

INTEGRATED HINGE DOORS with Salice AIR HINGES

technical manual

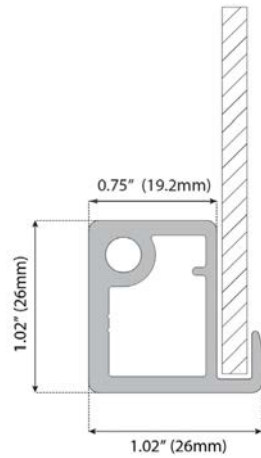


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AF012



Design Guidelines:

- Ideal for transparent applications with visible cabinet interior
- Hinges are fully concealed in upper and lower door corners
- Maximum height = 106.25" (2699mm)
- Maximum width = 24" (610mm)
- Maximum door weight = 55 lbs (25 kg)
- Minimum height = 5.5" (139.7mm)
- Minimum width = 5.5" (139.7mm)
- Maximum square footage = 17.7 sf
- NOT recommended as drawer fronts or lift up doors
- Door thickness = 1" (26mm)

Profile Finishes

Anodized

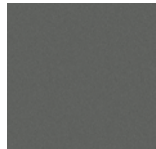


natural aluminum (N)

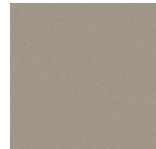


brushed stainless (S)

Coated



graphite (GR)



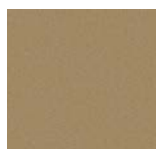
arctic silver (AS)



luxe bronze (LB)



onyx - black
matte (X)



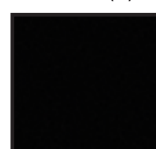
gold (GLD)



modern brass
(MB)



bronze matte
(BZM)



black (B)



Insert Specifications:

- 4mm (.156")
- Handle hole can **NOT** be drilled through the frame
- Handle hole locations must be specified at time of order if using a glass insert

To Calculate Insert Size:

Insert Width = Door Width - 0.25" (6mm)

Insert Height = Door Height - 0.25" (6mm)



Hinge Information:

AF012 utilizes Salice AIR hinges.

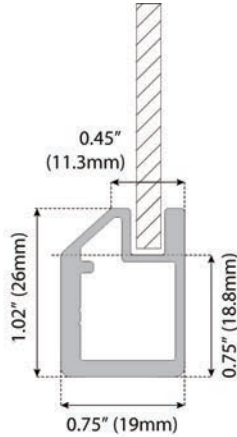
Hinge Finish Options:

- Titanium
- Nickel

Hinge Motion Options:

- Soft Close
- Push to Open

AF013



Design Guidelines:

- Ideal for transparent applications with visible cabinet interior
- Hinges are fully concealed in upper and lower door corners
- Maximum height = 106.25" (2699mm)
- Maximum width = 24" (610mm)
- Maximum door weight = 55 lbs (25 kg)
- Minimum height = 5.5" (139.7mm)
- Minimum width = 5.5" (139.7mm)
- Maximum square footage = 17.7 sf
- NOT recommended as drawer fronts or lift up doors
- Door thickness = 3/4" (18mm)

Profile Finishes

Anodized

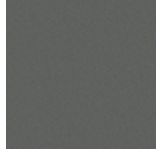


natural aluminum (N)

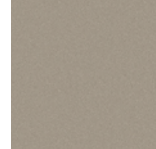


brushed stainless (S)

Coated



graphite (GR)



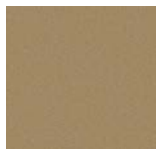
arctic silver (AS)



luxe bronze (LB)



onyx - black
matte (X)



gold (GLD)



modern brass
(MB)



bronze matte
(BZM)



black (B)

Insert Specifications:

- 4mm (.156")
- Handle hole can **NOT** be drilled through the frame
- Handle hole locations must be specified at time of order if using a glass insert

To Calculate Insert Size:

Insert Width = Door Width - 1.52" (38.5mm)
Insert Height = Door Height - 1.52" (38.5mm)



Hinge Information:

AF013 utilizes Salice AIR hinges.

Hinge Finish Options:

