

Hinge

A. Material

1. Body – Cold Rolled Brass, Machine Fabricated
2. Mechanics
 - i. Springs – Stainless Steel 18-8 min.
 - ii. Hinge Pin – Stainless Steel 18-8 min.
 - iii. Piston – Stainless Steel 18-8 min.
 - iv. Fasteners – Stainless Steel 18-8 min.
3. Gaskets – Self-Positioning – High Temp. Neoprene

B. Finish

1. Anodized – per AA-M22-C31, Thickness .00018” to .00030”
2. Plated – per ASTM B 456.71, SC2, Thickness .004” to .008”
3. Powder Coated – per AA-M11-C11-R1X, Thickness 1.0 to 4.0 MILS

C. Attachment

1. To Glass – Edge notch with non-release pin placement to eliminate glass release and greatly reduce glass slippage. (Also known as a ‘Mickey Mouse’ notch design.)
2. To Wall – # 10 x 2” min. Phillips Head Screw, Stainless Steel 18-8 or 410 with zinc plating.

D. Capacity

1. Glass Thickness – 3/8” and 1/2”
2. Live Load Per Hinge – 55 lbs
3. Maximum Door Weight – 2 Hinges = 110 lbs / 50 kg, 3 Hinges = 160 lbs / 72 kg
4. Maximum Door Width – 36”

E. Swing Positioning

1. Range of Motion
 - i. In and Out 90 Deg.
 - ii. Out only 90 Deg.
2. Closure Adjustment
 - i. Self Centering
 - ii. 5 Deg. Past Center
 - iii. Adjustable Angle Set

F. Style

1. Swing
 - i. Wall Mount
 1. Full Back Plate
 2. Short Back Plate
 3. Off Set Back Plate

- ii. Glass-to-Glass 90 Deg.
- iii. Glass-to-Glass 180 Deg.
- iv. Glass-to-Glass 135 Deg.

All styles available with Square Corner - Square Edge 'Traditional' or, Round Corner - Beveled Edge 'Classic' Design. Many other styles available upon request

2. Pivot

- v. Bottom and Top with Top mounted in Header
- vi. Bottom and Top with Top mounted to Wall
- vii. Glass-to-Glass Mount

All styles available with Round Corner - Beveled Edge 'Classic' Design.

3. Operable and Fixed Transom

- i. Glass-to-Glass Mount
- ii. Glass-to-Wall Mount
- iii. Glass-to-Header Mount

F. Available Finishes

Chrome, Satin Chrome, Brass, Satin Brass, Brushed Satin Chrome, Gold Plated, Brushed Nickel, Polished Nickel, Brushed Pewter, Oil Rubbed Bronze, Gun Metal, Antique Brass, White on Chrome, Ultra Brass

Clamps

A. Material

- 1. Body – Cold Rolled Brass, Machine Fabricated
 - i. Fasteners – Stainless Steel 18-8 min.
- 2. Gaskets – Self-Positioning – High Temp. Neoprene

B. Finish

- 1. Anodized – per AA-M21-C31, Thickness .00018" to .00030"
- 2. Plated – per ASTM B 456.71, SC2, Thickness .004" to .008"
- 3. Powder Coated – per AA-M11-C11-R1X, Thickness 1.0 to 4.0 Mils

C. Attachment

- 1. To Glass – Hole or Edge Notch
 - 2. To Wall – # 10 x 2" min. Phillips Head Screw, Stainless Steel 18-8 or 410 with zinc plating.
- All styles available with Square Corner - Square Edge 'Traditional' or, Round Corner - Beveled Edge 'Classic' Design. Many other styles available upon request

Glass

A. Safety Tempered per ANSI Z97.1 and SGCC 2144

B. Minimum Thickness = 3/8" - Maximum Thickness = 1/2"

C. Dimensional Tolerance per ASTM C 1036-85 & ASTM C 1048-85

D. Edge Preparation

- 1. Perimeter – Flat – Brilliant Polish
- 2. Miter – Brilliant Polish

3. Hinge and Clamp Notch – Flat - Ground
4. Corner Notch – Flat – Polish or Ground

Aluminum Extrusions

- A. 6463-T5 Alloy per ASTM B 221
- B. Hardness (Temper) = T6 on Rockwell B scale: 20-50 see ANSI 35.1
- C. Weight and Gauge
 1. Header and Sill - Range from .190" to .400"
 2. Wall Channel - Range from .090" to .400"
- D. Finish
 1. Anodized – per AA-M22-C31, Thickness .00018" to .00030"
 2. Powder Coated – per AA-M11-C11-R1X, Thickness 1.0 to 4.0 Mils

Hardware

- A. Material
 1. Aluminum - 6463-T5 Alloy per ASTM B 221
Finish - Anodized – per AA-M22-C31, Thickness .00018" to .00030"
Powder Coated – per AA-M11-C11-R1X, Thickness 1.0 to 4.0 Mils
 2. Solid Brass - Cold Rolled Brass, Machine Fabricated
Finish - Plated – per ASTM B 456.71, SC2, Thickness .004" to .008"
Powder Coated – per AA-M11-C11-R1X, Thickness 1.0 to 4.0 Mils
 3. Seals
Rigid – Polycarbonate – Crystal Clear
Flexible – Poly Vinyl Chloride – Clear
Adhesive – Hi-Bond Acrylic – Transparent Water Clear
 4. Fasteners – Phillips Head Screw, Stainless Steel 18-8 or 410 with zinc plating.