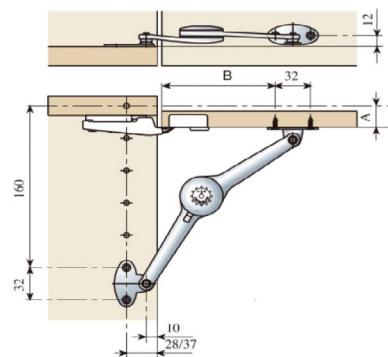
Tension control Braking tension (BR) adjusts with #4 Allen wrench.

Simply pressing the actuator (AC) permits the upper arm to be passed to one side or the other, changing the braking action from braking when closing to braking when opening. In this way the functioning for lift-up doors and lids is changed to functioning for drop-down doors.



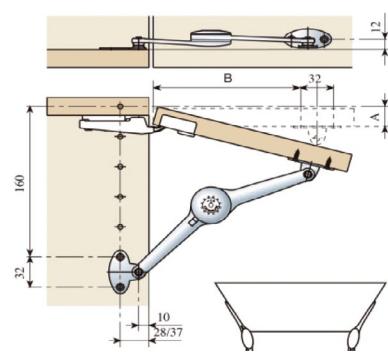
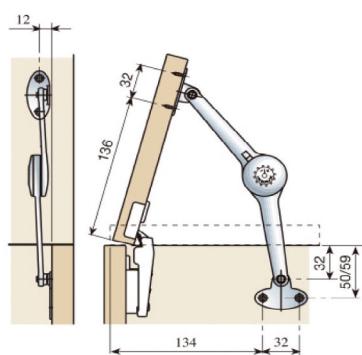
**Rated 20 lbs. each.**

A	B
8	90
9	91
10	92
11	93
12	95
13	96
14	97
15	98
16	99
17	100
18	101
19	102
20	103
21	103
22	104
23	105
24	105
25	106

**Vertical Lid Lift-Up to 90°**

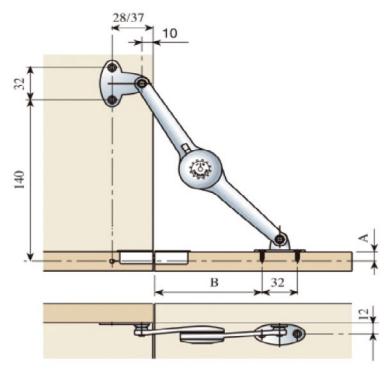
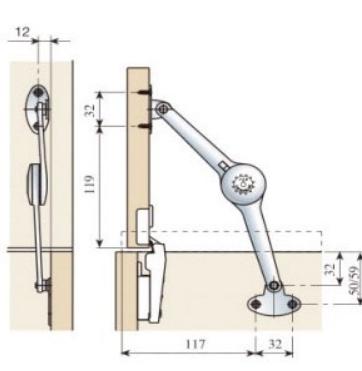
- Strong, die-cast nickel-plated zamak for lids up to 20 lbs! Lighter lids require only one fitting. Only 8" long overall.
- All holes on 32mm centers and can be placed either 27mm or 32mm from the leading edge for users of the 32mm combination drilling system.
- Reverses tension direction from LIFT-UP to DROP-DOWN function. Adjusts from sliding, braking action to hold at intermediate positions.
- Angle of opening varied from 75° to 90° by relocation of brackets and varies according to type of hinge used.

A	B
8	132
9	133
10	134
11	135
12	137
13	138
14	139
15	140
16	141
17	142
18	143
19	143
20	144
21	144
22	145
23	146
24	146
25	147

**Vertical Lid Lift-Up to 75°****Horizontal Lid Lift-Up to 75°**

- Simple Application: Brackets are fastened to the cabinet separately and then snap onto the fitting!

A	B
8	98
9	99
10	100
11	101
12	103
13	104
14	105
15	106
16	107
17	108
18	109
19	110
20	111
21	111
22	112
23	113
24	113
25	114

**Vertical Lid Drop Down to 90°****Horizontal Lid Lift-Up to 90°**

- Each Bag contains:
  - 1 Fitting,
  - 1 Bracket for Side
  - 1 Bracket for Door

**Delta Lid Stay:**

Code

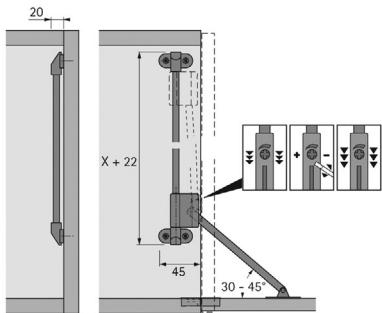
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List/bg

\$ 33.97

**FLAP STAYS****HETTICH FLAP STAY**

Klassic D



Case Interior Height: 17-1/2" - 19-5/8"

Mounting Sizes: X = 10-11/16", L = 8-3/4"

8

The Hettich Klassic D Flap Stay is a high quality and problem-free braking system with precise adjusting possibilities. Non-handed.

Housing and bearing are die-cast nickel plated. Pull bar, foot, and guide bar are steel nickel plated.

Code	Description	Ctn	List/ea
16176	Flap Stay, Non-handed	10 ea.	\$ 29.98

Inset or  
Overlay  
Mount

Overall Length: 9-7/8"

The stays have an automatic latching facility: Open by lifting the flap until the stay latches in position, close by slightly lifting the flap until the stay is released, allowing the flap to be closed. One stay is sufficient for light flaps, and two stays should be used for heavier flaps. White plastic, nickel plated metal parts. 250mm.

Code	Hand	Ctn	List/ea
373.73.729	Right	10 ea.	\$ 11.13
373.73.738	Left	10	10.36

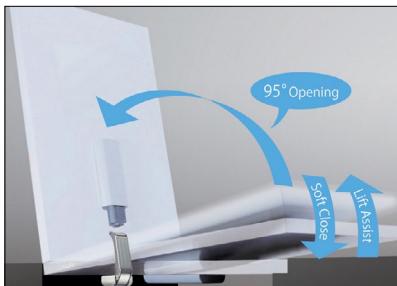
**LIFT ASSIST****LIFT ASSIST DAMPER W/ ANGLE STOPPER**

Sugatsune



- Ideal for flip up countertop and bar counter applications
- Angle stopper designed to hold open at 95°

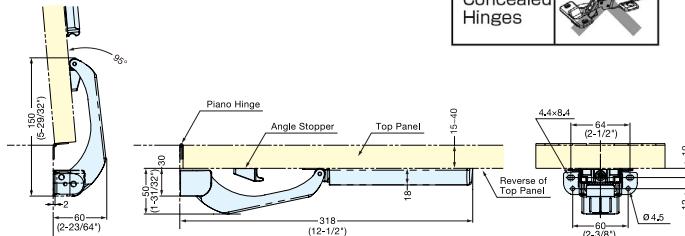
- Damper equipped for smooth soft closing at the end - prevents countertop from slamming shut
- For panel thicknesses: 9/16 to 1-9/16" (15 - 40mm)
- Simple surface mount installation
- Chrome/Nickel finish

**To Calculate Torque:**

Door Weight x Door Height divided by 2.

Hinges (Sold Separately)	
Usable	
Single Axis Hinges	
Recessed Hinges	

Unusable	
Furniture Concealed Hinges	



Code	Max. Torque per piece
LAD-ST-L	70.1 - 93.1 lbs/in.
LAD-ST-M	93.1 - 119.7 lbs/in.
LAD-ST-H	119.7 - 141.9 lbs/in.

Code	Description	List/ea
LAD-ST-L	Low Torque damper	\$ 106.16
LAD-ST-M	Med Torque damper	116.27
LAD-ST-H	Heavy Torque damper	121.32
LAD-DP1	Spacer, Gray, Door thickness: 1" - 1-3/8"	16.68
LAD-DP2	Spacer, Gray, Door thickness: 1-3/16" - 1-9/16"	17.79
LAD-BKT	Undermount Bracket	14.15

**SUPPORTS****KV SUPPORT HINGE**

Left or Right Handed. Fits 6" or 10" openings.  
Anochrome finish. Box of 12 pair with screws.

<u>Code</u>	<u>Opening</u>	<u>Ctn</u>	<u>List/pr</u>
472-6	6"	12 pr.	\$ 14.57
472-10	10"	12	13.50

**FOLDING SHELF BRACKET**

Parker



1794

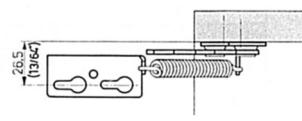
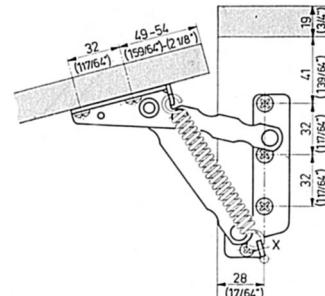
This folding steel shelf bracket is ideal for folding tables, work surfaces, book shelves or anywhere a foldaway shelf is required. 110 lb. load rating per pair.

Locks automatically in open position. Gray baked enamel finish.

<u>Code</u>	<u>Size</u>	<u>Ctn</u>	<u>List/pr</u>
1794-8	8" x 8"	12 pr.	\$ 20.16
1794-12	12" x 12"	6	27.55
1794-16	16" x 16"	6	37.87

**HETTICH LID SUPPORT**

Flap Support Lift Junior



**Assembly example**

Spring tension 140N  
requires an additional  
fixing screw at position  
X panhead ø 3.5mm

The Hettich Flap Support Lift Junior is an economical solution for small flaps. It has a neat and compact design and a safe and durable action. Choice of two spring tensions. Spring tension 20 lbs. (approx. 90N) and 30 lbs. (approx. 140N). Nickel plated.