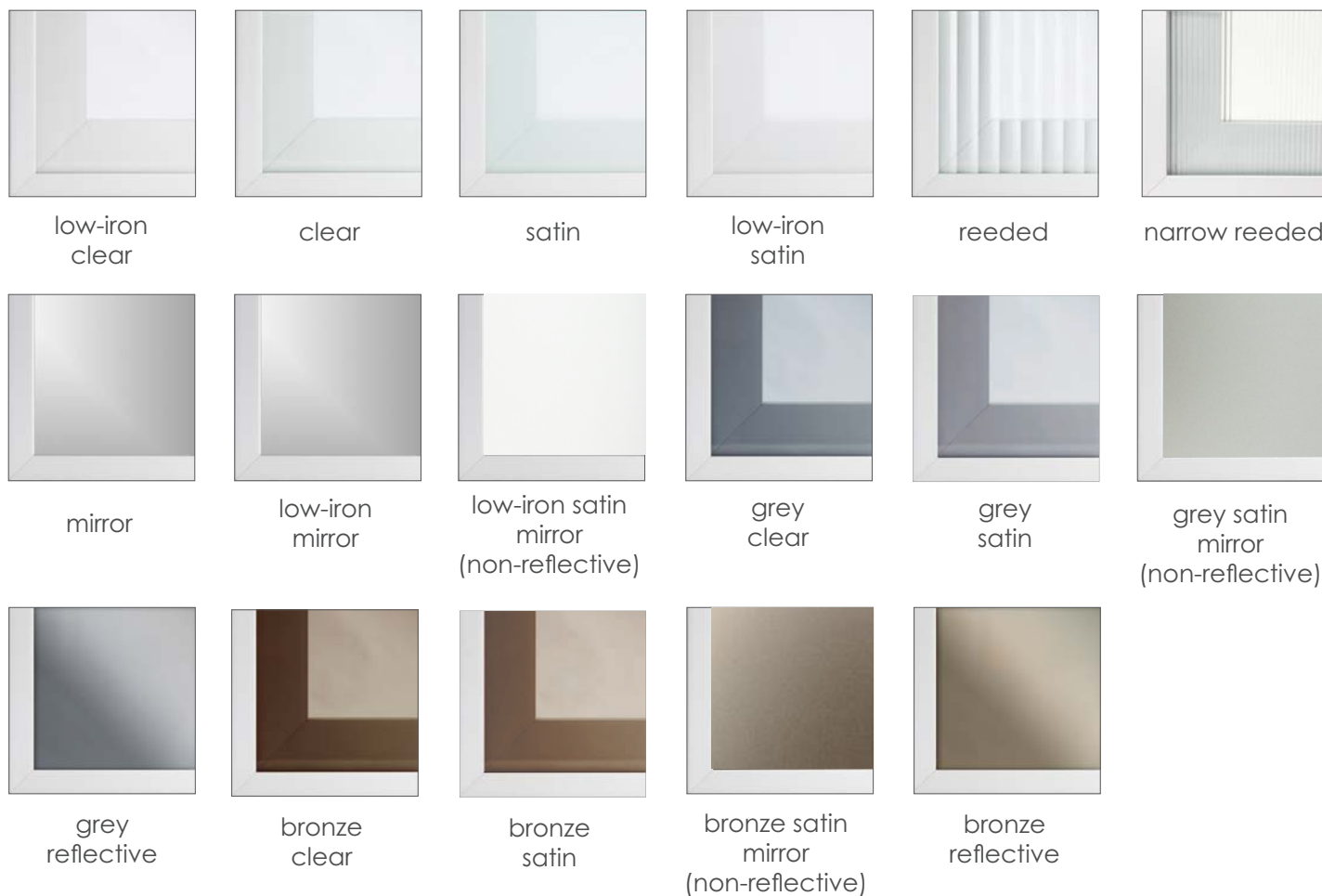
- Titanium
- Nickel

Hinge Motion Options:

- Soft Close
- Push to Open



Glass & Mirror Inserts



Additional Information

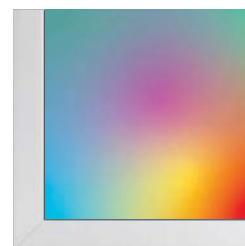
- Glass inserts are 5/32" (4mm) thick
- Etched and patterned side facing in
- Glass is tempered safety glass without a tempered logo, unless otherwise specified
- Mirror glass is not tempered, but includes safety backer
- Pattern glass options (lustral D & reeded) have max height of 84" (2133mm)

Backpainted Glass

- High quality water based paint on low iron glass
- All glass is tempered safety glass without a tempered logo unless otherwise specified
- Non-Standard and Custom colors available
- All backpainted glass has a light grey backer for added durability



non-standard color



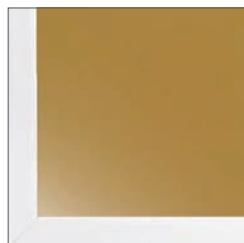
custom color



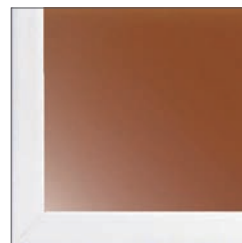
white
gloss



sand
gloss



amarillo
gloss



sienna
gloss



slate
gloss



white
matte



sand
matte



amarillo
matte



sienna
matte



slate
matte



black
gloss



cream
gloss



oasis
gloss



navy
gloss



mineral
gloss



black
matte



cream
matte



oasis
matte



navy
matte



mineral
matte

*Images may not be exact representations of color and finish options. Contact Element Designs for samples.

3form® Architectural Resin

- Inserts are 5/32" (4mm) thick with Sandstone finish on front and back
- Inserts contain organic materials and may vary in color and density



vera pure



villa pure



woven lokta pure



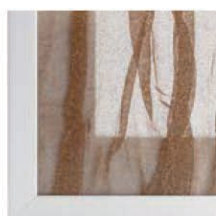
linea ivory



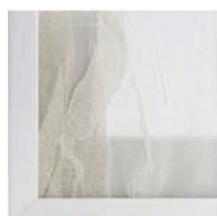
tribe pure



quattro carbon



swept gold



swept silver



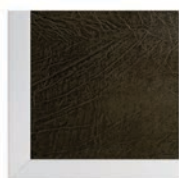
wisp silver



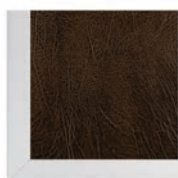
gold weave
metallic

Recycled Leather

- Recycled Leather on both sides
- Inserts are 5/32" (4mm) thick
- Available as cut-to-size panels
- Sustainable and resilient



grey umber
buffalo



cocoa buffalo



gold grey metallic
buffalo



black shagreen



pebble shagreen



grey stone
shagreen

dECOLuxe Solid Acrylic

- Not available with AF006 or AF010
- Water resistant, UV and fade resistant
- Inserts are 5/32" (4mm) thick



