Frameless Glass Doors

technical manual v7.25

Features and Benefits

Frameless glass doors by Element Designs are a clean, contemporary cabinetry or closet door solution. The doors are ideal in closet, commercial, retail, bathroom and kitchen applications, especially where full interior cabinet visibility is desired. The specially engineered glass door CRISTALLO hinges are pre-adhered to the glass by Element Designs and arrive ready to be installed as cabinet doors.

- Custom manufactured to 1/32"
- +/- 2mm tolerance
- 6mm (1/4") thick glass
- Flat polish edges
- Tempered glass for safety and durability
- Pre-installed CRISTALLO door plate
- Additional glass fabrication available
- Exclusive U.S. distributor of CRISTALLO hinges

Glass Options

low-iron clear	low-iron satin	clear	satin	grey clear (smoked)	bronze clear

- Glass is 1/4" (6mm) thick
- Etched side facing out for all satin glass options
- Glass is tempered safety glass without tempered logo unless otherwise specified
- Custom pattern etching also available
- Contact Element Designs for availability of other glass options in additional thicknesses

Size Limitations

- Maximum square footage = 14 sq ft
- Maximum height = 84" (2133.6 mm)
- Minimum width = 24" (609.6 mm)
- Contact Element Designs for applications exceeding these recommended maximums

6mm Door Weight Calculator

- 6mm glass weights 3 lbs. per square foot
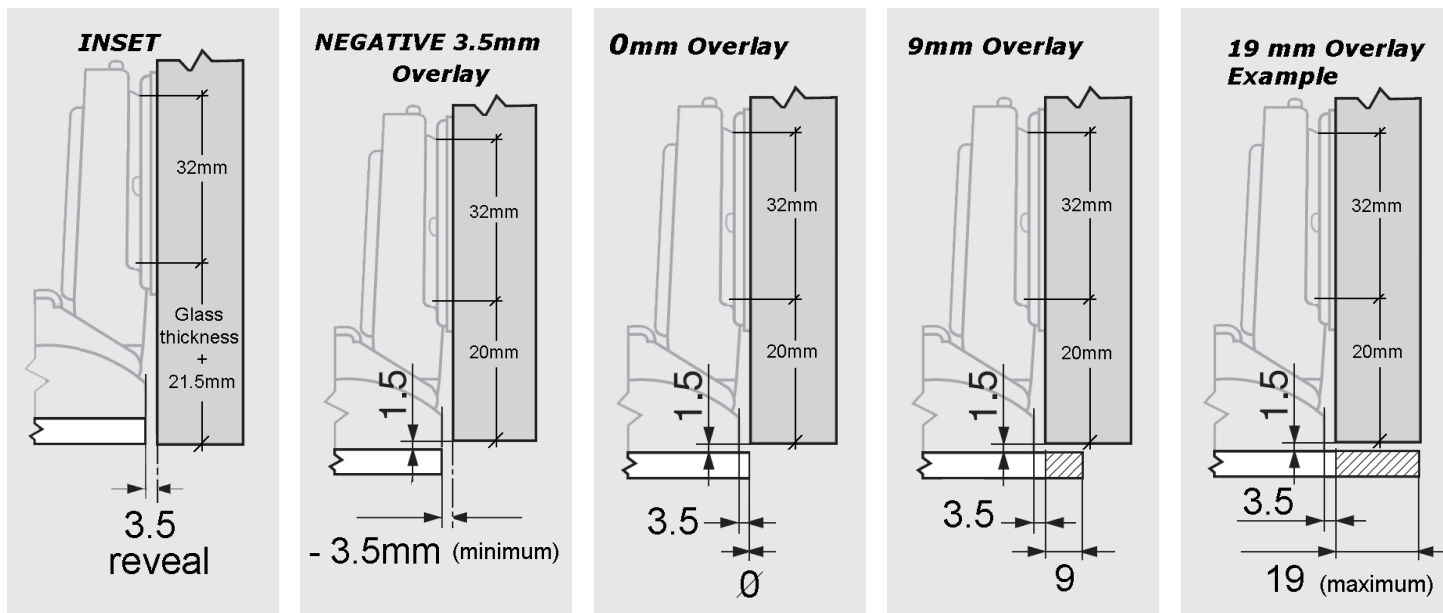- Square Footage Calculation:

    (H x W) $\div$ 144 = Door SQFT

    Door SQFT x (3) = Door Weight

Hinge Quantities

Height	Weight
30"	<13 lbs
55.0"	13 - 26 lbs
70.0"	26 - 34 lbs
84.0"	34 - 42 lbs

Cabinet Specification & Overlay Dimension Examples

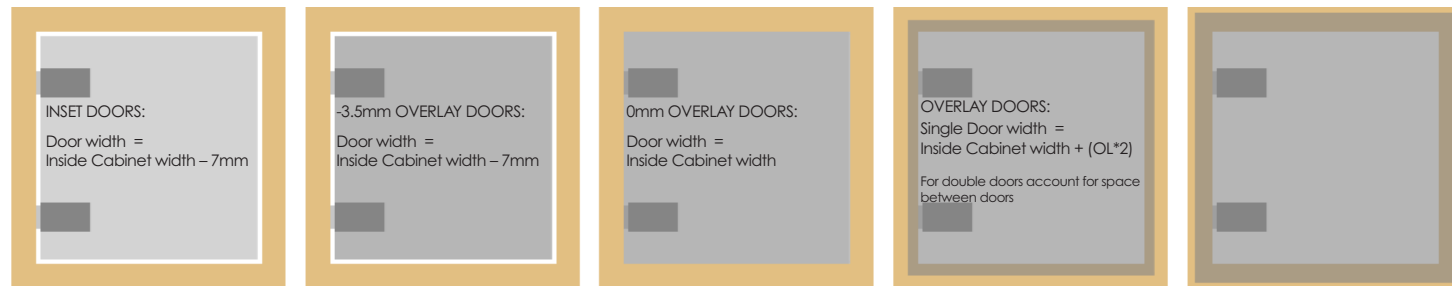| INSET	NEGATIVE 3.5mm Overlay	0mm Overlay	9mm Overlay	19 mm Overlay Example
32mm	32mm	32mm	32mm	32mm
Glass thickness + 21.5mm	20mm	20mm	20mm	20mm
1.5	1.5	1.5	1.5	1.5
3.5 reveal	− 3.5mm (minimum)	3.5 / 0	3.5 / 9	3.5 / 19 (maximum)

Overlay dimension can be between -3.5 and 19mm.

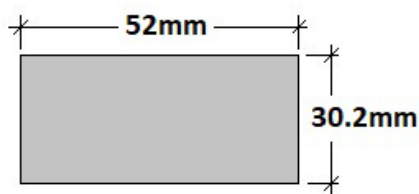Mounting plate setback locations based on 175H3100 mounting plate included with doors.

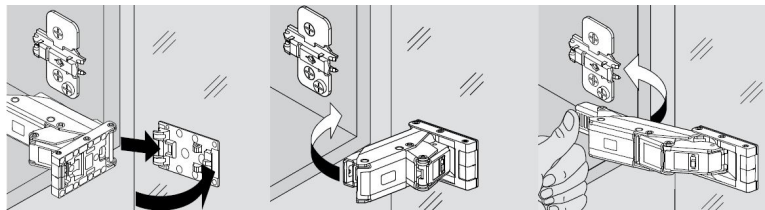For hinge location calculation, B = 3.5mm + Side Overlay
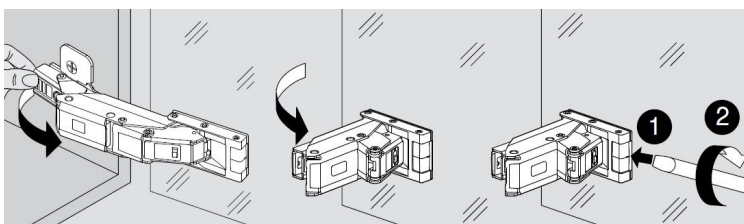
Door Size Calculation

INSET DOORS:

Door width = Inside Cabinet width – 7mm

-3.5mm OVERLAY DOORS:

Door width = Inside Cabinet width – 7mm

0mm OVERLAY DOORS:

Door width = Inside Cabinet width

OVERLAY DOORS:

Single Door width = Inside Cabinet width + (OL*2)

For double doors account for space between doors

Door Plate Dimensions

52mm

30.2mm

Installation Instructions

Hinge Assembly

Hinge Removal

1   2

Hinge Adjustment

Height	Side	Depth
+ / −	− / +	− / +
± 3.0 mm	± 2.0 mm	+ 3.0 mm / - 2.0 mm