



## In-Swing Patio Door

### Product Specifications

#### Exterior Finish

All exterior surfaces completely covered with low maintenance extruded aluminum coated with a finish that meets or exceeds AAMA 2603 performance requirements. . Standard colors include White, Architectural Bronze, Tan, Sand, Crème, Black, Dark Bronze, Brick Red, Cranberry, Hartford Green, Cocoa, and G-Brown. Custom colors are readily available, along with anodized finishes.

#### Interior Finish

All interior surfaces are unfinished wood ready for paint, stain, or natural finish. Primed and pre-finished stain or painted interiors are available.

#### Frame

Frame made from kiln dried softwoods. Components are assembled at 6-12% moisture content and are water repellent preservative treated in accordance with WDMA I.S.4. Exterior surfaces of head and side jambs are completely covered with .060" (1.5mm) extruded aluminum cladding. Corner joints are sealed with silicone and reinforced with a metal corner key and screw boss construction. Frame thickness is **1.175"** at head and side jamb.

Basic jamb width is 4 9/16" (116mm) and may be extended for different wall depths. A separate vinyl nailing fin is provided for insertion into aluminum cladding. Sill is constructed of anodized aluminum with oak interior. Optional bronze anodized ½" tall low-profile sill is also available. Sill is constructed of bronze (beige available), one piece fiberglass pultrusion. One injection molded end plug is factory installed and sealed to each end of the sill. This end plug system incorporates a patented high efficiency weep system. The end plugs are also designed and provide for keeping the wooden core of the jambs elevated from floor level. A sill weatherstrip is installed on the exterior side providing a continuous seal against water and air infiltration. One, two, three, and four panel door units have continuous head and sill. Doors are shipped KD but factory-assembly may be specified. Exterior of frame extrusion is grooved to accept accessories. Header and side jambs are fingerjoint treated pine. Clear pine and other species are available.

#### Panel

Panel is 1 23/32" (43.7mm) thick, pine veneered kiln dried softwoods and engineered wood substrate which is water repellent preservative treated. Selected panel members have LVL core for added strength and dimensional stability. Wood stiles are 4 1/2" (115 mm) in face width. Wood rails are 6-1/2" (167mm) machine clamped for square assembly, and joined with 3 dowels at each corner and secured with metal fasteners and glue. 8-1/2" and 10" bottom rails are also available. Exterior surfaces are completely covered with .060" (1.5mm) extruded aluminum. Operating door panel has 4 hinges and available with a variety of hardware options including lever and deadbolt, and multipoint options. Single units are available in both operating and stationary configurations. Two panel units are available in stationary/active, active/active and stationary/stationary configurations. Special handing options are available. Mid-rails and raised interior panels are available.

#### Glazing

3/4" (19mm) insulated glass is constructed of two lites of tempered float glass hermetically sealed around a continuous roll formed and profiled stainless steel spacer. The insulated glass sandwich features a 1/2" (13mm) captive air space. To provide and protect long-term structural integrity of this glazing system, durable clear silicone is used to bed the exterior of the insulated glass into the panel. Standard glass option carries a 20 year warranty for interior condensation due to seal failure. Wooden glazing stops, made from the same wood species as the panels, are used to secure the glass.

## Glazing Options

3/4" tempered Low E insulated glass with Argon (except when breather tubes are used). Other glazing options are available on request. Including Lift & Tilt Blinds in the Airspace, and Triple glazing. Simulated Divided Lite (SDL) available with most glazing options. Stainless steel interior spacers, wood interior and aluminum exterior grilles are used. Removable grilles are unfinished clear wood, applied to the interior surface, and exterior grilles are made from extruded aluminum bars which are color matched to the exterior of the door. A variety of glass options are available including lift and tilt blinds in the glass.

## Weather-stripping

Engineered weather stripping system combines a foam compression weatherstrip. A foam sill weatherstrip installed on the interior provides continuous seal against water and air infiltration.

## Hardware

Handle and locking operating hardware is available in either single point or multi (three) point. Standard double bore units have 2-1/8" crossbores 6" on center with a 1-3/8" backset. Multipoint stainless steel operating hardware is available in a variety of popular finishes including bright brass, antique brass, brushed chrome, oil rubbed bronze, antique nickel, satin nickel, polished chrome and painted finishes. Dummy hardware is similarly available. All operating panels have 4 hinges 3.5" X 3.5" with 5/8" radius also available in a variety of finishes. Adjustable hinges are also available with three on standard height units and four on taller units. On the true French units flush bolts top and bottom of the astragal are standard. Other options include handle activated shoot bolts and lever activated shoot bolts.

## Exterior Insect Screens

Charcoal fiberglass screen cloth (18 x 16 mesh) with clad color matched .040" (1mm) extruded aluminum frame. Door screen rides on a set of two adjustable steel rollers at both top and bottom of the screen and operates on outside track. Quad doors have two screens with field applied astragal.

Hanging screen option is available for improved ease of operation.

Insect screens are intended to allow air and light in and to keep insects out. They are not intended to stop anyone or anything from falling through an open door. For safety screens or other security devices contact your local building supply retailer.

## Full Surround Wood Grilles

Full surround rectangular unfinished wood grilles are available.

## Optional Wood Species Available

A full variety of stock and special order wood species are available.

## Jamb Extensions

Interior wood jamb extensions are shipped loose for field application on KD doors. Extensions are applied to the interior of head and sides of the frame and are 11/16" (17.5mm) thick, clear ponderosa pine to accommodate wall depths up to 7 1/16" (180mm) with one piece, and up to 8 9/16" (217mm) with two pieces.

2" exterior aluminum extension jambs combined with extended sills available.

## Installation

Swing door is installed by nailing through a vinyl nailing fin, through exterior sheathing, and into wall framing. Sill must be caulked to sub floor. Door unit must be square, plumb, and level in the opening. Assembly and installation instructions must be followed carefully. Care must be taken to insure that a frame is not twisted or racked out of its rectangular shape.

**Performance:** Test report for both standard and multipoint available upon request.