

CONCEALED HINGE (STAINLESS STEEL) 180SUS

Latest Info



Picture above is the combination of concealed hinge and mounting plate.

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Specifications

- 3D adjustment : Depth: ± 2 mm (from centre of long hole), Vertical: ± 2 mm (from centre of long hole), Overlay: ± 2 mm (at 5 mm cut and 17 mm cover).
- Passed the in-house neutral salt spray test, meeting the 480-hour corrosion resistance standard in accordance with ISO 9227 (equivalent to DIN EN 1670).

Sold Separately

- Stainless Steel Mounting Plate **1**

Recommended screw

- Countersunk or round countersunk head wood/tapping screw 3.5

Remarks

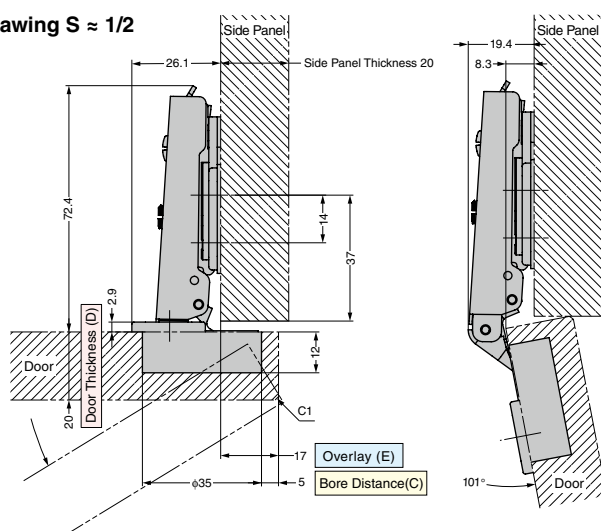
- The body of the hinge, excluding the damper, is made of stainless steel.

RoHS	CAD	Item Code	Item Name	Type	Material	Finish	Weight (g)	Carton
-		160-056-878	180SUS-D46-19T	Built-in Damper	Stainless Steel (SUS304)	Barrel	62	200
-		160-056-879	180SUS-C46-19T	w/ Catch		Polishing	58	200

Mounting Plate (sold separately) is required for installation. Please order separately.

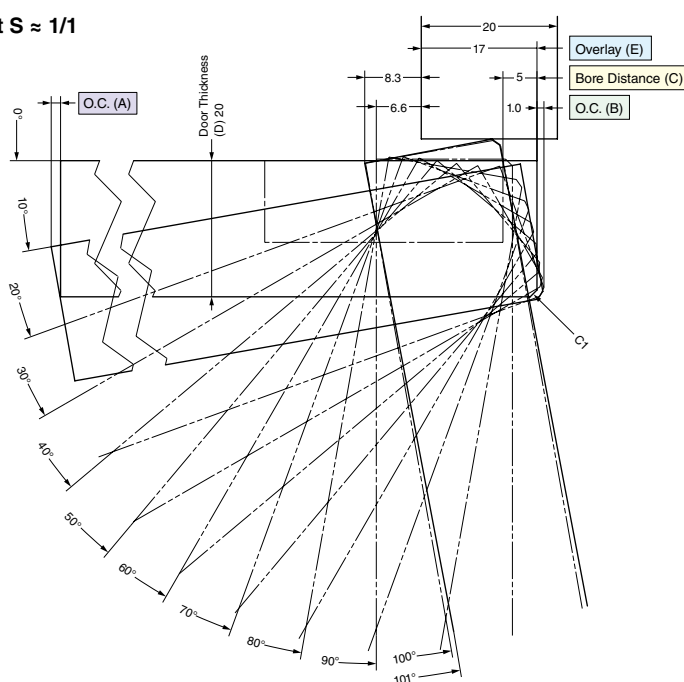
105° Opening 19 mm Overlay Door Thickness 15 - 20 mm

Installation drawing S ≈ 1/2



Drawing above shows 180SUS-D46-19T or 180SUS-C46-19T on 180SUS-P6T mounting plate: 5 mm bore distance, 20 mm door thickness, 17 mm overlay.

Locus chart $S \approx 1/1$



Drawing above shows 5 mm bore distance, 20 mm door thickness, 20 mm side panel thickness, 17 mm overlay.

