

EUROPEAN OUTSWING CASEMENT

Wood

Standard products use several species of mahogany, with many additional wood species available upon request. All our wood is free of finger joints and is kiln dried before fabrication. All stock is opened and let set for two weeks prior to final fabrication for the highest precision of parts.

Multi-Point Lock System

European multi-point hardware controlled by a single lever. The sash can open from 0° to over 100° for easy cleaning of the glass. Full perimeter locking points combined with triple EPDM gasketing to ensure performance, security, and a weather tight seal.

Handle

Handle works with any 7mm spindle and 43mm attachment spacing. Several standard lever styles are available in both satin nickel and oil-rubbed bronze finishes, or choose from many other manufacturers.

Hinges

Fully-adjustable stainless steel 16mm four post hinge. Several brass hinge covers available in both satin nickel and oil-rubbed bronze finishes.

Optional Hardware

Friction and locking stays are available as well as sash restrictors and concealed alarm contacts.

Screens

Concealed roll-down screens or custom swinging wood screens available. 18 x 16 mesh is standard in charcoal fiberglass and is also available in bronze or stainless steel. Custom interior or exterior screens are available in many configurations, such as electric roll downs and sunscreens or blackouts.

Glazing

All glazing is per project specifications. Hartman Windows & Doors can accommodate most configurations and make-ups from 1/4" single glazed (non-impact) to 1-3/16" laminated/insulated Miami Dade impact glass. Also available with flat or raised wood paneling. Monolithic, laminated, insulated, tinted, and low-e available.

Weather Stripping

Triple EPDM full perimeter gasket system with mitered corners.

Finishing

All products receive three coats for maximum protection - one coat of primer or stain and two top coats of finish. Stained products are supplied fully finished using AzkoNobels premium brand Sikkens Cetol 1 and 23. Sikkens translucent stains provide highest protection while enhancing the natural appearance of wood. On painted products, Sherwin Williams' premium coating (Duration) is used.

Sizing

Full range of custom sizes and shapes available. Please contact Hartman Windows & Doors for assistance.

Miami-Dade County Product Control Approved

Large Missile Impact - TAS 201 and ASTM E1886/1996

Static Load - TAS 202 and ASTM E330, +/- 80psf design pressure

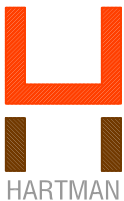
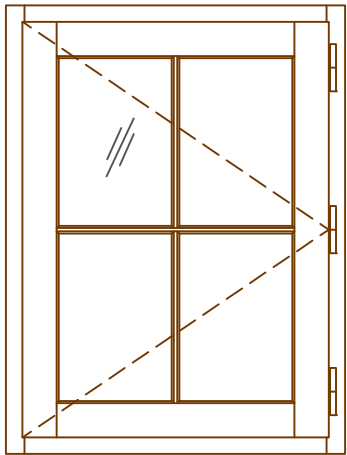
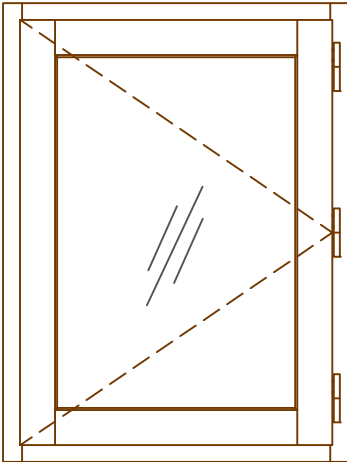
Cyclic Load - ASTM E1886/1996 and TAS 203, +/- 80psf design pressure

Air - ASTM E283 and TAS 202; 1.57 & 6.24psf.; **Measured** : 0.01 cfm, **Allowed**: 0.30 cfm

Water - ASTM E330/TAS 202; Test Pressure 12.5 psf; **Measured & Allowed**: No Entry

NOA No. 08-1119.03

<http://www.miamidade.gov/building/library/productcontrol/noa/08111903.pdf>



Hartman Windows & Doors, LLC.
531 Southern Blvd., West Palm Beach, FL 33405
t 561-296-9600 / f 561-296-9601
www.hartmanwindows.com