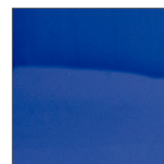
alpine white



white



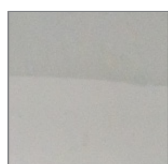
turquoise



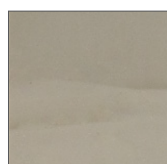
cobalt blue



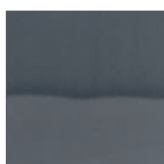
signal red



light grey



stone grey



anthracite



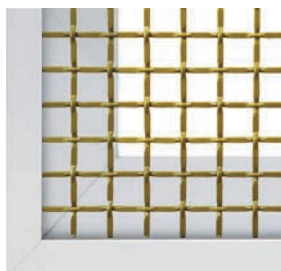
black

New Wire Mesh Grille Insert Options

- Available with all frame profiles EXCEPT, AF006, AF009, AF010, and AF210
- Maximum size is 28" x 60", except in frame profiles AF012 & AF013 where the max size is 24" x 60"
- NOT available in cut-to-size, only as insert option in aluminum frame doors
- 3 available patterns: Fine, Bold, & Classic
- 3 available finish options: Brass, Onyx, & Pewter



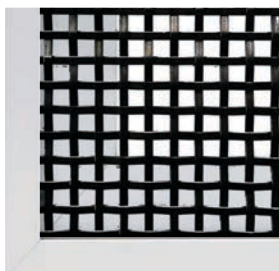
classic onyx
SQ1214



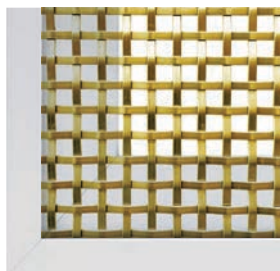
classic brass
SQ1214



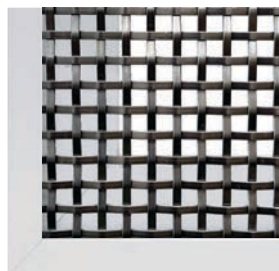
classic pewter
SQ1214



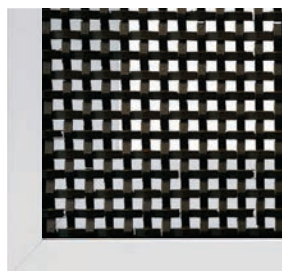
bold onyx
SQ286S



bold brass
SQ286S



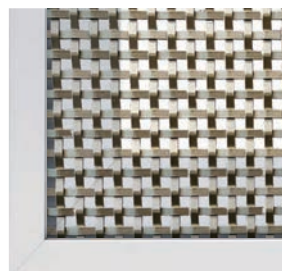
bold pewter
SQ286S



fine onyx
RE25



fine brass
RE25



fine pewter
RE25

Knobs



K001



K005



K007



K008



K009

Bar Handles



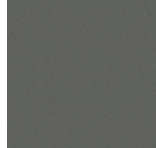
available lengths:

- P1-127 Length: 7 3/8" (5" c. to c.)
- P1-190 Length: 9 13/16" (7 1/2" c. to c.)
- P1-250 Length: 12 13/16" (9 13/16" c. to c.)
- P1-380 Length: 17 5/16" (14 15/16" c. to c.)
- P1-640 Length: 27 9/16" (25 3/16" c. to c.)
- P1-880 Length: 37" (34 5/8" c. to c.)

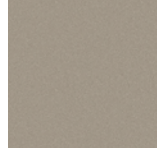
Finish Options



natural aluminum (N)



graphite (GR)



arctic silver (AS)



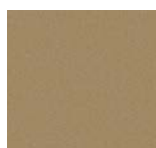
luxe bronze (LB)



onyx - black
matte (X)



brushed stainless (S)



gold (GLD)



modern brass
(MB)

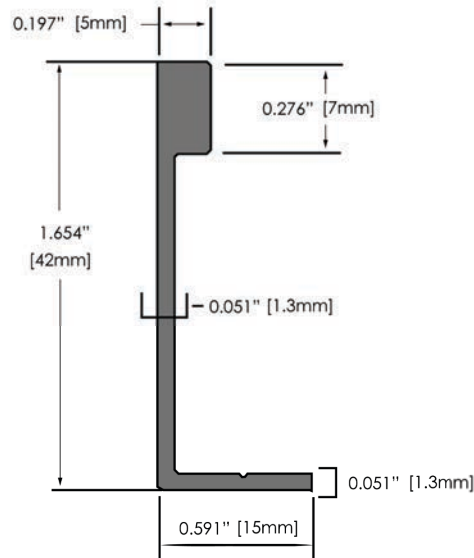


bronze matte
(BZM)



black (B)

FINGER PULLS



DESIGN GUIDELINES

- Sleek wrap around finger pull design
- Mounts to back of door or drawer front
- Backplate Height: $\frac{9}{16}$ " (15mm)
- Finger Pull Height: $1 \frac{1}{16}$ " (42mm)
- **Profile AF013 ONLY available in standard 3" length**
- Brushed Stainless finish ONLY available with FP-3



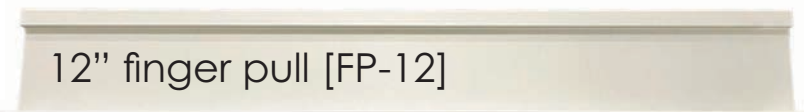
3" finger pull [FP-3]



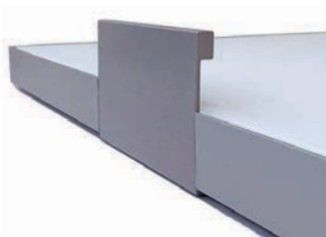
6" finger pull [FP-6]