Bore Distance (C)

Bore Distance (C)	3	4	5
Overlay (E)	15	16	17

For standard type mounting plate 0 mm thickness.
Turning the overlay adjustment screw to adjust
overlay. (Adjustment range: ± 2 mm)

Opening Clearance (O.C.)

Opening Clearance (O.C.)
Clearances for door edge O.C. (A) and hinge side O.C. (B) are necessary. O.C. (A) and (B) change depending on door thickness and bore distance (C). Refer to locus chart and tables below when designing cabinets.

O.C. (B)

Door Thickness (D)	Bore Distance (C)		
	3	4	5
15	0.1	0.1	0.1
16	0.2	0.2	0.2
17	0.4	0.4	0.3
18	0.6	0.5	0.5
19	0.8	0.8	0.8
20	1.1	1.1	1.0
21*	1.6	1.5	1.4
22*	2.3	2.0	1.8

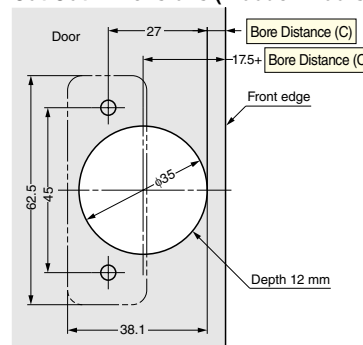
*Please refer to the locus chart if door thickness is over 20 mm. (O.C. (B) can be reduced by machining the R and C faces on the door.)

O.C. (A)

Door Thickness (D)	Door Width				
	300	400	450	500	600
	0.24	0.18	0.15	0.14	0.12
20	O.C. (A)				

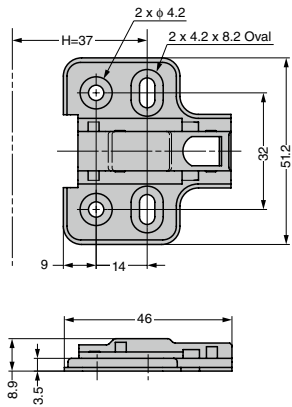
*Reference values for door widths 500 and 600.

Cut Out Dimensions (Wooden Doors)



Door Dimensions and Number of Hinges

STAINLESS STEEL MOUNTING PLATE 180SUS-P6T



• Mounting Plate for 180SUS Concealed Hinge.

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Specifications

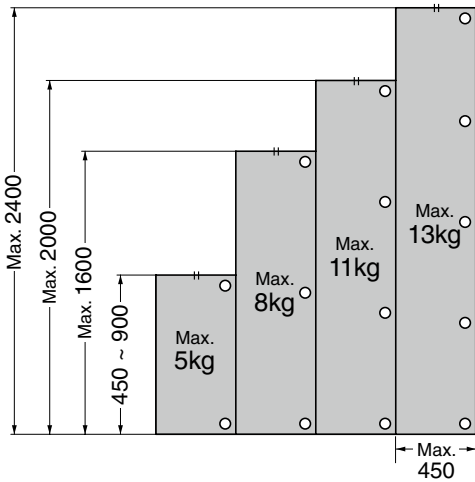
- Door Adjustment Function (± 2 mm up/down)
- Thickness: 0 mm (Standard Thickness)
- Passed the in-house neutral salt spray test, meeting the 480-hour corrosion resistance standard in accordance with ISO 9227 (equivalent to DIN EN 1670).

RoHS	CAD	Item Code	Item Name	Material	Finish	Weight (g)	Carton
–	2030	160-056-880	180SUS-P6T	Stainless Steel (SUS304)	Barrel Polishing	15	400

Door size and recommended hinge quantity

The number of hinges mounted varies according to the door dimensions. For doors of the same weight, a larger distance between the upper and lower hinges will enhance strength.
Generally, when using 3 hinges, the intermediate hinge should be a little higher than the centre point between the upper and lower hinges for enhanced strength.
Note: Use the figure only as a guideline.

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Door Width	Door Thickness	Installation Pitch
Max. 450	Max. 20	Min. 300

Caution

- Set door centre of gravity at door centre.
- If you want to increase the door width, please increase the number of hinges accordingly.
- Attach the upper and lower hinges within 100 mm from the edge of the door. When using three or more, install at regular intervals.
- Figures shown in the diagram are only indicative. Please always test before finalising your design.
- Please contact us for any other configuration.
- All screw holes should be used.