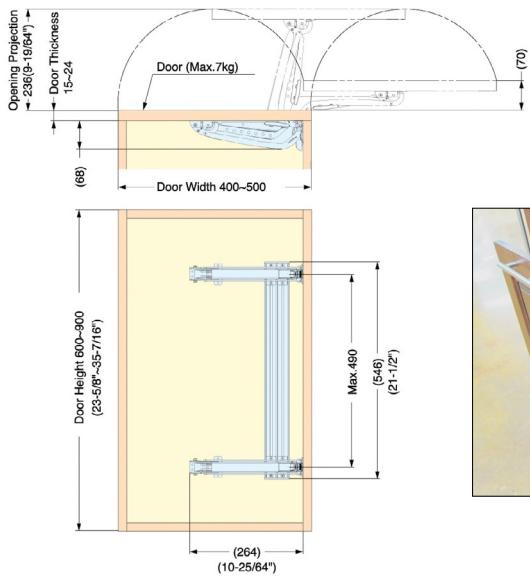
<u>Code</u>	<u>Spring</u>	<u>Hand</u>	<u>Ctn</u>	<u>List/ea</u>
1001145	20 lb.	Right	10 ea.	\$ 7.79
1001144	20 lb.	Left	10	7.79
1001143	30 lb.	Right	50	9.37
1001142	30 lb.	Left	50	8.44

**LATERAL DOOR HINGE****SUGATSUNE****MONOFLAT LIN-X HINGE FOR LATERAL DOOR OPENING**

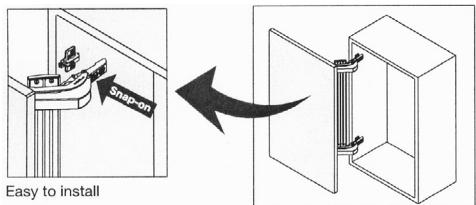
Special Order

**Features:**

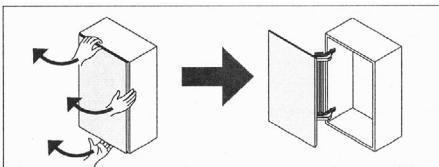
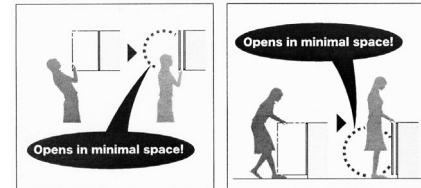
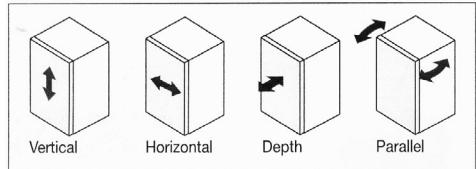
- Lateral swing mechanism allows doors to swing out laterally in a small radius, ideal for tight front space application
- Stops in any position, flush in closed position
- Self & Soft closing, Clean appearance
- Material: Steel/Aluminum, Finish: Nickel/Anodized
- Can be opened from various points
- Maximum space availability: full access to inside of cabinet while door opened
- Designed for standard 32 system mounting

CodeLIN-X450  
LIN-X450+5Overlay19mm (3/4")  
14mm (35/64")List/set\$ 208  
208**Stops in any position****Self/Soft Closing**

Door Height	23-5/8" - 35-7/16"
Door Width	15-3/4" - 19-11/16"
Door Thickness	19/32" - 61/64"
Door Weight	15.4 lbs / door

**Snap-on Installation**

Easy to install

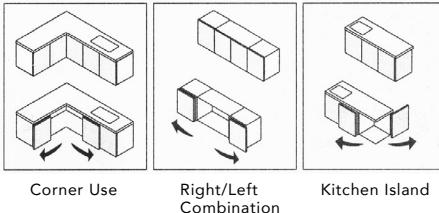
**Can be opened from various points**Please note handle position before installation.  
Handle may interfere with hinge.**Lateral Swing Mechanism****4-Way Adjustment**

Vertical

Horizontal

Depth

Parallel

**Various Applications**

Corner Use

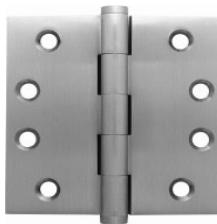
Right/Left Combination

Kitchen Island

**Components**



## CONTRACT BUTT HINGES

**HAGER BUTT HINGES - STANDARD WEIGHT**

Commercial, Template, Steel Butt hinges with Square Corners and Button Tips.

1279	Plain-bearing
BB1279	Ball-bearing

Standard weight commercial butt hinges for use on wood or metal doors. Packed with wood screws. Available in plain-bearing and ball-bearing.

**PLAIN BEARING, STANDARD WT, TEMPLATE**

For use on medium weight doors requiring low frequency service (Not for use with door closer). Steel with steel pins.

**Size: 3-1/2" x 3-1/2", 100 ea/bx.**

Code	Finish	List/ea
1279-3-3.5	Polished Brass	\$ 14.44
1279-4-3.5	Dull Brass	8.53
1279-10B-3.5	Oil R Bronze	12.99
1279-15-3.5	Satin Nickel	12.57
1279-5-3.5	Antique Brass	11.32
1279-26-3.5	Polished Chrome	12.64
1279-26D-3.5	Dull Chrome	11.11
1279-P-3.5	Prime Coat	7.25

**Size: 4" x 4", 48 ea/bx.**

1279-3-4	Polished Brass	\$ 16.25
1279-4-4	Dull Brass	11.32
1279-10B-4	Oil R Bronze	14.19
1279-15-4	Satin Nickel	14.26
1279-15A-4	Antique Nickel	19.50
1279-5-4	Antique Brass	16.25
1279-26-4	Polished Chrome	14.19
1279-26D-4	Dull Chrome	12.90
1279-P-4	Prime Coat	8.91

**Size: 4-1/2" x 4-1/2", 48 ea/bx.**

1279-3-4.5	Polished Brass	\$ 14.27
1279-10B-4.5	Oil R Bronze	14.30
1279-26D-4.5	Dull Chrome	10.19
1279-P-4.5	Prime Coat	9.36

**SOLID BRASS PLAIN BEARING BUTT HINGES**

Square Corner. Stainless Steel pin. ORB finish.  
Other sizes and finishes are available special order.

Code	Size	Ctn	List/ea
1191-10B-4	4" x 4"	48 ea.	\$ 51.56

**BALL BEARING, STANDARD WT, TEMPLATE**

For use on medium weight doors or doors requiring medium frequency service.

**Size: 3-1/2" x 3-1/2", 100 ea/bx.**

Code	Finish	List/ea
BB1279-10B-3.5	Oil R Bronze	\$ 42.56

**Size: 4" x 4", 48 ea/bx.**

BB1279-3-4	Polished Brass	\$ 29.10
BB1279-10B-4	Oil R Bronze	28.86
BB1279-15-4	Satin Nickel	26.04
BB1279-26-4	Polished Chrome	24.06
BB1279-26D-4	Dull Chrome	25.61

**Size: 4-1/2" x 4-1/2", 48 ea/bx.**

BB1279-10B-4.5	Oil R Bronze	\$ 25.28
BB1279-26-4.5	Polished Chrome	24.20
BB1279-26D-4.5	Dull Chrome	13.53

**Size: 5" x 5", 24 ea/bx.**

BB1279-10B-5	Oil R Bronze	\$ 56.56
BB1279-26D-5	Dull Chrome	34.33

## Comparison Chart

1279	=	2714	McKinney
BB1279	=	TA2714	McKinney
1250	=	1502	McKinney
1191	=	2314	McKinney

**BUTT HINGES****EMTEK****EMTEK STEEL BUTT HINGES - All Special Order**

Square Corner

Residential Duty  
Plain BearingHeavy Duty  
Plain BearingHeavy Duty  
Ball Bearing**EMTEK STAINLESS STEEL BUTT HINGES -**

Square Corner

**All Special Order**Residential Duty  
Plain BearingHeavy Duty  
Plain BearingHeavy Duty  
Ball Bearing

Must specify finish - see chart below.

8

**Plain Steel, Residential Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
91013	3-1/2" x 3-1/2"	\$ 14
91014	4" x 4"	17

**Plain Steel, Heavy Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
92013	3-1/2" x 3-1/2"	\$ 22
92014	4" x 4"	24
92015	4-1/2" x 4-1/2"	26

**Plain Steel, Heavy Duty, Ball Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
94013	3-1/2" x 3-1/2"	\$ 34
94014	4" x 4"	36
94015	4-1/2" x 4-1/2"	39

**Stainless Steel, Residential Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
9811332DSS	3-1/2" x 3-1/2"	\$ 32
9811432DSS	4" x 4"	36

**Stainless Steel, Heavy Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
9821332DSS	3-1/2" x 3-1/2"	\$ 34
9821432DSS	4" x 4"	42
9821532DSS	4-1/2" x 4-1/2"	53

**Stainless Steel, Heavy Duty, Ball Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
9841332DSS	3-1/2" x 3-1/2"	\$ 36
9841432DSS	4" x 4"	47
9841532DSS	4-1/2" x 4-1/2"	58

1/4" &amp; 5/8" Radius Corner also available - call for pricing.

Available finishes: Polished Brass (US3), Satin Brass (US4), French Antique (US7), Oil R Bronze (US10B), Polished Nickel (US14), Satin Nickel (US15), Pewter (US15A), Flat Black (US19), Polished Chrome (US26), Med Bronze (MB), Tumbled White Bronze (TWB)

1/4" &amp; 5/8" Radius Corner also available - call for pricing.

**BUTT HINGES****PLAIN BEARING HINGES**

Commercial Grade

- Square Corner
- Plain Bearing
- Packed with phillips flat-head screws

3.5 x 3.5" size: 0.123" ga.

4 x 4" size: 0.130" ga.

4.5 x 4.5" size: 0.134" ga.



<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/ea</u>
H35-00RBL	3.5" x 3.5"	Matte Black	\$ 12.67
H35-00ROB	3.5" x 3.5"	Oil R Bronze	14.55
H35-00RSN	3.5" x 3.5"	Satin Nickel	12.67
H44-00RBL	4" x 4"	Matte Black	14.89
H44-00ROB	4" x 4"	Oil R Bronze	10.62
H44-00RSC	4" x 4"	Satin Chrome	9.81
H44-00RSN	4" x 4"	Satin Nickel	9.81
H45-00ROB	4.5" x 4.5"	Oil R Bronze	14.19
H45-00RSC	4.5" x 4.5"	Satin Chrome	11.55
H45-00RSN	4.5" x 4.5"	Satin Nickel	12.25

**BALL BEARING HINGES**

Commercial Grade

- Square Corner
- Ball Bearing
- Packed with phillips flat-head screws

4 x 4" size: 0.130" ga.

4.5 x 4.5" size: 0.134" ga.



<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/ea</u>
H44-02ROB	4" x 4"	Oil R Bronze	\$ 12.79
H44-02RSC	4" x 4"	Satin Chrome	11.78
H44-02RSN	4" x 4"	Satin Nickel	11.08
H45-02ROB	4.5" x 4.5"	Oil R Bronze	16.88
H45-02RSC	4.5" x 4.5"	Satin Chrome	14.92
H45-02RSN	4.5" x 4.5"	Satin Nickel	13.76

**STAINLESS STEEL****RESIDENTIAL BUTT HINGE**

Stanley



CD747-4-32

Solid stainless steel butt hinge for light weight residential doors in low frequency applications. Square corner, non-rising pin, hole in bottom tip for easy removal. Five knuckle, full mortise design.

Carded, one hinge per card with stainless steel screws. Pack: 5 cards/ box.

<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/cd</u>
CD747-3.5-32	3.5" x 3.5"	St. Steel	\$ 26.94
CD747-4-32	4" x 4"	St. Steel	29.70

**HAGER RESIDENTIAL BUTT HINGES**

Square Corner, Plain Bearing Steel

**Size: 3-1/2" x 3-1/2", 100 ea/bx.**

<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/ea</u>
1741-10R-3.5	3.5" x 3.5"	Ant Bronze	\$ 5.66

**RADIUS CORNER****HAGER RESIDENTIAL BUTT HINGES**

1/4" Radius Corner, Plain Bearing Steel



RC1741-3.5"



RC1741-4"

Packed 100 each/box with wood screws.