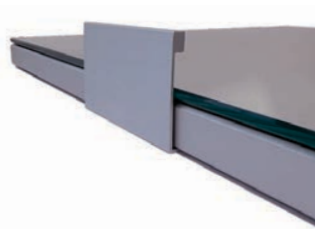
9" finger pull [FP-9]



12" finger pull [FP-12]



flush mount



surface mount

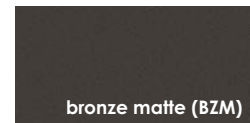


natural aluminum (N)

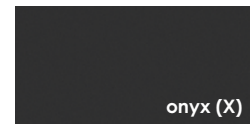


brushed stainless (S)

*(S) ONLY avail FP-3



bronze matte (BZM)



onyx (X)



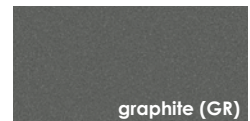
black (B)



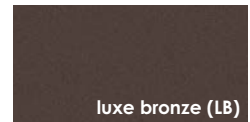
arctic silver (AS)



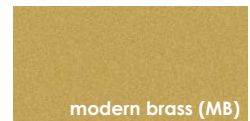
gold (GLD)



graphite (GR)



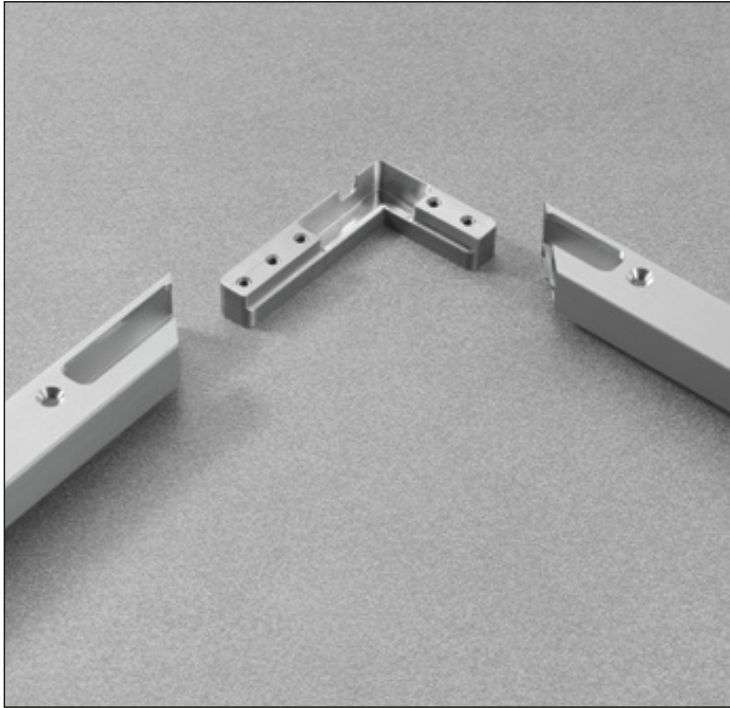
luxe bronze (LB)



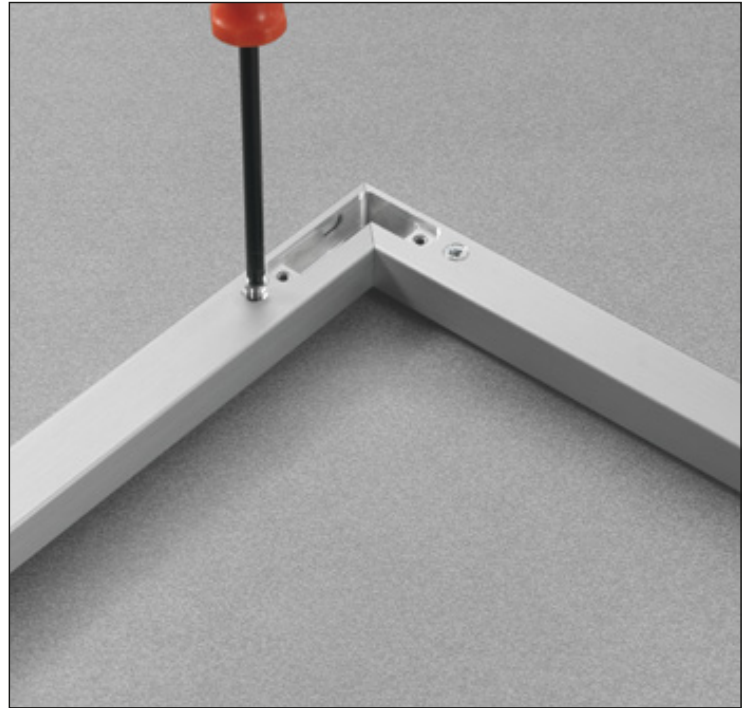
modern brass (MB)

The profiles which make up the door must be cut and the ends mitred at 45°, and milled for the insertion of the corner connectors.

