

 Approved for hurricane impact applications. See Test Results section for additional information.

## OUT-SWING CASEMENT

### Hardware

#### Pushbar Operator

Duratherm proprietary pushbar comprised of oxidized bronze alloy components and a solid brass bar, copper plated and oxidized to match bronze. The sill-mounted pushbar operator is designed to be manually operated for the entire length and to hold the sash at intermediate points. Available in one piece or hinged at mid-point.

Finishes: Oil-rubbed Bronze (US10B), Lacquered Red Bronze (US20A), White Bronze (US26D).

Egress: Available as quick-release pin at sash connection.

#### Roto-Gear Operator

Truth Maxim® stainless steel or EntryGard® steel roto gear operator with hardened steel drive worm and plastic slider for smooth operation. Cover and crank handle in high pressure die-cast zinc.

Finishes: Oil-rubbed Bronze (US10B), Satin Nickel (US15).

Egress: Available as quick-release lever at sash connection.

#### Sash Locks

Oxidized bronze alloy latches ensure positive, uniform locking action.

Finishes: Oil-rubbed Bronze (US10B), Lacquered Red Bronze (US20A), White Bronze (US26D).

#### Hinges

Heavy duty extension hinges, solid brass or zinc chromate coated steel. Hinges are designed to help the operator hold the sash in open positions, and to permit ready removal and replacement of the sash. Truth heavy duty 4-bar stainless steel hinges are available for appropriate-sized units. Solid brass 4" five-knuckle flush ball-bearing butt hinges available for egress units.

#### Optional Hardware

Custodial locks, sash restrictors, electric or manual remote operators, adjustable friction stays.

### Insect Screens

1" x ¼" tubular extruded frames in anodized bronze, mill finish aluminum or custom color painted aluminum. Mesh of 18 x 16 screen cloth held with vinyl spline, available in charcoal finished aluminum, mill finish aluminum, stainless steel or bright brass. Maximum width of screen mesh is 72". Wood-framed screens are available.

### Glazing

All glazing is per project specifications. Duratherm can accommodate most configurations and make-ups from ⅛" single glazed to a maximum of 1¾" security glass. Refer to the Glass and Glazing Guide in the Introduction of this binder. Clear glass opening: Unit height minus 7 ⅜", unit width minus 7".

### Weather-Stripping

Continuous extruded silicone flap gasket set in rebate around the perimeter of the sash. Engaging the sash locks compresses the weather-strip to ensure a tight seal.

### Sizing

The minimums and maximums shown are intended as guidelines. For applications that exceed these ranges, please contact the factory for assistance.

#### General

WIDTH: Minimum: 18"  
Maximum: 36"

HEIGHT: Minimum: 18"  
Maximum: 84"

To ensure smooth and trouble-free operation over time:

At maximum width of: 36"  
limit height to: 60"

At maximum height of: 84"  
limit width to: 28"

#### Egress

Based on:  
20" clear width  
24" clear height  
5.7 sq ft clear opening

Minimum unit width: 28"  
Minimum unit height: 30"

To meet egress requirements:

At minimum unit width of: 28"  
height must be at least: 48"

At minimum unit height of: 30"  
width must be at least: 36"

#### Frame Depths

Standard frame depth: 6¼"

Minimum frame depth\*: 5½"

Maximum frame depth: 10"

\* Contact factory for frame depths less than 6¼".