Type: European Outswing Casement

View: Elevations / Interior Glazed

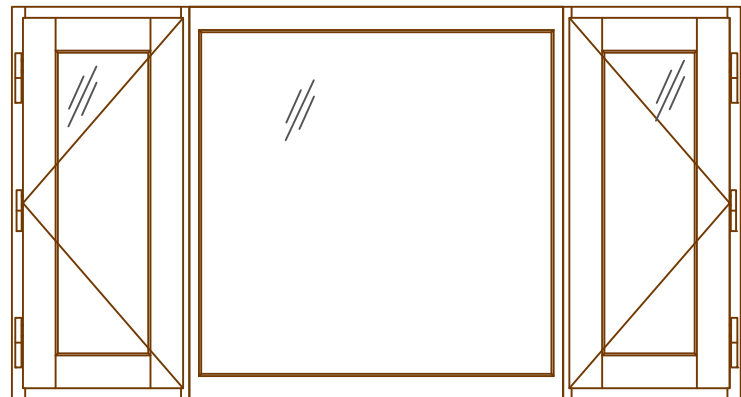
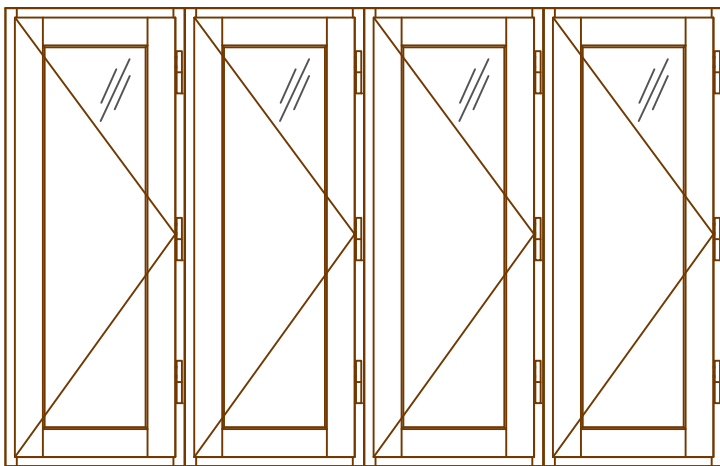
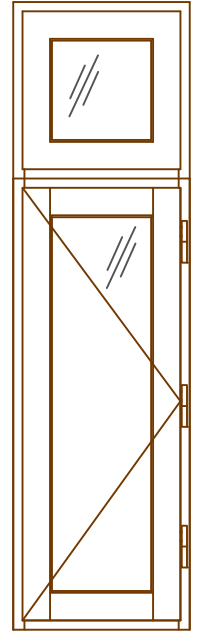
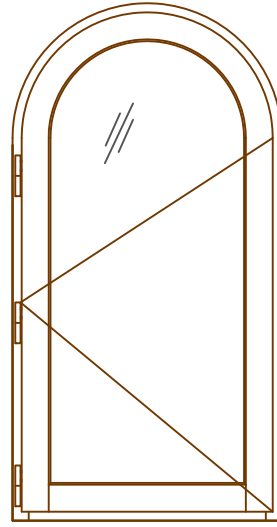
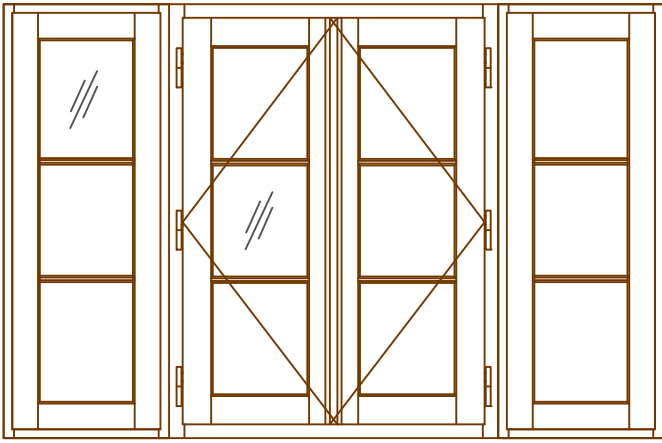
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1 of 1 sheets



Hartman Windows & Doors, LLC.
531 Southern Blvd., West Palm Beach, FL 33405
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Type: European Outswing Window, sample design

View: Elevations

Scale: NTS

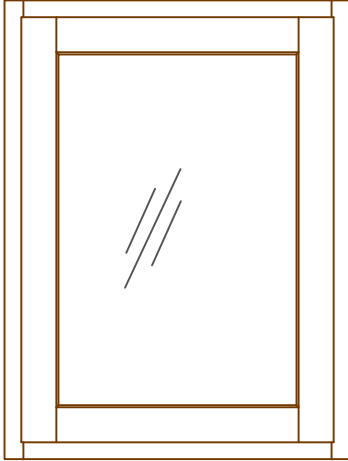
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EUROPEAN OUTSWING FIXED CASEMENT



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Weather Stripping

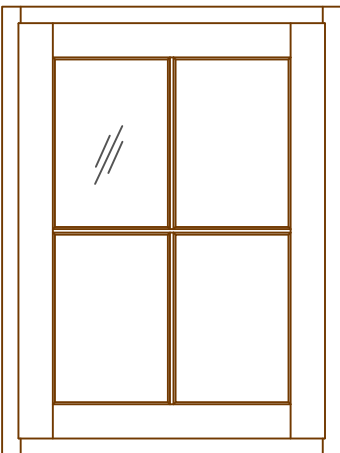
Triple EPDM full perimeter gasket system with mitered corners.