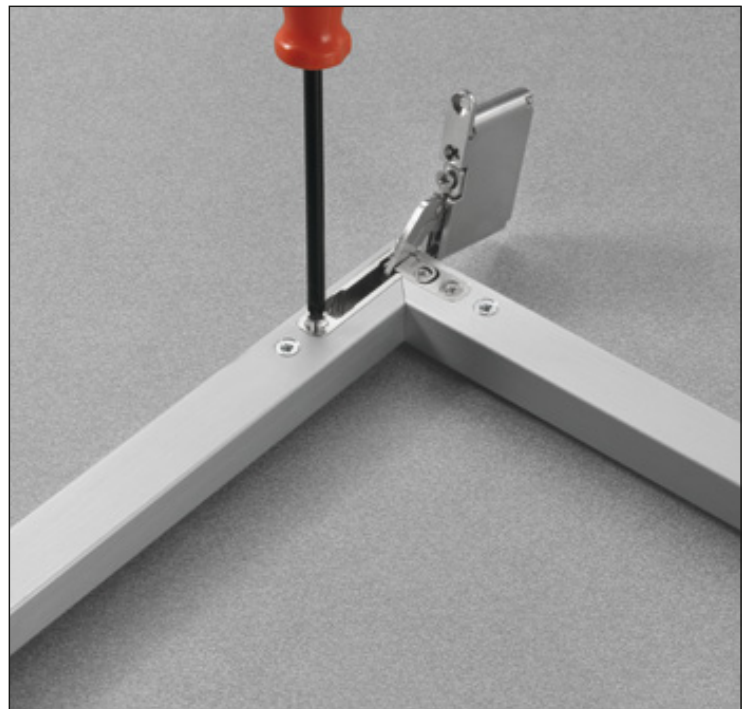
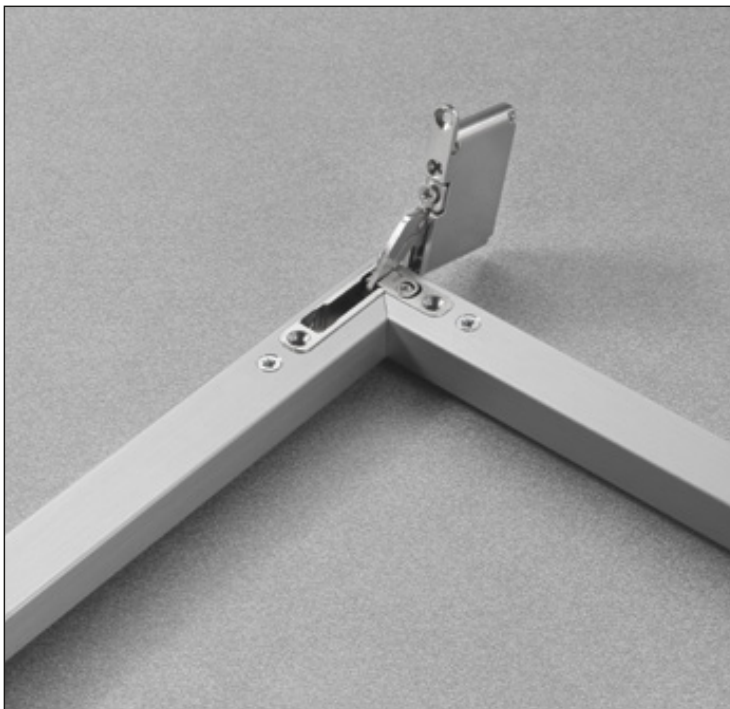
Insert the corner connectors into the profile and fix them with the screws provided.



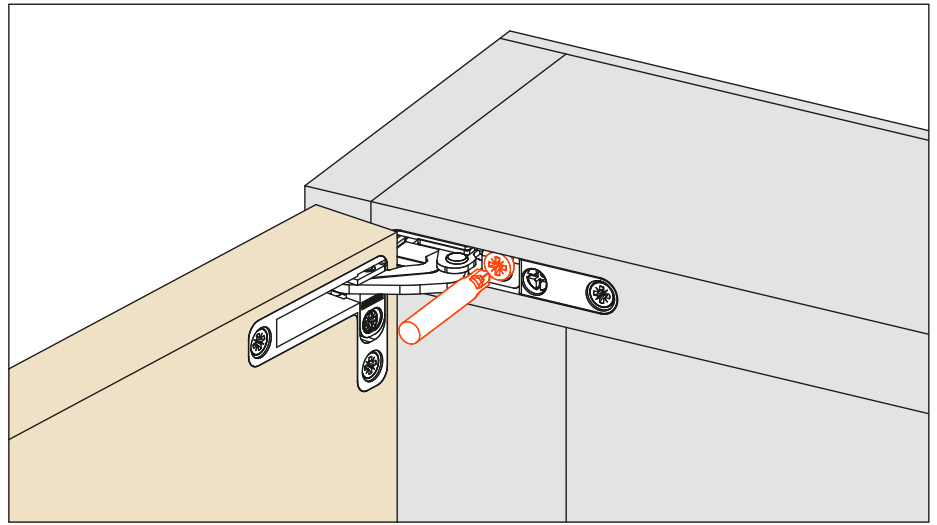
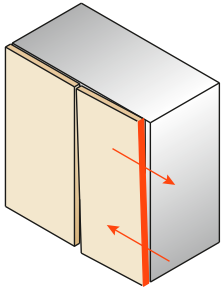
Insert the hinges into the recesses.



