AL SERIES

AL Series 105° Soft Closing Concealed Hinge for Aluminum Frames with Fixed Plate

Specification

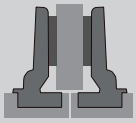
Opening Angle	105°
Function	Soft Close
Plate Type	Fixed Plate
Cup Depth	Aluminum Frame Die Cut
Cup Diameter	42/28 mm
Drilling Distance	Aluminum Frame Die Cut
Door Thickness	19 mm - 23 mm
Material	Cold Rolled Steel
Height Adjustment Range	4 mm
Overlay Adjustment Range	6 mm
Depth Adjustment Range	5 mm
Finish	Copper Nickel
Packaging	200 Units per Carton

Notable Features

- Heavy duty product.
- Designed for thin aluminum frame.
- Flush installation for minimal effect on cabinet design.

Full Overlay

Code: ALN210F



Half Overlay

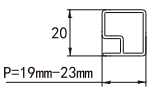
Code: ALN210H

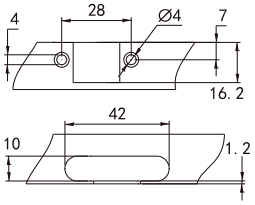
Inset

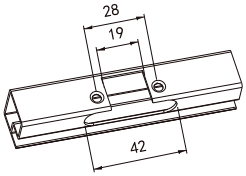
Code: ALN210S

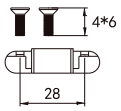
Additional Options: 1P - Individual Hinge, Caps for Arm and Cup, Mounting Plate and Screws in Sealed Bag
2P - Pair of Hinges, Caps for Arm and Cup, Mounting Plates and Screws in Sealed Bag

Drilling For Cup



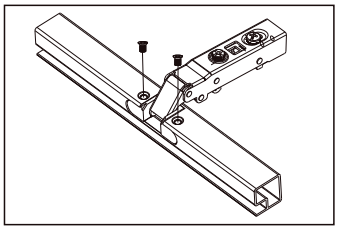






Cup Installation

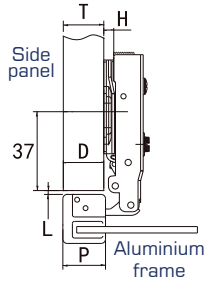
Screw-on



Installation Method	Code
Wood Screws	S2

Overlay Table

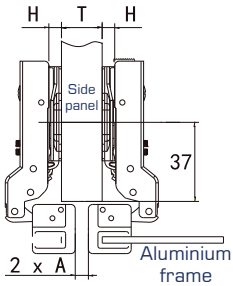
Full Overlay



H = -2 + P - D

D / P / H	19	20	21	22	23
0	17	18	19	20	21
2	15	16	17	18	19
4	13	14	15	16	17

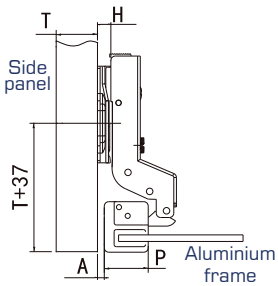
Half Overlay



H = 12 + P - D

D / P / H	19	20	21	22	23
0	7	8	9	10	11
2	5	6	7	8	9
4	3	4	5	6	7

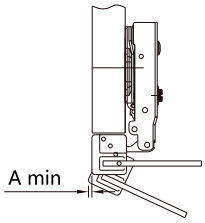
Inset

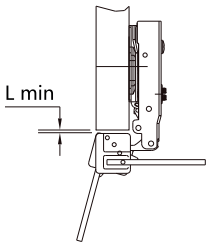


H = 20 + P + A

A / P / H	19	20	21	22	23
0	1	0	-1	-2	-3
2	3	2	1	0	-1
4	5	4	3	2	1

Minimum Reveal Table





A / P / T	14	15	16	17	18	19	20	21	22
19	0,3	0,5	0,7	0,9	1,2	1,5	1,8	2,2	2,6
20	0,3	0,5	0,7	0,9	1,1	1,4	1,8	2,1	2,5
21	0,2	0,4	0,6	0,9	1,1	1,4	1,7	2,0	2,4
22	0,2	0,4	0,6	0,8	1,1	1,3	1,6	2,0	2,4
23	0,2	0,4	0,5	0,8	1,0	1,3	1,6	1,9	2,3

L / K / T	14	15	16	17	18	19	20	21	22
3	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0
4	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,0	0,2
5	0,0	0,0	0,0	0,0	0,0	0,3	0,5	0,8	1,0
6	0,0	0,3	0,5	0,8	1,0	1,3	1,5	1,8	2,0
7	1,0	1,3	1,5	1,7	2,0	2,2	2,5	2,7	2,9

K = Boring distance

P = Aluminum frame width

T = Door thickness

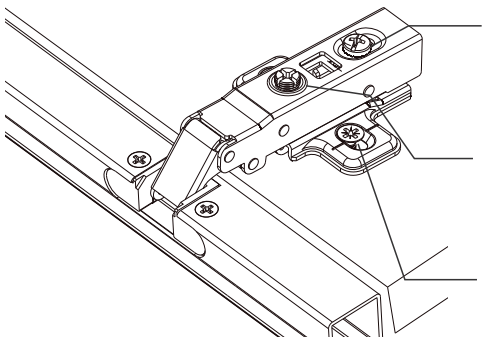
A = Minimum gap (A) for door with a door edge radius

L = Gap between door and panel

Note:

The minimum parameters in the reveal tables are based on doors with straight, square edges. A rounded or beveled profile will change the minimum reveal required.

Hinge Adjustment



Depth Adjustment
Move the hinge laterally to adjust door gap.

Horizontal Adjustment
Rotate the hinge arm screw to increase or decrease door overlay.

Vertical Adjustment
Adjust the mounting plate to increase or decrease the door height.

Note:

The referenced adjustment range described is the product design range. The actual design of the cabinet and the drilling method may have a certain impact on the parameters.