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Static Load - TAS 202 and ASTM E330, +/- 80psf design pressure

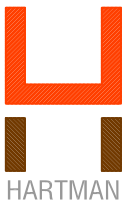
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Type: European Outswing Fixed Casement

View: Elevations / Interior Glazed

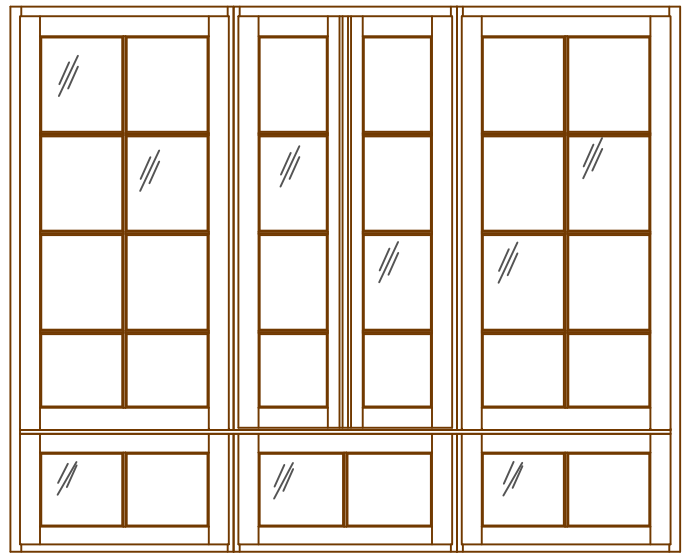
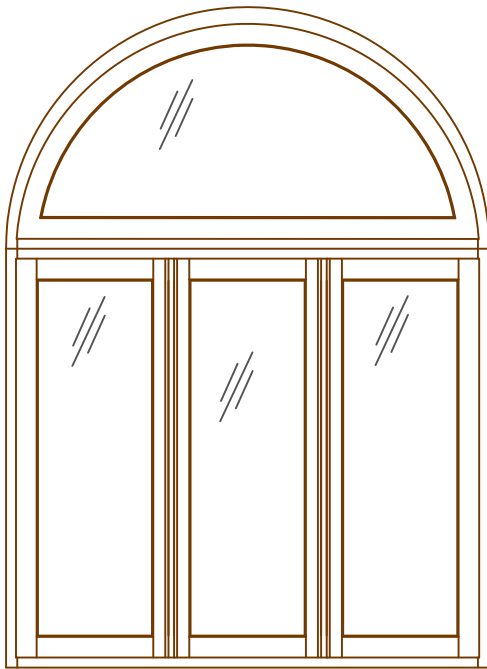
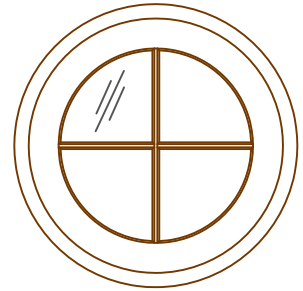
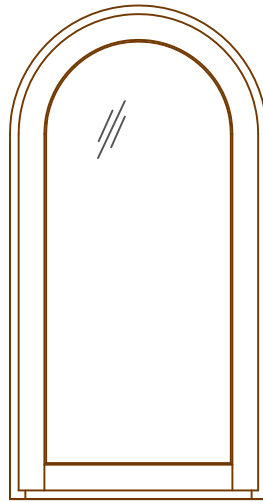
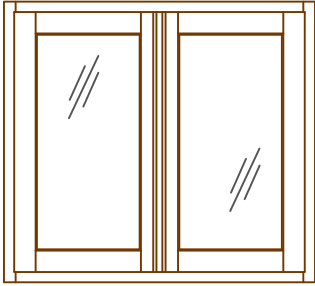
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Type: European Outswing Fixed Casement, sample design
 View: Elevations
 Scale: NTS
 Number: 01-001

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1 of 1 sheets