<u>Size: 3.5"x 3.5"</u>	<u>Finish</u>	<u>List/ea</u>
RC1741-3-3.5	Pol. Brass	\$ 3.83
RC1741-4-3.5	Dull Brass	2.94
RC1741-P-3.5	Prime Coat	2.94
RC1741-15-3.5	Sat. Nickel	6.88
RC1741-26-3.5	Pol. Chrome	4.58
RC1741-26D-3.5	Dull Chrome	4.56
RC1741-10R-3.5	Ant. Bronze	5.02

<u>Size: 4"x 4"</u>	<u>Finish</u>	<u>List/ea</u>
RC1741-3-4	Pol. Brass	\$ 4.10
RC1741-4-4	Dull Brass	5.35
RC1741-P-4	Prime Coat	2.19
RC1741-15-4	Sat. Nickel	6.94
RC1741-26-4	Pol. Chrome	4.18
RC1741-26D-4	Dull Chrome	6.18
RC1741-10R-4	Ant. Bronze	5.59

**RESIDENTIAL BUTT HINGES**

1/4" Radius Corner, Plain Bearing Steel



3.5" x 3.5"



4" x 4"

Packed: 1 pair per box with screws.

<u>Code</u>	<u>Finish</u>	<u>Size</u>	<u>List/ea</u>
RH-61-US10B	Oil R Bronze	3.5" x 3.5"	\$ 4.61
RH-61-US15	Satin Nickel	3.5" x 3.5"	4.61
RH-61-US26D	Satin Chrome	3.5" x 3.5"	2.57
RH-60-US10B	Oil R Bronze	4" x 4"	3.61
RH-60-US15	Satin Nickel	4" x 4"	2.98

**BUTT HINGES****RESIDENTIAL BUTT HINGES**

5/8" Radius Corner, Plain Bearing Steel



3.5" x 3.5"



4" x 4"

Packed: 1 pair per box with screws.

<u>Code</u>	<u>Finish</u>	<u>Size</u>	<u>List/ea</u>
RH-35-US10B	Oil R Bronze	3.5" x 3.5"	\$ 4.61
RH-35-US15	Satin Nickel	3.5" x 3.5"	4.61
RH-40-US10B	Oil R Bronze	4" x 4"	3.61
RH-40-US15	Satin Nickel	4" x 4"	3.27

**SOLID BRASS****BUTT HINGES****EMTEK SOLID BRASS HINGES - All Special Order**

Square Corner

Residential Duty  
Plain BearingHeavy Duty  
Plain BearingHeavy Duty  
Ball Bearing

Must specify finish - see chart below.

**Solid Brass, Residential Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
96113	3-1/2" x 3-1/2"	\$ 47
96114	4" x 4"	56

**Solid Brass, Heavy Duty, Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
96213	3-1/2" x 3-1/2"	\$ 58
96214	4" x 4"	66
96215	4-1/2" x 4-1/2"	76

**Solid Brass, Heavy Duty, Ball Bearing**

<u>Code</u>	<u>Size</u>	<u>List/pr</u>
96413	3-1/2" x 3-1/2"	\$ 66
96414	4" x 4"	76
96415	4-1/2" x 4-1/2"	86
96416	5" x 5"	95

Available finishes: Lifetime Polished Brass (US3), Satin Brass (US4), French Antique (US7), Oil R Bronze (US10B), Polished Nickel (US14), Satin Nickel (US15), Pewter (US15A), Flat Black (US19), Polished Chrome (US26)

1/4" & 5/8" Radius Corner also available - call for pricing.

**DECORATIVE TIPS FOR EMTEK****SOLID BRASS HINGES - All Special Order**

4 Tips per set, List \$ /set



<u>Ball Tips</u>	<u>for Hinges</u>	<u>List/st</u>
97203	3-1/2" Res. Duty	\$ 22
97204	4" Res. Duty	22
97303	3-1/2" Heavy Duty	22
97304	4" Heavy Duty	22
97305	4-1/2" / 5" Heavy Duty	22

**Steeple Tips**

97213	3-1/2" Res. Duty	\$ 22
97214	4" Res. Duty	22
97313	3-1/2" Heavy Duty	22
97314	4" Heavy Duty	22
97315	4-1/2" / 5" Heavy Duty	22

8

**IDH SOLID BRASS****BUTT HINGES**

Standard Template

Standard weight,  
Plain bearing.

Full Mortise, Square corner

Butt hinge with button tips.

Ball Tips available separately.

Packed: 1 pair per box with screws.

<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/pr</u>
83030-015	3" x 3"	Satin Nickel	\$ 45.80
83030-10B	3" x 3"	Oil R. Bronze	52.57
83535-015	3.5" x 3.5"	Satin Nickel	57.85
83535-10B	3.5" x 3.5"	Oil R. Bronze	60.51
84040-015	4" x 4"	Satin Nickel	59.02
84040-10B	4" x 4"	Oil R. Bronze	68.95
84545-10B	4.5" x 4.5"	Oil R. Bronze	88.11

**IDH SOLID BRASS BALL TIPS**

Sold per each.

<u>Code</u>	<u>Description</u>	<u>Ctn</u>	<u>List/ea</u>
88100-015	Satin Nickel	4	\$ 3.59
88100-10B	Oil R Bronze	4	3.95

**BUTT HINGES****ERIC MORRIS SOLID BRASS BUTT HINGES**

Plain &amp; Ball Bearing, Standard Weight

**All Special Order**Screw-On  
Finial Tips11-BF  
Ball

For use on wood or hollow metal doors and frames. Solid extruded brass with stainless steel pin. Finials are threaded into the barrel to prevent the pin from rising. Packed with button tips. Other finial tips can be ordered separately.

Pack: 1 pr. per box with screws

**Plain Bearing**

<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/pr</u>
11-3535-605	3.5" x 3.5"	Pol. Brass	\$ 102.08
11-3535-613	3.5" x 3.5"	Oil R. Bronze	102.05
11-4040-605	4" x 4"	Pol. Brass	108.10
11-4040-613	4" x 4"	Oil R. Bronze	108.10
11-4040-619	4" x 4"	Satin Nickel	108.10
11-4040-605NL	4" x 4"	Brass, No Lacq	105.08
11-4545-613	4.5" x 4.5"	Oil R. Bronze	102.98
11-4545-619	4.5" x 4.5"	Satin Nickel	116.10

**Ball Bearing**

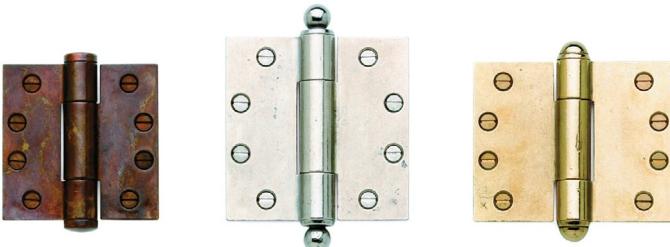
<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/pr</u>
11-4040BB-613	4" x 4"	Oil R. Bronze	\$ 135.00
11-4040BB-619	4" x 4"	Satin Nickel	135.00
11-4545BB-613	4.5" x 4.5"	Oil R. Bronze	141.00
11-4545BB-619	4.5" x 4.5"	Satin Nickel	141.00

**Finial Tips - Screw-on 4/set**

11-BF-605	Ball	Polished Brass	\$ 49.59
11-BF-613	Ball	Oil Rubbed Bronze	50.95
11-BF-619	Ball	Satin Nickel	50.95

**ROCKY MOUNTAIN HARDWARE - BUTT HINGES**

Solid Bronze. 7/8" Barrel. All Special Order.

**HNG4**

4" x 4"

Shown in Silicon  
Bronze Rust Patina  
w/ Std. Finial Tip**HNG4.5**

4.5" x 4.5"

Shown in White  
Bronze Light Patina  
w/ Ball Finial Tip**HNG4x5**

4" x 5"

Shown in Silicon  
Bronze Light Patina  
w/ Dome Finial Tip**HNG5**

5" x 5"

Shown in White  
Bronze Dark Patina  
w/ Steeple Finial Tip**HNG7x5**

7" x 5"

Shown in  
Silicon Bronze  
Dark Patina  
w/ Acorn  
Finial TipCAP 1  
StandardCAP 2  
BallCAP 3  
DomeCAP 4  
SteepleCAP 5  
Acorn

Hinges and caps are available in all 12 Rocky Mountain Metal/Patina combinations. Hinge #'s specify 7/8" barrel size. Prices shown below include hinge and any style cap. Some sizes, finishes available on RMH Express - call office for details. **Special Order Only.**

<u>Code</u>	<u>Size</u>	<u>List/ea</u>	<u>List/pr</u>
HNG3.5	3.5" x 3.5"	\$ 196	\$ 392
HNG4	4" x 4"	200	400
HNG4.5	4.5" x 4.5"	208	416
HNGWT4x5	4" x 5"	206	412
HNG5	5" x 5"	214	428
HNG7x5	7" x 5"	240	480

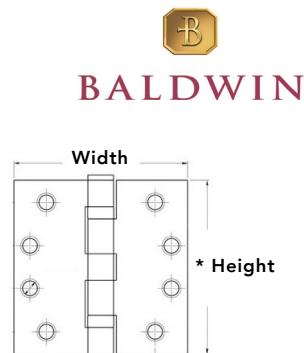


## BRASS DOOR HINGES

### BALDWIN FULL MORTISE HINGES

Solid Extruded Brass - Standard Weight

Full mortise hinges are accurately machined for precise installation and smooth movement. Knuckles are milled to a clearance of .010" (.3mm) to eliminate friction wear. Special threaded tip design allows complete interchangeability of tip finials with all full mortise hinges.



### PLAIN BEARING - Solid Brass

Solid extruded brass hinges. Stainless steel pin. Supplied with button tips. Other decorative tips available at extra cost. Template screw location for use on either wood or hollow metal doors & frames. NRP (Non-Removeable Pins) stocked in some sizes. One each per box with wood screws.

Pack: One each/box

Code	Size	Stock Finishes	List/ea
1030-XXX-I	3" x 3"	003, 102	\$ 47.04
1035-XXX-I	3.5" x 3.5"	003, 050, 056, 060, 102, 112, 151, 260	50.04
1040-XXX-I*	4" x 4"	003, 050, 056, 060, 102, 112, 151, 260, 264	54.05
1045-XXX-I	4.5" x 4.5"	056, 102, 112, 260	58.05

Other finishes available Special Order.

### BALL-BEARING - Solid Brass

Ball-Bearing, Solid Brass. Stainless steel pin. Supplied with button tips. Other decorative tips available at extra cost. Permanently lubricated, anti-friction ball-bearing assemblies. Template screw location for use on either wood or hollow metal doors & frames. Inner leaf is beveled to prevent weather elements from entering through the hinge. For standard weight doors and closers. NRP (Non-Removable Pins) stocked in some sizes. One each per box with wood screws.

Pack: One each/box

Code	Size	Stock Finishes	List/ea
1041-XXX-I*	4" x 4"	003, 050, 056, 102, 112, 260	\$ 67.06
1046-XXX-I	4.5" x 4.5"	003, 056, 102, 260	70.06
1051-XXX-I	5" x 5"	056, 102	101.09

Other finishes available Special Order.