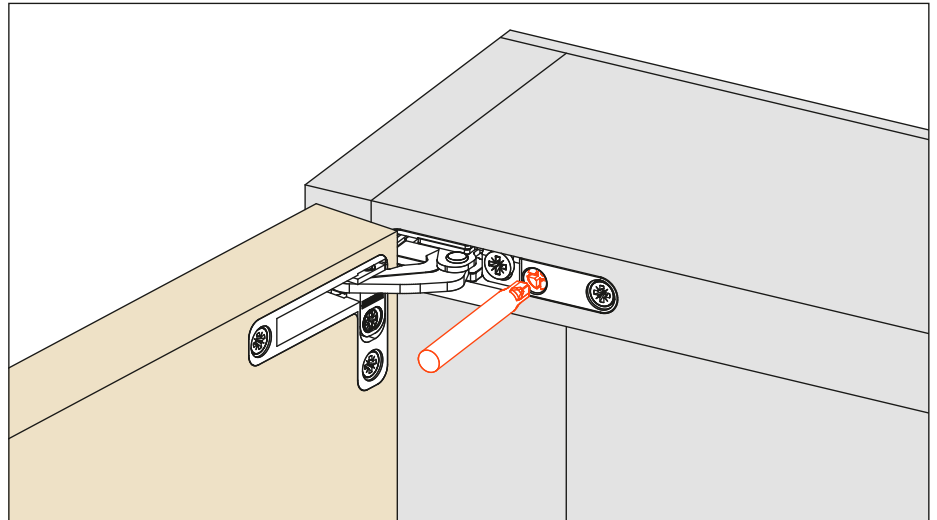
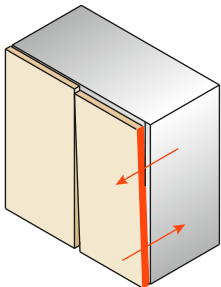
Fix with the screws provided.



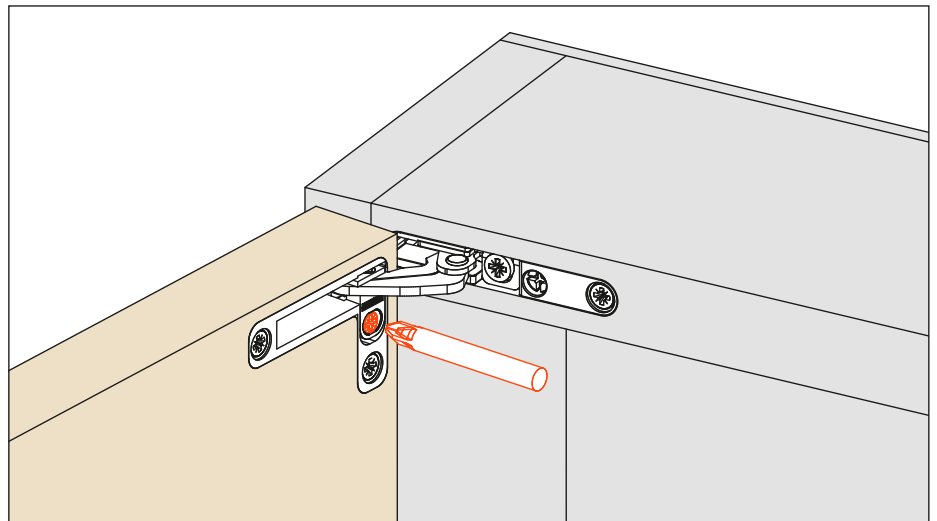
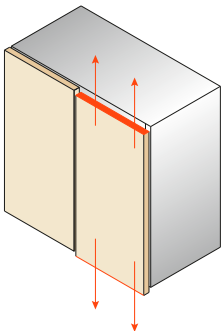
Side adjustment range +2 to -2



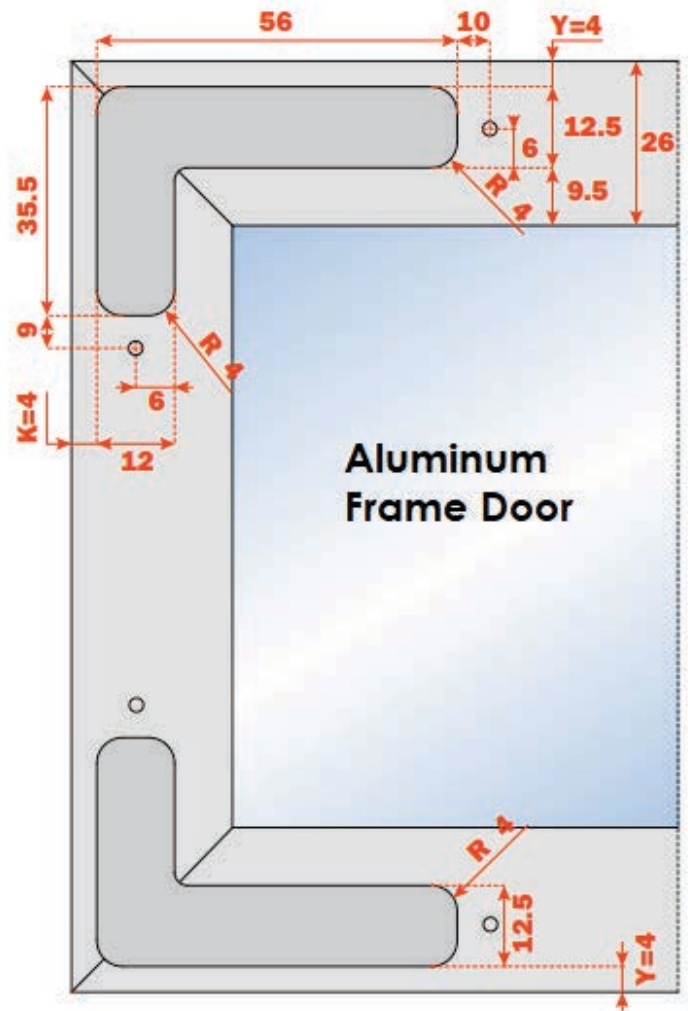
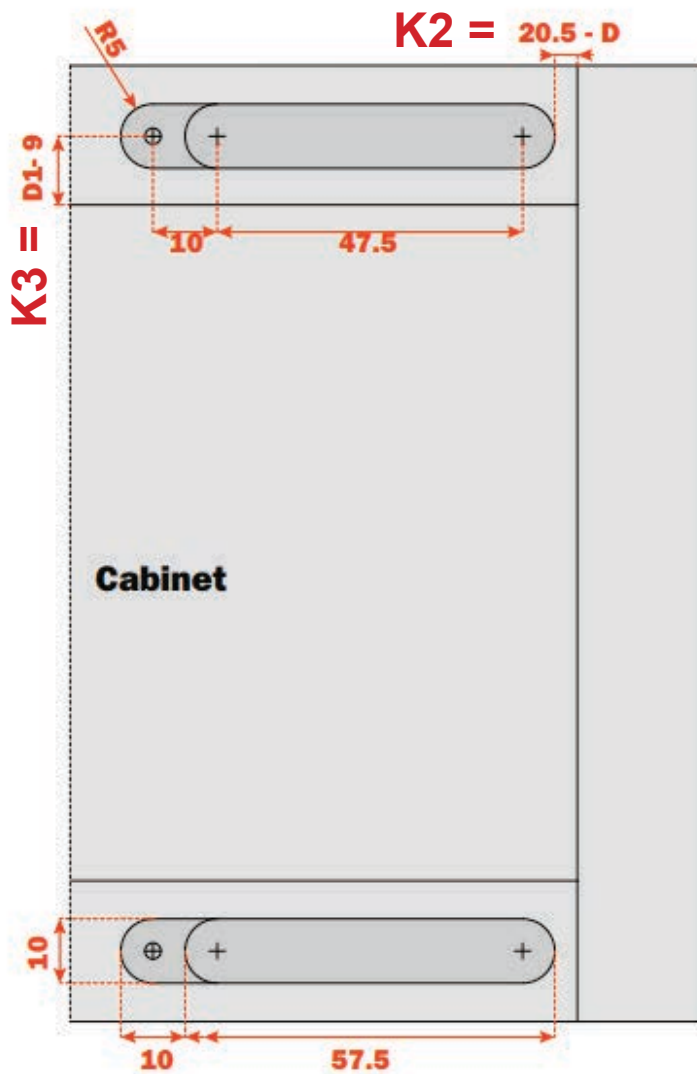
Depth adjustment range +2 to -0.5



