

Windows and Doors

What worked, what didn't and why.
Changes in the Industry, what's new?

Contractors Breakfast- YHC March 6th

Doors



- General Classifications
 - Swing Doors
 - Hardware
 - Installation
 - Sliding Doors
 - Returning to the Market
 - Double Doors- Appearance





Exterior Doors



- Typical sizes
 - 6'-8" tall by 1-³/₄" thick, size changes
 - Entry door minimum 3'-0" & 2'-8"
 - Insulated
- Sloping sills to shed water
- Installation findings







Exterior Doors



- Swinging doors
 - Hinged
 - Swing into the house
- Sliding doors
 - Vinyl frames
 - Tempered glass
 - Access to deck/patio
 - Common widths
 - 6'-0"
 - 8'-0"
- French doors
 - Mullions and muntins between glass panes
 - One large glass panes
 - Individual, pairs, groups
- Garage doors
 - Overhead
 - One piece or sectional
 - Widths
 - Singles: 8', 9', 10'
 - Doubles: 15', 16', 18'
 - Height generally 7'-0"





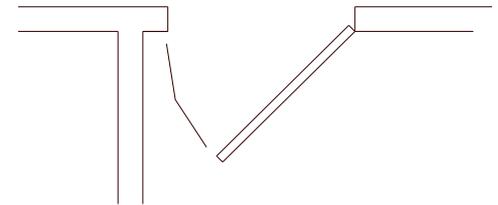




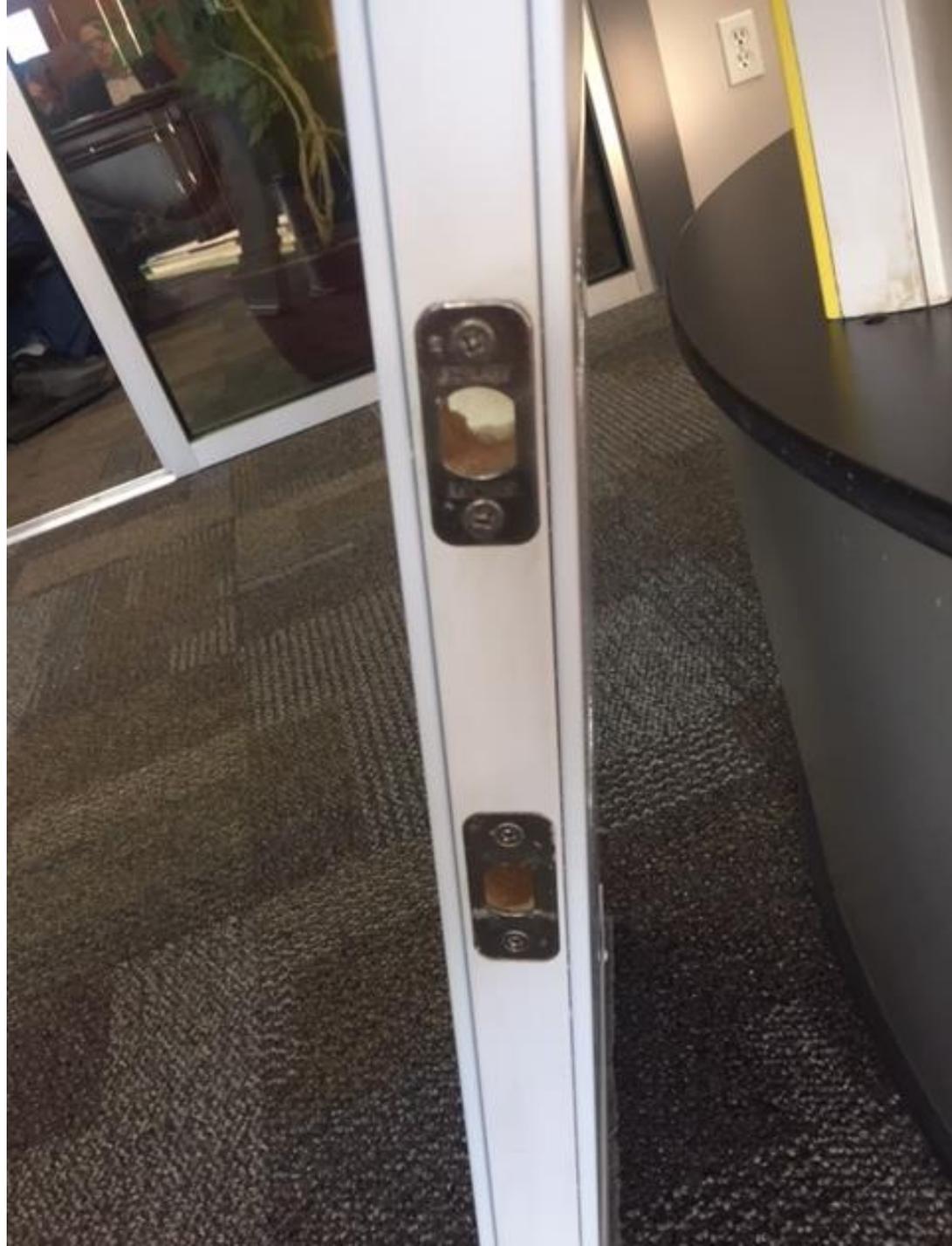
Door Hardware



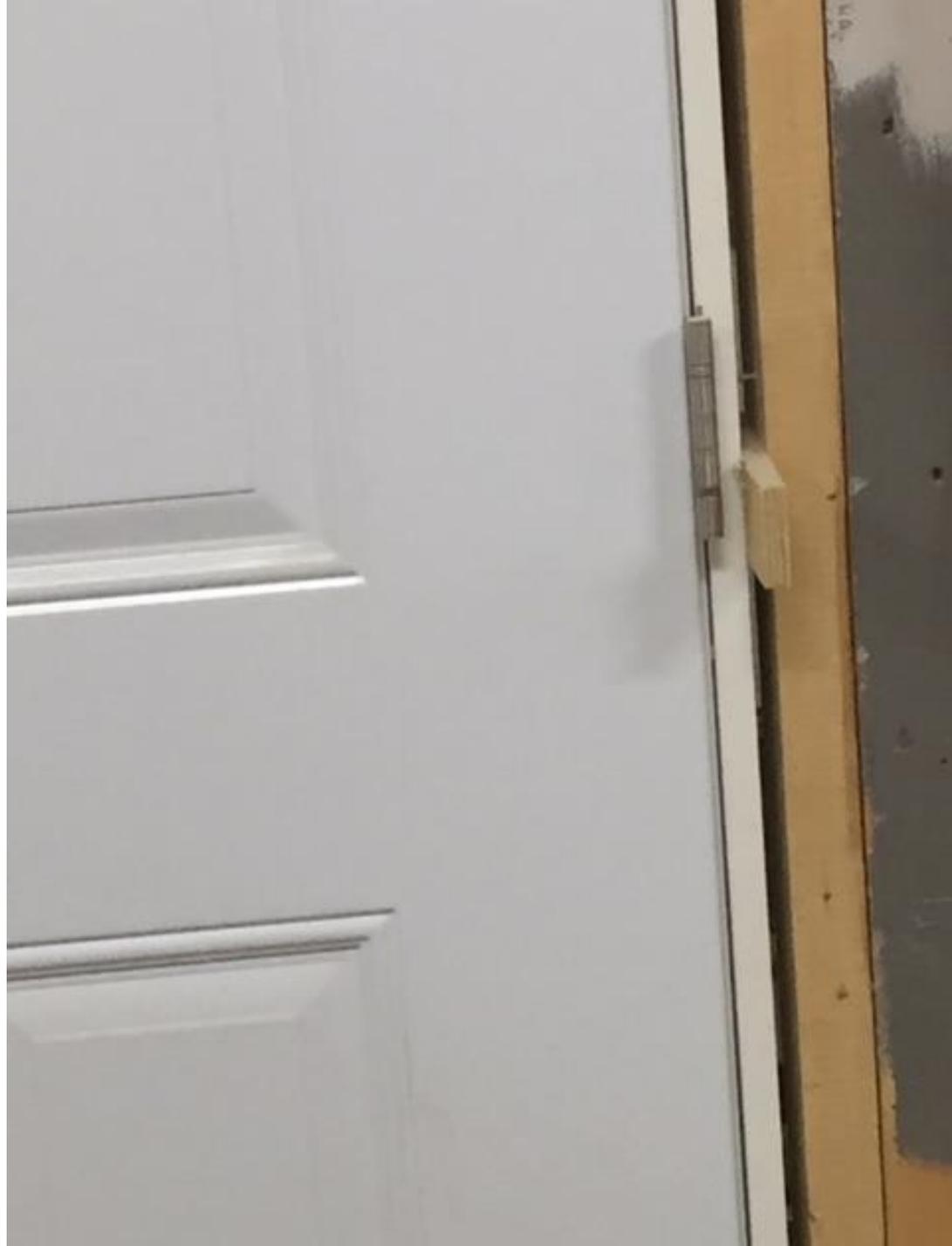
- Lockset and Deadbolt- Mortise made easy
- Changes to the Industry
- Installation Issues-
- Opening prepping- sill prep and gasket
 - Level, square and Plumb
 - To Foam or not?



















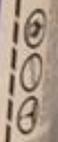
TREMCO.

TREMGLAZE

FLEX LEF

Low Expansion Polyurethane Foam Sealant

TREMCO.