\*Also stocked NRP

### BALDWIN HINGE TIPS - Solid Brass

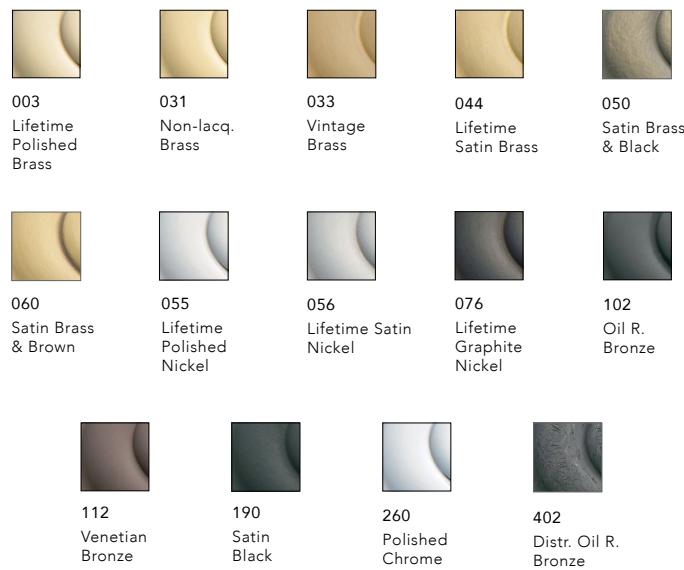
Solid Brass hinge finials can be used on all square corner Baldwin hinges. Sold per pair.

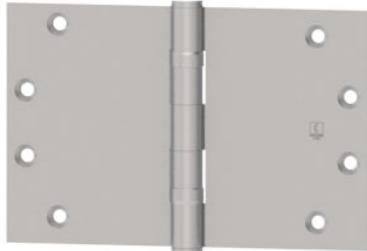


Code	Tip	Stock Finishes	List/ea
1090-XXX-I	Ball	003, 050, 102, 112	\$ 19.02
1091-XXX-I	Urn	-	19.02
1092-XXX-I	Acorn	102, 112	19.02
1093-XXX-I	Steeple	-	19.02

Other finishes available Special Order.

### Finish Codes



**WIDE THROW****HAGER WIDE THROW****FULL MORTISE BALL-BEARING HINGE**

Standard Weight  
Wide Throw  
WTBB1279

This full mortise ball-bearing steel hinge is for use on average frequency and/or medium weight wood or metal doors in schools, hospitals, and other public buildings where medium traffic is experienced and it is necessary to open the door around a large reveal. Full mortise only on jambs and doors. Stocked in USP (Prime Coat).

2 each per ctn.

Code	Finish	Size	List/ea
WTBB1279-P-3.5X5	Prime	3.5" x 5"	\$ 51.83
WTBB1279-P-4X6	Prime	4" x 6"	61.67
WTBB1279-P-4.5X6	Prime	4.5" x 6"	76.33

(Other sizes and finishes are available special order)

**HEAVY DUTY DOOR HINGES****FULL MORTISE BALL-BEARING HINGE****All Special Order**

Heavy Weight

McKinney: T4A3386  
T4A3786



Full mortise ball-bearing hinge. Extra heavy weight for use on high frequency and/or heavy wood or metal door in schools, hospitals, or other public buildings where heavy traffic prevails. 3 ea/box.

**Solid Brass or Stainless Steel - Special Order**

Code	Finish	Size	List/ea
T4A3386-26D-4.5	Dull Chrome	4.5" x 4.5"	\$ 84.77
T4A3386-10B-4.5	Oil R. Bronze	4.5" x 4.5"	96.43
T4A3386-32D-4.5	Stnls. Steel	4.5" x 4.5"	112.35
T4A3386-26D-5-4.5	Dull Chrome	5" x 4.5"	118.00
T4A3386-10B-5-4.5	Oil R. Bronze	5" x 4.5"	135.00
T4A3386-32D-5-4.5	Stnls. Steel	5" x 4.5"	127.00
T4A3386-26D-5	Dull Chrome	5" x 5"	129.00
T4A3386-10B-5	Oil R. Bronze	5" x 5"	150.00
T4A3386-32D-5	Stnls. Steel	5" x 5"	127.00

**Plain Steel - Special Order**

Code	Finish	Size	List/ea
T4A3786-26D-4.5	Dull Chrome	4.5" x 4.5"	\$ 57.00
T4A3786-10B-4.5	Oil R. Bronze	4.5" x 4.5"	67.00
T4A3786-P-4.5	Prime Coat	4.5" x 4.5"	53.00
T4A3786-26D-5-4.5	Dull Chrome	5" x 4.5"	65.00
T4A3786-10B-5-4.5	Oil R. Bronze	5" x 4.5"	77.00
T4A3786-P-5-4.5	Prime Coat	5" x 4.5"	61.00
T4A3786-26D-5	Dull Chrome	5" x 5"	65.00
T4A3786-10B-5	Oil R. Bronze	5" x 5"	86.00
T4A3786-P-5	Prime Coat	5" x 5"	61.00

**SPRING HINGES****HAGER FULL MORTISE SPRING HINGE**

Hager 1250



For automatic closing of door. Meets codes for hotels, motels, institutions and commercial buildings. Three each per box with wood and machine screws.



<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/ea</u>
1250-10B-4	4" x 4"	Oil R. Bronze	\$ 45.68
1250-15-4	4" x 4"	Satin Nickel	52.37
1250-26D-4	4" x 4"	Dull Chrome	40.34
1250-3-4	4" x 4"	Pol. Brass	52.37
1250-4-4	4" x 4"	Dull Brass	37.65
1250-5-4	4" x 4"	Ant. Bronze	37.65
1250-26-4	4" x 4"	Pol. Chrome	52.44
1250-10B-4.5	4.5" x 4.5"	Oil R. Bronze	59.73
1250-26D-4.5	4.5" x 4.5"	Dull Chrome	57.11
1250-15-4.5	4.5" x 4.5"	Satin Nickel	48.59
1250-26-4.5	4.5" x 4.5"	Pol. Chrome	52.83

<u>Size</u>	<u>Max Door Wt.</u>	<u>Spring Hinge</u>	<u>Ball-Bearing Hinge</u>
4" x 4"	60	1	2
	85	2	1
	110	3	-
4.5" x 4.5"	70	1	2
	115	2	1
	150	3	-

**COMMERCIAL GRADE SPRING HINGES**

UL Listed



- Square Corner
- UL Listed
- 4 x 4" size: 0.133" ga.
- 4.5 x 4.5" size: 0.134" ga.

<u>Code</u>	<u>Size</u>	<u>Finish</u>	<u>List/ea</u>
H44S-00OB	4" x 4"	Oil R Bronze	\$ 21.13
H44S-00SC	4" x 4"	Satin Chrome	19.29
H44S-00SN	4" x 4"	Satin Nickel	18.38
H45S-00OB	4.5" x 4.5"	Oil R Bronze	25.36
H45S-00SC	4.5" x 4.5"	Satin Chrome	24.93

8

**EMTEK SPRING HINGES - All Special Order**

Square Corner



95013  
3-1/2" x 3-1/2"



95014  
4" x 4"

**Plated Steel Spring Hinges Thickness: 0.110"**

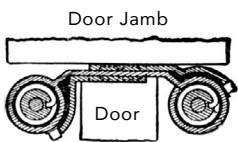
<u>Code</u>	<u>Size</u>	<u>List/pr</u>
95013	3-1/2" x 3-1/2"	\$ 36
95014	4" x 4"	39

Available finishes: Polished Brass (US3), Satin Brass (US4), French Antique (US7), Oil R Bronze (US10B), Polished Nickel (US14), Satin Nickel (US15), Pewter (US15A), Flat Black (US19), Polished Chrome (US26), Med Bronze (MB), Tumbled White Bronze (TWB)

1/4" & 5/8" Radius Corner also available - call for pricing.

**PIVOT & SPRING HINGES****MCKINNEY DOUBLE ACTION SPRING BUTT HINGE**

No Hanging strip required.  
Button Tips, Plated Steel.  
Non-template, non-handed.  
1 each per box with screws.



<u>Code</u>	<u>Finish</u>	<u>Size</u>	<u>List/ea</u>
1001-26D-3	Dull Chrome	3"	\$ 150
1001-26D-4	Dull Chrome	4"	150
1001-26D-5	Dull Chrome	5"	225
1001-26D-6	Dull Chrome	6"	250

8

**1001 HINGE SELECTION FOR MAXIMUM DOOR SIZE**

Item #	2 Hinges		3 Hinges		Door Thickness	Min Door Height
	Door Weight	Door Width	Door Weight	Door Width		
1001-3	35	2'-0"	39	2'-8"	3/4" - 1"	5'-0"
1001-4	60	2'-4"	75	3'-0"	7/8" - 1-1/4"	6'-8"
1001-5	65	2'-8"	93	3'-0"	1-1/8" - 1-1/2"	6'-8"
1001-6	75	3'-0"	107	3'-0"	1-1/4" - 1-3/4"	7'-0"

**PARKER DOUBLE ACTION SPRING HINGE**

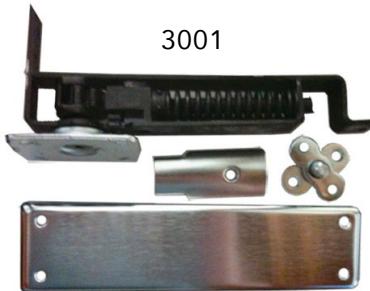
No hanging strip required.  
Adjustable spring tension.  
For door thickness of 3/4" to 1-1/4". Dull Brass Finish.

Packed 1 pair per box with screws.

<u>Code</u>	<u>Door Weight</u>	<u>Size</u>	<u>List/pr</u>
070-4-3	30 lbs.	3"	\$ 41.56
070-4-4	50 lbs.	4"	36.68

**McKINNEY HORIZONTAL SPRING PIVOT HINGE**

Medium Duty



For 1-1/8" to 1-3/4" doors. Ball-bearing double action; hold open feature, will stay open at 90°, adjustable spring tension. Plated side plate hides spring. Load Cap: 90 lb/set. One set/box with screws.

<u>Code</u>	<u>Finish</u>	<u>List/set</u>
3001-26D	Dull Chrome	\$ 300

**DELTANA DOUBLE ACTION SPRING HINGES**

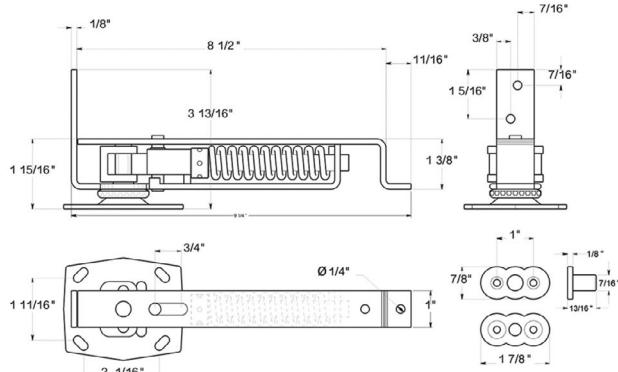
Solid Brass Cover Plates



The Double Action Spring Hinge is a floor-mounted self-closing hinge with solid brass cover plates and trim. It swings in both directions and has a hold open feature at approximately 90 degrees.