Height adjustment range +1.5 to -1.5



Note: Always use a #2 Pozi screw driver for adjustments.



Cabinet hinge Side Drilling Distance (K2)
(refer to chart on next page)

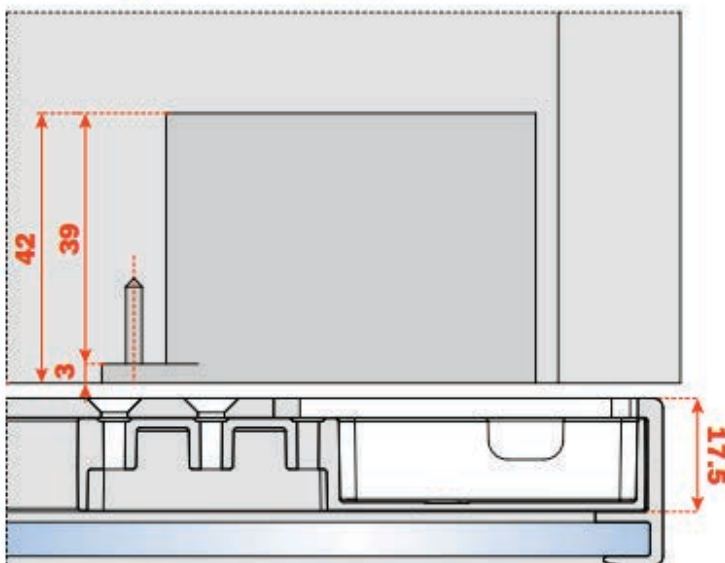
$$K2 = 20.5 - D$$

D = Side Overlay (max = 20.5mm)

Cabinet hinge Top Drilling Distance (K3)
*Note, references from bottom of panel

$$K3 = D1 - 9$$

D1 = Top Overlay (min = 16.5mm)



Cabinet Drilling Template

A template set is available for purchase to aid in the drilling of the holes in the cabinet box for the Salice AIR hinge, and in depth directions and “how to” videos on a USB drive are included in the set. Images and descriptions of the set contents are below. A router is needed to drill the holes.



- (2) Short “U” shaped aluminum channels used as stop bars.
- (4) Long aluminum channel guide rails.
- (2) Large black templates (1R & 1L).
- (1) Hardware package
- (1) Whiteside Tool pack



Whiteside 10 mm dia., spiral up-cut router bit and 3/4" dia. brass guide bushing.



Hardware package which includes:

- (2) Allen wrenches, (8) round head machine screws & washers, (2) flat head machine screws, (8) flat channel nuts for long guide rails, (2) flat channel nuts for small aluminum stop bars and (4) ring pins.

K1 (door drilling distance) = 4mm
(set dimension for aluminum frame doors)

K2 = top/bottom drilling distance	OVERLAY (D)
0	20.5
0.5	20
1	19.5
1.5	19
2	18.5
2.5	18
3	17.5
3.5	17
4	16.5
4.5	16
5	15.5
5.5	15
6	14.5
6.5	14
7	13.5
7.5	13
8	12.5
8.5	12
9	11.5