DASH95U10B

For 1-3/8" doors. Max load: 90 lbs. Non-handed. Available in Oil R Bronze and Satin Nickel finishes.



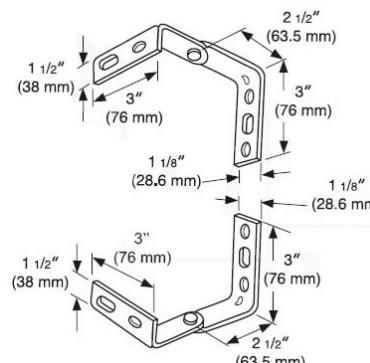
<u>Code</u>	<u>Finish</u>	<u>List/ea</u>
DASH95U10B	Oil R Bronze	\$ 168.84
DASH95U15	Satin Nickel	168.84

**PIVOT & SPRING HINGES****GRAVITY PIVOT HINGE SET**

60857

Double action gravity type, nylon bearing. For doors 3/4" to 1-3/4" thick, weighing 25-30 lbs. 1 pr/set.  
5 sets/box.

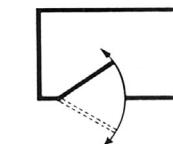
<u>Code</u>	<u>Finish</u>	<u>List/set</u>
60857	Brass Plated	\$ 17.43

**STANLEY PIVOT HINGE****Extra Heavy Duty**

For doors up to 150 lbs. 1-3/8" to 1-3/4" thick. Ideal for plastic laminated doors and wardrobe doors. Bearings take both vertical & lateral loads. Designed for mullion mounting. Doors can be installed floor to ceiling. Made of heavy .200 gauge steel. Full 180° opening. Reversible. One right hand and one left hand hinge per set. 1 set/box with screws.

<u>Code</u>	<u>Finish</u>	<u>List/set</u>
327-26D	Dull Chrome	\$ 96.15

8

**McKINNEY EP-5 DOUBLE ACTING DOOR PIVOT****SIZE OF COMPONENTS**

Bottom Door Pivot	4-3/8" x 1" x 1/4"
Header Pivot	4-1/8" x 7/8" x 1/4"
Top Door Pivot	4-1/8" x 1" x 1/4"
Bottom Jam Pivot	3" x 1-1/4" x 1/4"

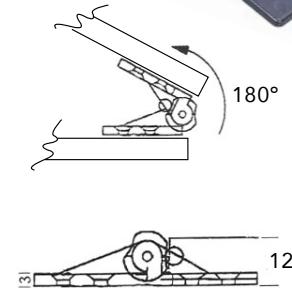
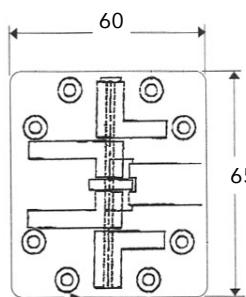
Use on average frequency double acting interior doors in schools, hospitals, etc. Do not use on doors exceeding 135 lbs. Header pivot is solid brass. Top door pivot has oil impregnated porous metal bearing & rounded corners. Bottom jamb is solid brass with 1/4" vertical adjustment. Bottom door pivot has an anti-friction bearing unit & rounded corners. Pivot pt: 1-1/4" from jamb. Full mortise only on jambs and doors. 1 set/ctn.

<u>Code</u>	<u>Finish</u>	<u>List/set</u>
EP5J-26D	Dull Chrome	\$ 190

**FOLDING DOOR HINGES****FOLDING DOOR HINGE**

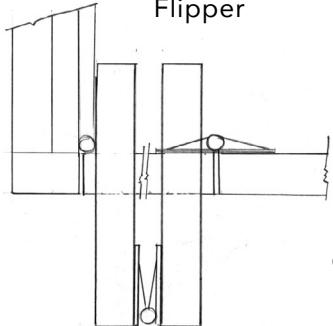
Spring loaded

21050 Hinge

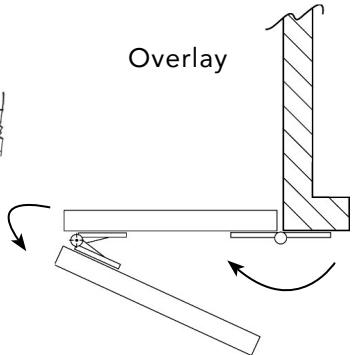


3.5x7-8 c'sink

Flipper



Overlay



Flipper Doors Closed

Doors Open  
w/ Flipper Door

Folding door hinge with adjustable tension. Spring loaded, door can lock in straight or folded position. Excellent for oversized entertainment center doors and flipper doors w/four doors. Sold per each.

Code	Finish	Ctn	List/ea
21050	Black	20 ea.	\$ 7.39

**SOSS HINGES****SOSS INVISIBLE HINGES**

Completely hidden from view when doors or lids are closed. Creates flush, smooth surfaces. Made from heavy duty rust-proof zinc alloy castings. An installing template to exact size is included w/each pair. Hinge dimensions are given for size of front plates. Dull Brass and Dull Chrome finishes available, other finishes available special order.

**For Full Size Wood/Metal Doors**

1 each/box

Code	Finish	Plate Size	Min Wd Thknss	List/ea
216-	Dull Brass	1" x 4-5/8"	1-3/8"	\$ 66.11
216US26D	Dull Chrm	1" x 4-5/8"	1-3/8"	66.11
218	Dull Brass	1-1/8" x 4-5/8"	1-3/4"	72.49
218US26D	Dull Chrm	1-1/8" x 4-5/8"	1-3/4"	69.85
220C	Dull Brass	1-3/8" x 5-1/2"	2"	115.64
220US26D	Dull Chrm	1-3/8" x 5-1/2"	2"	115.64

**SOSS HINGE ROUTER GUIDE TEMPLATES**

Installation of SOSS hinges has never been easier or faster. A perfect routed outline is foolproof, you can expect a perfect installation every time.

All List for \$ 59 ea.

Code	For Hinge	Code	For Hinge
101-IT	101	212-IT	212
103-IT	103	216-IT	216
203-IT	203	218-IT	218
204-IT	204	220-IT	220
208-IT	208		

**Needed with SOSS Hinge Templates:**

Code	Description	List/ea
42024	3/4" template guide	\$ 13.35
42237	Locknut for template guides	7.79

**Choose the right Soss hinges.**  
**See Chart next page.**

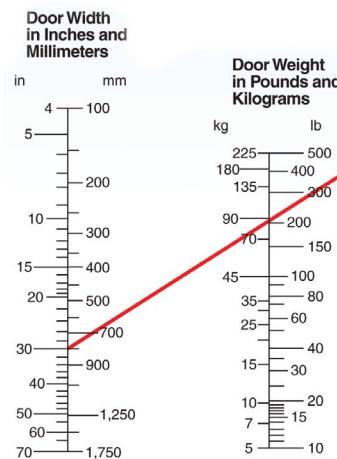


## SOSS HINGES

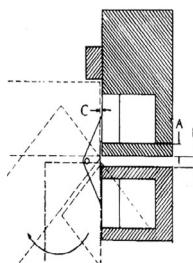
## SOSS INVISIBLE HINGES - CHOOSING THE RIGHT HINGE

Directions: After determining the weight and width of the door, locate the value on the two scales and connect with a straight line that continues to line "A". Draw a line perpendicular to the rules in the table until you reach the proper wood thickness. Use the number and size indicated on this line.

Example: A wood door 30" wide, 200 lbs, with a thickness of 1-3/4" will require four #218 SOSS Invisible Hinges. The red line shows how the sizing and selection were determined from the nomograph.



Typical Path and Clearance for Hinged Door when fully opened



HINGE NO.	A		B		C	
	INCH	MM	INCH	MM	INCH	MM
101	3/32	2.4	7/64	2.78	1/32	0.8
103	1/8	3.2	1/8	3.18	1/32	0.8
303	1/8	3.2	1/8	3.18	1/32	0.8
314	6/32	4.0	1/8	3.16	3/32	2.4
203	1/8	3.2	7/64	2.78	1/32	0.8
204	1/8	3.2	7/64	2.78	1/16	1.6
206	5/32	4.0	9/64	3.57	3/64	1.2
212	3/16	4.8	6/32	3.97	3/64	1.2
216	1/4	6.4	7/32	5.66	1/16	1.6
218	1/4	6.4	3/8	9.53	3/64	1.2
220	9/32	7.1	1/2	12.7	1/16	1.6

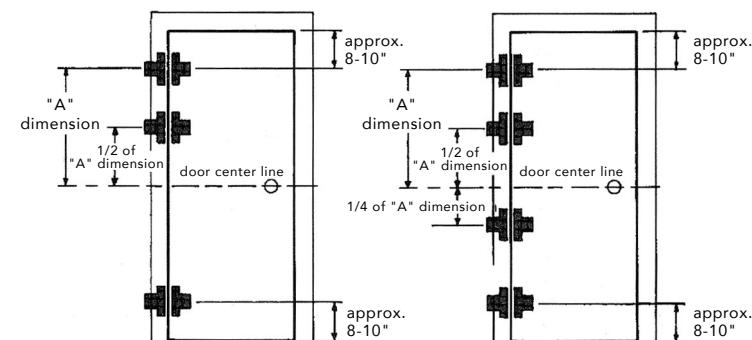
Hinge Number	METAL												WOOD & METAL															
	114	314	205	106	100	101	303	203	204	208	212	216	218	220	114	314	205	106	100	101	303	203	204	208	212	216	218	220
Door Material	1/16	5/64	1/2	11/64	3/4	19.05mm	25.40mm	28.56mm	1 1/8	34.39mm	39/64	44.45mm	50.80mm	2	1/16	5/64	1/2	11/64	3/4	19.05mm	25.40mm	28.56mm	1 1/8	34.39mm	39/64	44.45mm	50.80mm	
Hinge Number	114	314	205	106	100	101	303	203	204	208	212	216	218	220	114	314	205	106	100	101	303	203	204	208	212	216	218	220
Minimum Door Thickness	14.29mm	15.68mm	12.70mm	17.46mm	19.05mm	25.40mm	28.56mm	34.39mm	44.45mm	50.80mm	50.80mm	50.80mm	50.80mm	50.80mm	14.29mm	15.68mm	12.70mm	17.46mm	19.05mm	25.40mm	28.56mm	34.39mm	44.45mm	50.80mm	50.80mm	50.80mm	50.80mm	

Selector chart based on theoretical values.  
For extreme conditions consult factory.

## Recommended Spacing:

Notice in the illustration showing three hinges, that the "center" hinge is not shown in the usual location near the center of the door. The "center" hinge should be located one-half the distance from the horizontal center line of the door to the center line of the top hinge.

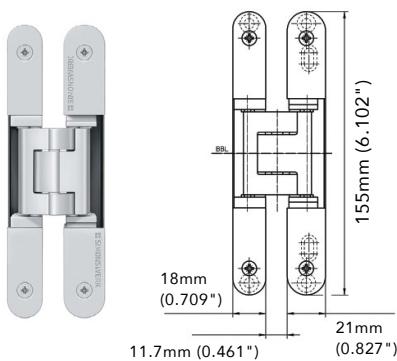
On installations requiring four SOSS hinges, the second hinge from the top should be located one half the distance from the doors horizontal center line to the center line of the top hinge. The third hinge from the top should be located one-quarter of the "A" dimension below the horizontal centerline of the door.



**ADJUSTABLE CONCEALED HINGES****SIMONSWERK TECTUS 3-WAY ADJUSTABLE HINGES**

Superior Clearance, Geometry, and Ease of Adjustment. Non-handed, up to 180° opening angle.

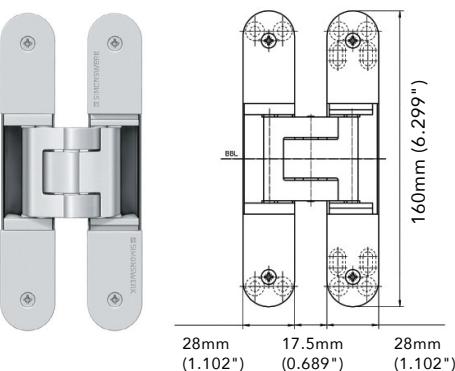
**TECTUS®**  
by **SIMONSWERK**

**TE-240-3D / 88 lbs/pr.**

For 1" Door Min.

**3D Adjustment:**

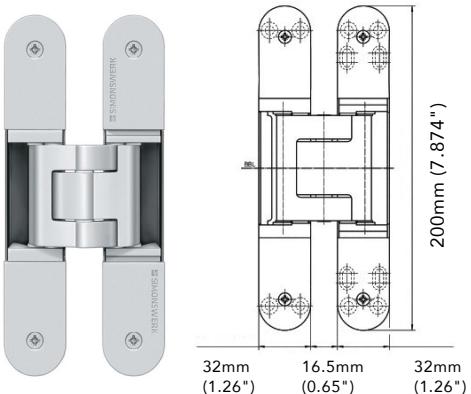
Side +/- 3.0mm (0.118"),  
Height +/- 3.0mm (0.118"),  
Compression +/- 1.5mm (0.059").

**TE-340-3D / 176 lbs/pr.**

For 1-3/8" Door Min.

**3D Adjustment:**

Side +/- 3.0mm (0.118"),  
Height +/- 3.0mm (0.118"),  
Compression +/- 1.0mm (0.039").

**TE-540-3D / 264 lbs/pr.**

For 1-3/4" Door Min.

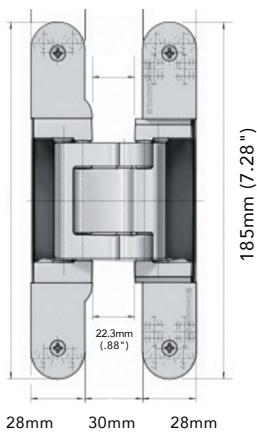
**3D Adjustment:**

Side +/- 3.0mm (0.118"),  
Height +/- 3.0mm (0.118"),  
Compression +/- 1.0mm (0.039").

**TE-541-3D-FVZ**

220 lbs/pr.

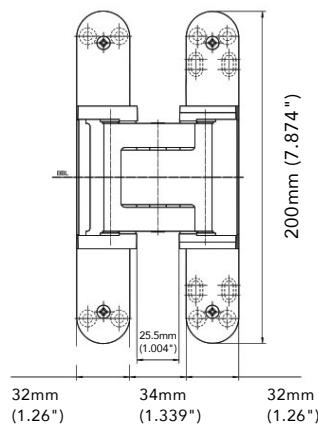
For doors with frames recessed up to .55" (14mm) from the face of the door leaf.



For 1-5/8" Door Min.

**TE-540-3D A8 / 200 lbs/pr.**

For doors with claddings of up to 8mm (.315")



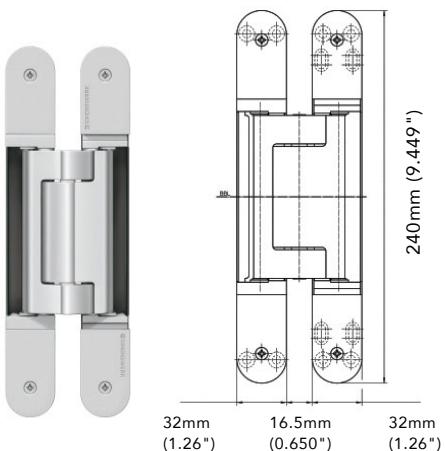
For 1-7/8" Door Min.

**3D Adjustment:**

Side +/- 3.0mm (0.118"),  
Height +/- 3.0mm (0.118"),  
Compression +/- 1.0mm (0.039").

**TE-640-3D / 440 lbs/pr.**

For high performance commercial doors



For 1-5/8" Door Min.

**3D Adjustment:**

Side +/- 3.0mm (0.118"),  
Height +/- 3.0mm (0.118"),  
Compression +/- 1.0mm (0.039").

Completely concealed for flush doors with wood, steel or alum. frames. Opening angle up to 180°, non-handed. Load Cap. refers to 2 hinges per door leaf. Maintenance free bearings. See next page for stock #s, finish choices and pricing.

**TECTUS**
**ADJUSTABLE CONCEALED HINGES**
**SIMONSWERK TECTUS 3-WAY ADJUSTABLE HINGES** *Cont.* Finish Options, Routing Templates

**TE-240-3D** - 88 lbs/ 2 hinges. Sold per Each.

<u>Code</u>	<u>Finish</u>	<u>List/ea</u>
TE-240-3D-F1	Satin Chrome Look	\$ 119.72
TE-240-3D-F2	Satin Nickel Look	116.20
TE-240-3D-SSL	Stainless Steel Look	146.85
TE-240-3D-MDB	Matte Deep Black	155.09
TE-240-3D-SN	Satin Nickel	219.73
TE-240-3D-UMBER	Rustic Umber	146.85

**TE-340-3D** - 176 lbs/ 2 hinges. Sold per Each.

TE-340-3D-F1	Satin Chrome Look	\$ 134.68
TE-340-3D-F2	Satin Nickel Look	134.64
TE-340-3D-SSL	Stainless Steel Look	165.86
TE-340-3D-PNI	Polished Nickel	244.95
TE-340-3D-SN	Satin Nickel	244.95
TE-340-3D-MDB	Matte Deep Black	165.86
TE-340-3D-UMBER	Rustic Umber	165.86

**TE-540-3D** - 264 lbs/ 2 hinges. Sold per Each.

TE-540-3D-F1	Satin Chrome Look	\$ 219.73
TE-540-3D-F2	Satin Nickel Look	219.73
TE-540-3D-SSL	Stainless Steel Look	287.27
TE-540-3D-SN	Satin Nickel	404.60
TE-540-3D-UMBER	Rustic Umber	289.10

**TE-540-3D-A8** - 200 lbs/ 2 hinges. Sold per Each.

TE-540-3D-A8-F1	Satin Chrome Look	\$ 237.71
TE-540-3D-A8-F2	Satin Nickel Look	237.71
TE-540-3D-A8-SSL	Stainless Steel Look	303.20
TE-540-3D-A8-MDB	Matte Deep Black	303.20
TE-540-3D-A8-SN	Satin Nickel	423.63
TE-540-3D-A8-UMBER	Rustic Umber	302.01

**TE-541-3D-FVZ** - 220 lbs/ 2 hinges. Sold per Each.

TE-541-3D-FVZ-F1	Satin Chrome Look	\$ 266.21
<b>TE-640-3D</b> - 440 lbs/ 2 hinges. Sold per Each.		
TE-640-3D-F1	Satin Chrome Look	\$ 292.63
TE-640-3D-F2	Satin Nickel Look	292.63
TE-640-3D-SSL	Stainless Steel Look	382.67


**ROUTING TEMPLATES**

<u>For 240 Hinge</u>	<u>Description</u>	<u>List/ea</u>
RT-DOOR-240	Routing Template, Door	\$ 108.57
RT-FRAME-240	Routing Template, Frame	97.81

**For 340 Hinge**

RT-DOOR-340	Routing Template, Door	91.29
RT-FRAME-340	Routing Template, Frame	91.29

**For 540 Hinge**

RT-540-S1	For TE-540, Step 1	91.29
RT-540-S2	For TE-540, Step 2	91.29
RT-540-A8-S3	For TE-540-A8, Step 3	91.29

**For 541 Hinge**

RT-541-S1	For TE-541, Step 1	78.25
RT-541-S2	For TE-541, Step 2	78.25
RT-541-DOOR-S3	Door Template, Step 3	78.25
RT-541-FRAME-S3	Frame Template, Step 3	78.25

**For 640 Hinge**

RT-640-S1	For TE-640, Step 1	91.29
RT-640-S2	For TE-640, Step 2	91.29

**Powder Coated Finishes**


F1 / Satin Chrome Look



F2 / Satin Nickel Look



UMBER / Rustic Umber



MDB / Matte Deep Black

**Plated Finishes**


SN / Satin Nickel



PNI / Polished Nickel

**Galvanic/Liquid Coated**


SSL / Stainless Steel Look

(Rated "warmer" in color than F1 or F2, almost "champagne")

**TECTUS****UNIVERSAL MILLING FRAME**

Jig for Routing Templates

Precise routings can be conducted for a certain hinge using the corresponding routing template.

Makes door prep fast and easy. Jig clamps to door or frame to hold templates in perfect alignment.

**Complete jig consists of:**

1 universal frame and 1 clamping device

**TECTUS®**  
by SIMONSWERK
**Fitting instructions:**

1. Secure the clamping device to the routing frame using the clamp rods.
2. Roughly adjust the clamping device according to rebate construction and fix in place with fastening screws.
3. Clamp routing frame to workpiece with clamping wheel.
4. Insert template and roughly adjust using the standard values given for rail and angle.
5. Carry out fine adjustment using spindles.