Max overlay is 20.5mm with a K2 of 0mm

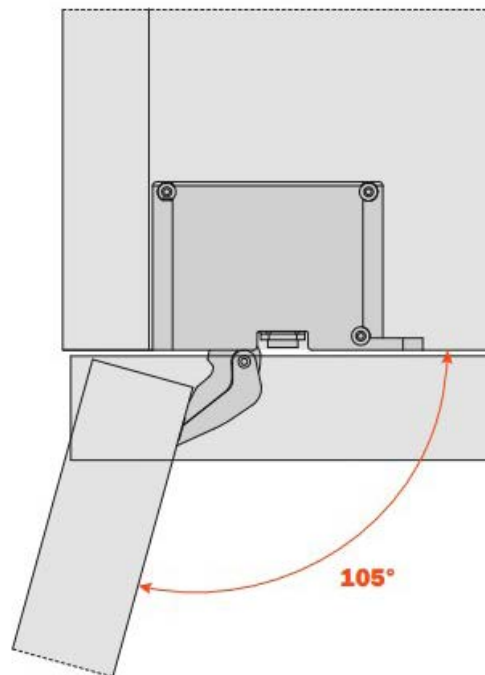
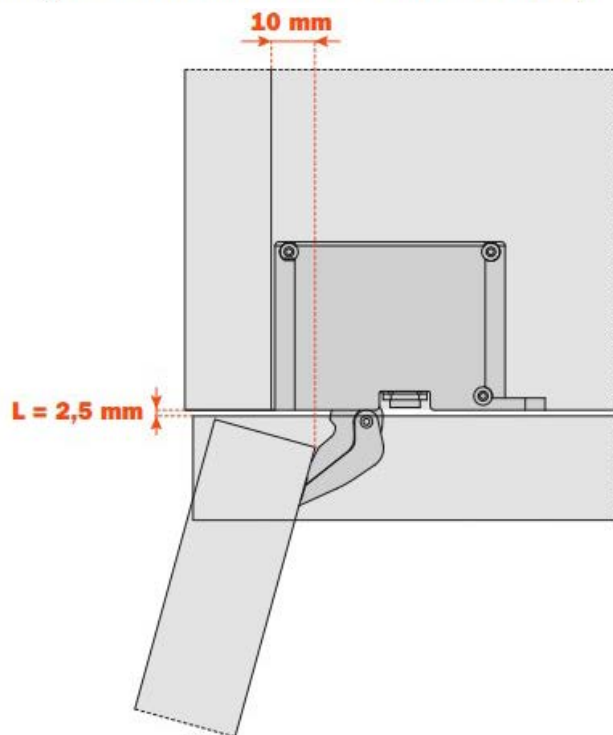
Please contact Salice America for more detailed information regarding how to use the drilling templates and set up the overlay.

NOTE: It is recommended to choose the overlay that allows the largest drilling distance (K2) for the door and panels.

For drilling wood doors, please contact Salice for drilling distance information.

Projection of the door

Projection of the door from the cabinet side at the max. opening.
The figures are based on K value = 3 and door overlay = 19 mm.

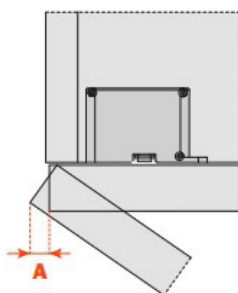


Technical features

Air hinges, with integrated soft close mechanism or Push self-opening system, are small and compact. They are fitted to the top and bottom panel of the cabinet.

For min. 18 mm thick wooden doors and for aluminium-framed doors.
Max. door weight 20 Kg.
Max. dimensions of the door : height 2100 mm, width 600 mm.
16.5 mm deep metal cup.
L = 2.5 mm
105° opening.
Possible drilling distance on the door (K): from 3 to 6 mm for wooden doors.
Fixed K = 4 mm for aluminium-framed doors.

Space needed to open the door



T=	18	20	22	24	26	28	30	32
K=3 A=	0	0.2	0.5	0.8	2.3	4.9	7.5	10.0
K=4 A=	0	0.2	0.4	0.8	1.3	3.9	6.5	9.0
K=5 A=	0	0.2	0.4	0.8	1.3	2.9	5.5	8.0
K=6 A=	0	0.2	0.4	0.8	1.2	1.9	4.5	7.0

The above values are calculated on the assumption that the doors have square edges. They are reduced if the doors have radiussed edges.

Cleaning & Care Guide

To insure proper cleaning and care of your product, please follow these simple suggestions for our materials:

Glass (gloss or satin surfaces)

We recommend using 99% isopropyl alcohol, citrus or vinegar based cleaners on a clean, non-abrasive cloth or paper towel. If a heavy stain is present and does not come clean using the suggestions above, use isopropyl alcohol with a Magic Eraser by gently scrubbing until the mark is removed.

Backpainted Glass

Follow instructions above for the gloss and/or satin surface of the glass, opposite the painted side. For the backpainted water based coating, we recommend using a mildly damp (water only) on a non-abrasive cloth to gently clean the coated side of the glass.

Aluminum Extrusions

Use a clean cloth with a mild detergent to clean the aluminum.

NEVER use an abrasive cleaning pads such as a metallic sponge, solvents, strong detergents or other chemical agents when cleaning glass or aluminum.

Warranty

Element Designs' aluminum frame cabinet door products are covered by a limited liability warranty from defects in material and workmanship over the functional lifetime of the doors. The warranty includes any defects in the fabricated door size, boring locations, aluminum framing flaws outside of quality standards, and glass imperfections outside of quality standards. Element Designs also warrants its doors from deterioration, discoloring, degrading, or overall changing through the course of the product's lifetime. This warranty does not apply if, in the judgment of Element Designs, the product fails due to damage from shipment, handling, storage, accident, abuse or misuse, or if it has been used or maintained in a manner not conforming to product's care instructions, has been modified in any way, or has been defaced. Repair by anyone other than Element Designs or an approved agent voids this warranty. The maximum liability of Element Designs is the product purchase price.