Code	Description	List/ea
TE-JIG	Universal Milling Frame	\$ 643.84

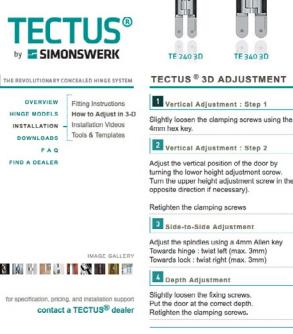
**Recommended bit & collet:**

45441: Plunge bit 3/4" x 2"  
42030: 1" collet

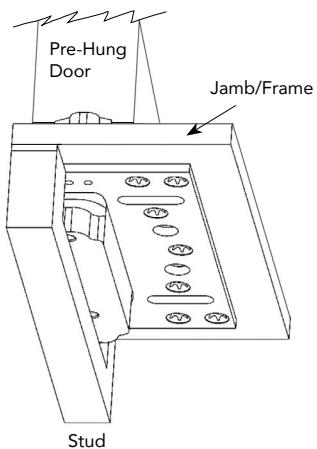


Scan here for Video  
Or, go to [macpac1.com/videos.html#simonswerk](http://macpac1.com/videos.html#simonswerk)

Visit [www.tectushinges.com/adjust\\_steps.html](http://www.tectushinges.com/adjust_steps.html)  
for an active look at  
Tectus 3D adjustments - step by step

**FIXING PLATE FOR TECTUS SERIES HINGES**

For reinforcement of wood casing frames of pre-hung doors



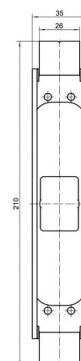
Code	Description	List/ea
TE-240-3D-FZ	Fixing Plate for casing frames for TE-240-3D	\$ 16.72
TE-340-3D-FZ	Fixing Plate for casing frames for TE-340-3D	21.09

**FRAME RECEIVER FOR METAL JAMBS**

Use with TE-340-3D hinges

- For unrebated residential and heavy-duty doors with steel frames
- Galvanized finish
- Non-handed

- Depth : 34mm (1-5/16")
- Total Height : 225mm (8-7/8")
- Width : 39.5mm (1-9/16")



Code	Description	List/ea
TE-340-3D-SZ	Frame Receiver for TE-340 hinges	\$ 39.28



## ADJUSTABLE CONCEALED HINGES

### 3-WAY ADJUSTABLE CONCEALED HINGES

For Residential, Interior doors

For 1-3/8 to 1-3/4" Door  
thicknesses on Interior Doors

- Completely concealed hinge system for wood frames
- For flush, interior residential doors
- Easily 3D adjustable (side, height, compression)
- Load cap: 132 lbs. per pair

**AN-170-3D**  
132 lbs/pr.



AN-170-3D-AL  
Alum. Chrome



AN-170-3D-BLACK  
Black



AN-170-3D-SN  
Satin Nickel



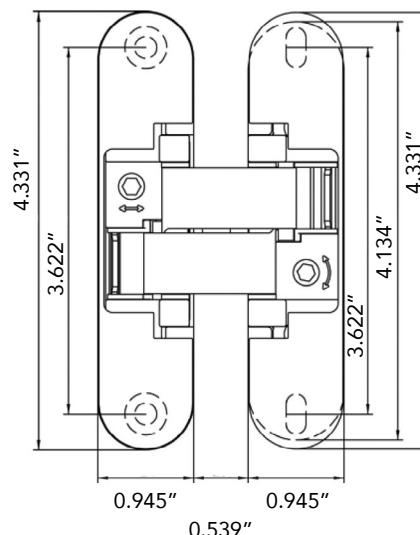
AN-170-3D-UMBER  
Rustic Umber



AN-170-3D-WHITE  
Traffic White

### TECHNICAL DATA AN-170-3D

overall length	110.0 mm	(132 lbs.)
width (frame)	24.0 mm	(4.331")
width (door)	24.0 mm	(0.945")
cutter diameter	14.0 or 16.0 mm	(0.945")
collar ring diameter	25.0 or 27.0 mm	(1/2") use #45426 router bit
opening angle	180°	(1") use #42030 router template guide



Code	Finish	List/ea
AN-170-3D-AL	Alum. Chrome	\$ 55.61
AN-170-3D-BLACK	Black	55.61
AN-170-3D-SN	Satin Nickel	55.61
AN-170-3D-UMBER	Rustic Umber	55.61
AN-170-3D-WHITE	White	55.66

**Routing Template** for AN-170-3D hinges.  
Fits Universal Milling Frame (TE-JIG).

AN-170-TP List \$ 105.20 /ea.



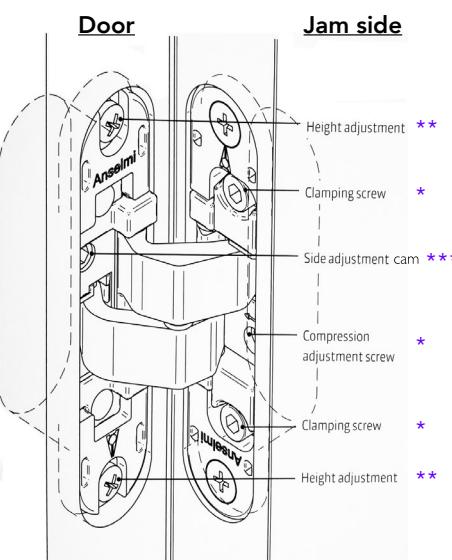
**Fixing Plate** for AN-170-3D hinges for  
residential doors with casing frames.  
Shims and screws (M5 x 20) are included.

AN-140-3D-FZ List \$ 15.17 /ea.



All adjustments can  
be performed with  
a 4mm (0.157")  
Allen wrench.

See page 1906 for  
4mm hex screwdrivers.

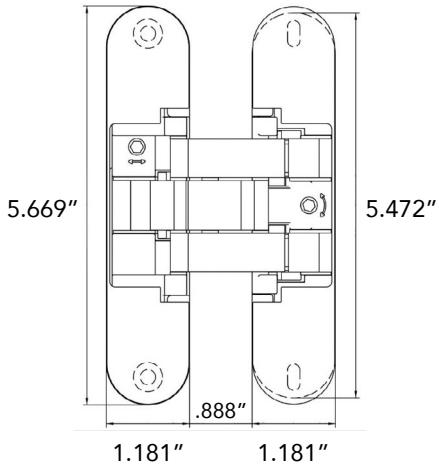


**AN-161 ADJUSTABLE CONCEALED HINGES**

For Residential Interior doors with recessed frame facings



AN-161-3D-FVZ-SN

Example of  
a recessed  
frame facing**TEMPLATES**

**Both Routing Templates** are needed for AN-161-3D hinges. Fits Universal Milling Frame.

AN-161-TP List \$ 111.21/ea

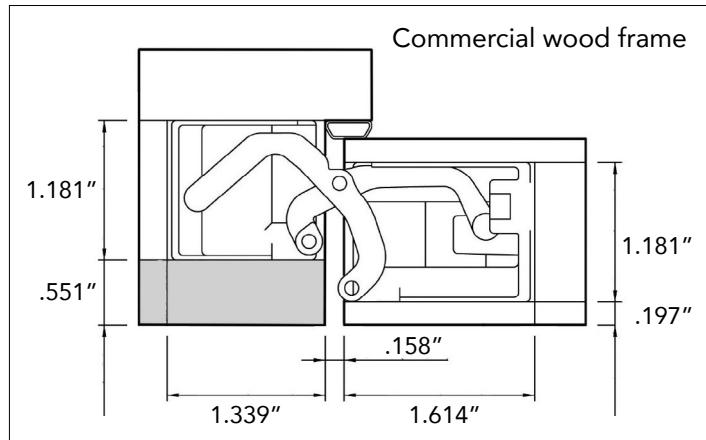
AN-170-TP List \$ 105.20/ea

**AN-161-3D-FVZ**

132 lbs/pr. For recessed frame facings

- Up to 0.551" (14mm) recessed frame facing
- Minimum door thickness: 1.575" (40mm)
- For wood and aluminum frames
- Easy 3D adjustable (side, height, compression)
- Load cap: 132 lbs. per pair
- Opening angle up to 180 degrees

<u>Code</u>	<u>Finish</u>	<u>List/ea</u>
AN-161-3D-FVZ-SN	Sat Nickel	\$ 111.63
AN-161-3D-FVZ-BLACK	Black	111.63





## ADJUSTABLE CONCEALED HINGES

### 3-WAY ADJUSTABLE CONCEALED HINGE

HES3D-120 - Load Cap: 66 lbs/ 2 hinges

For 29mm Thick Doors (1-1/8") min.



Dull Nickel



Dull Chrome



Matte Black

- 3-Way Adjustment:

Horizontal: -2 ~ +2mm  
Vertical: -2.5 ~ +2.5mm  
Depth: -1 ~ +1mm

- Max Door Weight:

66 lbs/ 2 hinges  
88 lbs/ 3 hinges

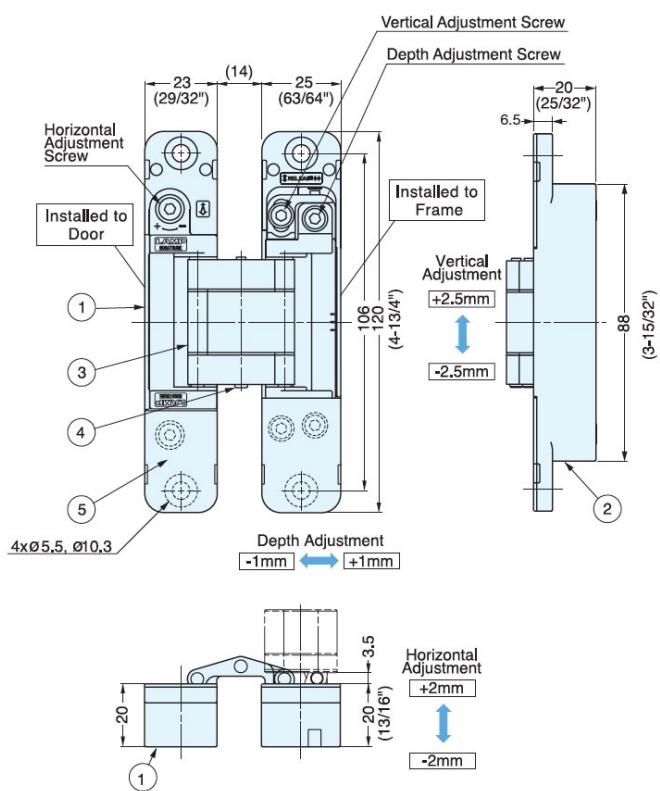
- Min Door Thickness: 29mm (1-1/8")

- Easy Installation and adjustment

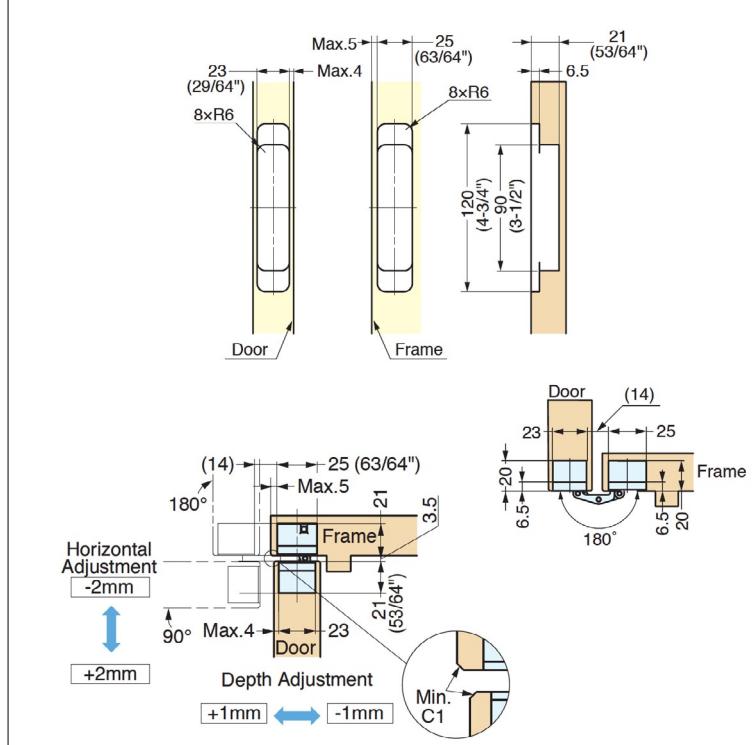
- Cover hides all screw heads for clean appearance

- Available in Dull Chrome, Dull Nickel, and Black

#### Dimensions



#### Bore Dimensions



#### Code

HES3D-120DC

HES3D-120DN

HES3D-120BL

HES3D-120-TMP

#### Finish

Dull Chrome

Dull Nickel

Matte Black

Plastic Template

#### List/ea

\$ 75.83

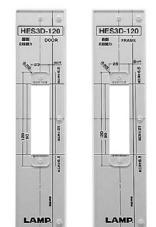
75.83

75.83

90.99

#### HES3D-120-TMP

Plastic Template for  
HES3D-120 hinges

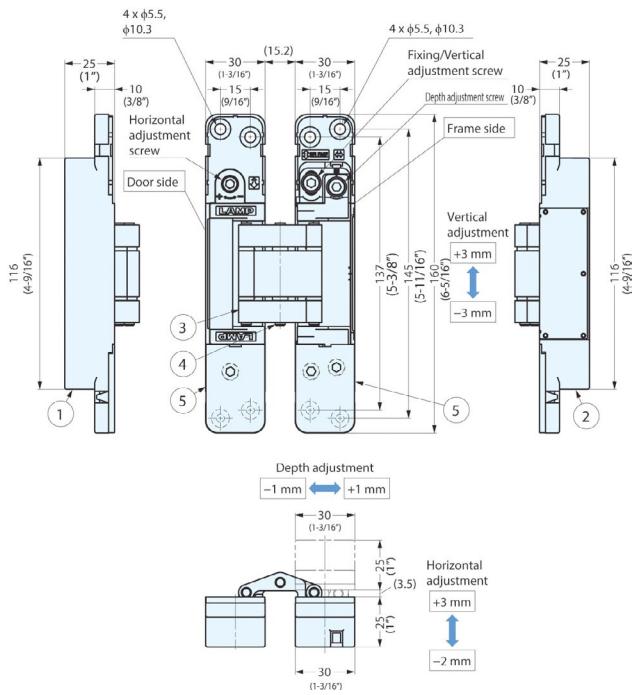


**ADJUSTABLE CONCEALED HINGES****3-WAY ADJUSTABLE CONCEALED HINGE**

HES3D-E160 - Load Cap: 99 lbs/ 2 hinges



- 3-Way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed
- Easy installation / removal
- Supplied with stainless steel flat head screw
- Cover hides all screw heads for clean appearance
- Door weight: Max. 99 lbs / 2 pcs, 132 lbs / 3 pcs.
- Door thickness: Min 1-3/8"
- Max. Door Size: 94-1/2" H x 35-7/16" W
- Recommended to use only 2 hinges per door for best adjustability



Sold per each.

Code	Finish	List/ea
HES3D-E160DC	Dull Chrome	\$ 140.53
HES3D-160-TMP	Plastic Template	75.00

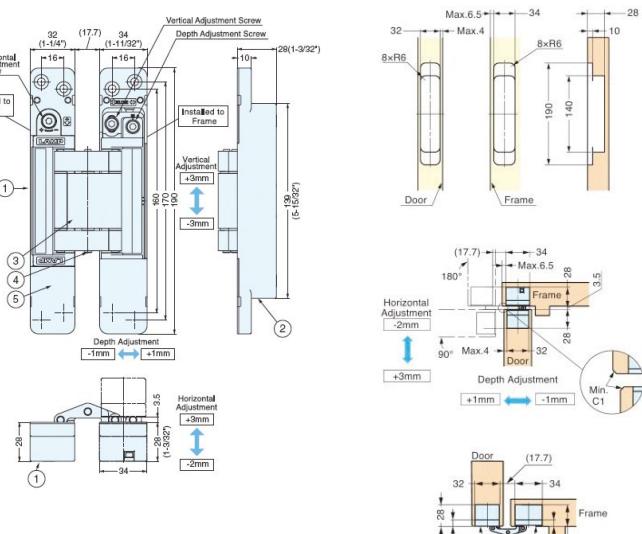
**SUGATSUNE****3-WAY ADJUSTABLE CONCEALED HINGE**

HES3D-E190 - Load Cap: 220 lbs/ 2 hinges

**HES3D-E190**  
**Economy Adjustable Hinge**

- 3-Way adjustment function allows vertical, horizontal, and depth adjustment after hinge installed
- Easy installation / removal

- Successfully passed 300,000 open/close cycle tests
- Supplied with steel flat head screw
- Cover hides all screw heads for clean appearance
- Door weight: Max 220 lbs / 2 pcs, 275 lbs / 3 pcs.
- Door thickness: Min 1-1/2"
- Max Door size: 94-1/2" H x 35-7/16" W



No.	Part Name	Material
1	Body	Zinc Alloy
2	Base Frame	Zinc Alloy
3	Arm	Aluminum
4	Pin	304 Stainless Steel
5	Cover	ABS



Sold per each.

Code	Finish	List/ea
HES3D-E190DC	Dull Chrome	\$ 140.53
HES3D-E190BL	Black	140.53
HES3D-E190DN	Dull Nickel	140.53
HES3D-E190-TMP	Plastic Template	121.32



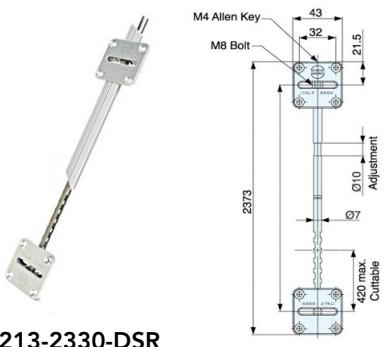
## SUGATSUNE

### SUGATSUNE DOOR STRAIGHTENERS

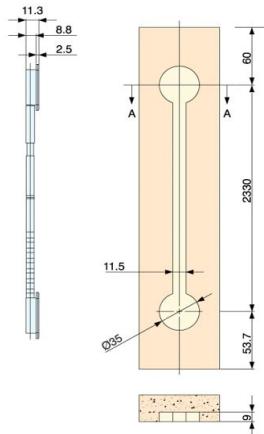
Protect your doors from future warping. Prevent doors from bending, due to warpage caused by heat and humidity. Pre-installed straighteners can also correct doors experiencing warpage. Designed to be installed at the time of door manufacture, and can be used for swinging doors, sliding doors or lateral opening doors. Nickel finish.

- +/- 10mm (3/8") adjustment can be made; adjustable at the top of door with M4 allen key
- For door ht 80-96", bar must be cut to length, up to 16-1/2"
- Requires (8) #8 flathead wood screws for installation

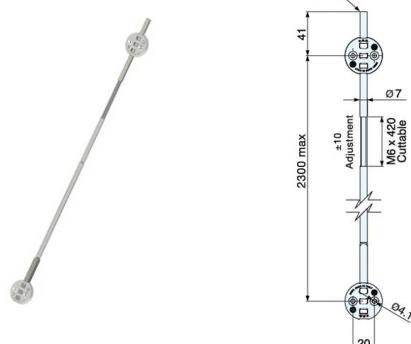
#### Recessed Door Straightener

**213-2330-DSR**

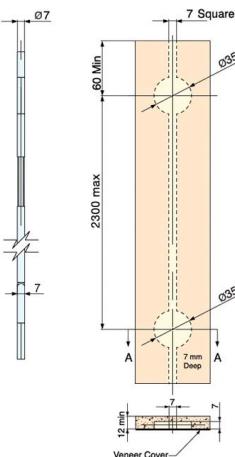
Installs into back face of door, min 5/8" door thickness.



#### Fully Concealed Door Straightener

**423-2300-DSR**

Recess mounts under door laminate, min 1/2" door thickness.

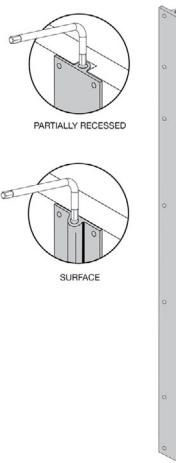
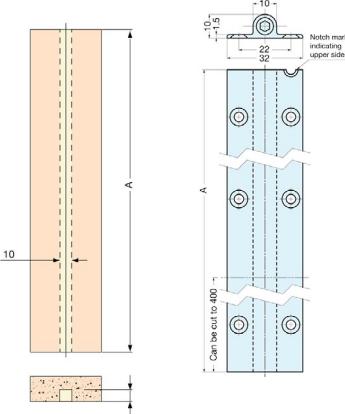


Code	Description	List/ea
213-2330-DSR	Recessed straightener	\$ 25.00
423-2300-DSR	Concealed straightener	27.09

### SUGATSUNE DOOR STRAIGHTENERS

Full-size doors can deform with time, humidity, and use. Straighten warped doors stylishly with this door straightener kit. These braces utilize a strong steel core with durable aluminum casing to impart enough corrective force to fix bowed doors without further damage. A retrofitted solution, for post-production installation to straighten warped doors that have already lost their original shape. Available in Black and Silver finishes.

- For door heights 70-7/8" (1800mm) to 86-5/8" (2200mm)
- 5/8" Min door thickness
- +/- 10mm (3/8") adjustment can be made at the top of door with M4 allen key



- Can be cut from the bottom up to 15-3/4" (400mm)



Code	Description	List/ea
701-2200-B	Door straightener for warped doors, Black	\$ 85.00
701-2200-S	Door straightener for warped doors, Silver	90.00

**GATE HARDWARE****GRAVITY GATE LATCH**

Gravity Gate Latch.  
Wrought steel with  
4-5/8" long latch bar.  
Zinc Plated.



PB72

<u>Code</u>	<u>Ctn</u>	<u>List/ea</u>
PB72	20/box	\$ 5.06

**STANLEY ORNAMENTAL  
TEE HINGE**

CD1291



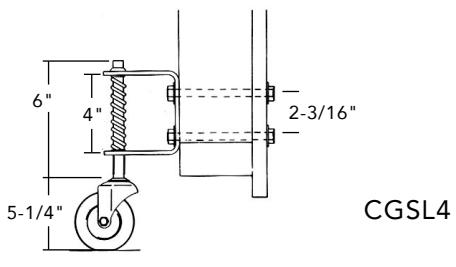
CD1291

For ornamental gates in your garden or patio areas, etc. Heavy gauge steel, dull black finish is zinc plated first. Loose pin for right or left-hand application. Length of strap: 7-5/16". One pair per card with screws.

<u>Code</u>	<u>Ctn</u>	<u>List/cd</u>
CD1291	5 Cards/box	\$ 25.21

**GATE WHEEL**

CGSL4



The Gate Wheel is ideal for uneven walkways. Helps support heavy gates. (Spring must be fully depressed to install.) Overall Ht: 11-1/4". Rubber wheel.

<u>Code</u>	<u>Load Cap</u>	<u>Wheel Dia.</u>	<u>List/ea</u>
CGSL4	240 lbs.	4"	\$ 54.35