Net Wt. 24.03 oz.
685g / 200mL

● ARE YOU COVERED?

*COVERAGE AS EASY AS 1-2-3.

FIT.

SECURE.

COVERED.

IT'S NOT JUST ANOTHER SILL PAN.

IT'S A REPUTATION-SAVING, INFILTRATION SOLUTION.

When your reputation is on the line with every build, you need coverage from the bottom up. Protect your homes and your name from infiltration damage with the VersaPan™ Sloped Sill Pan from Endura Products.

VERSAPAN™ SLOPED SILL PAN



HOW MUCH IS YOUR REPUTATION WORTH TO YOU?

When your name is on the line with every build, this kind of damage costs more than just a service call to repair it. Cover your assets and protect your entryways from water infiltration damage with the adaptable and easy-to-install VersaPan™ Sloped Sill Pan solution from Endura Products.



MEET VERSAPAN: YOUR ASSET-COVERING SOLUTION

The Endura VersaPan Sloped Sill Pan creates a robust barrier against water infiltration and resulting damage. Installed in the rough opening, the sill pan drains water down and away from the door unit, protecting against water intrusion and associated rot and mold, saving you time and money from costly repairs down the line.

VERSAPAN: YOUR C.Y.A. IN 3 EASY STEPS



1. FIT

Cut and mold VersaPan using the built-in measurement markers to properly fit within rough opening.



2. SECURE

Place the sill pan in the rough opening and secure it into place utilizing screws or staples.

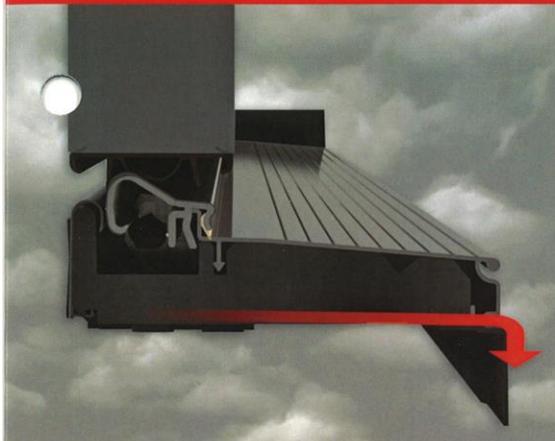


3. COVERED

Fully seal corners with provided flashing tape and rest assured – you're covered.



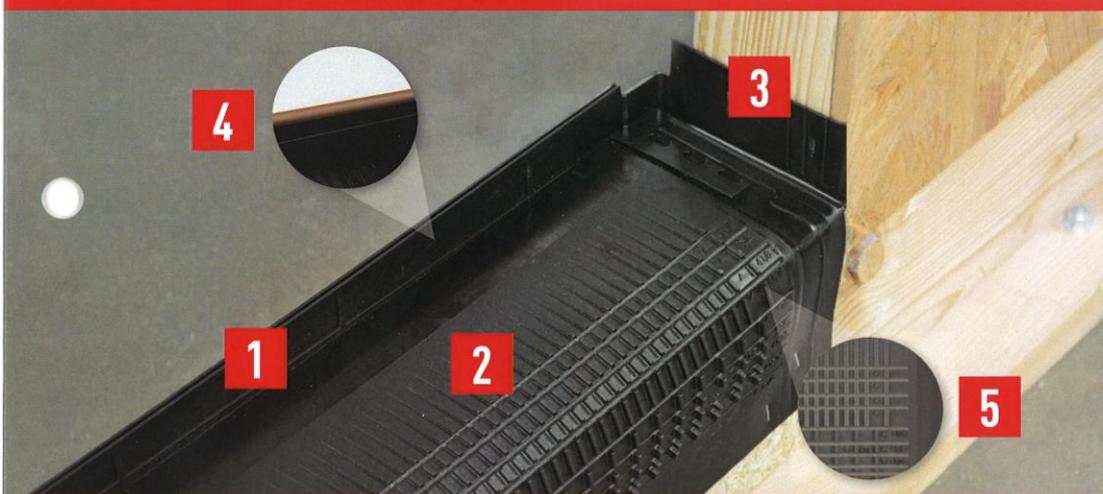
ONE SOLUTION. INFINITE FLEXIBILITY: Gain infinite length adjustability and on-the-spot flexibility with the universal design. Easily combine, size and install the sill pan and fight water infiltration for any desired rough opening.



THE VERSAPAN™ ADVANTAGE

SLOPED DESIGN: LASTING PROTECTION

VersaPan's Sloped Design and built-in ridges channel water down, out and away from the opening, delivering lasting draining power and protection against costly damage to your wallet and reputation



VERSAPAN SLOPED SILL PAN: HOW IT WORKS

- FIGHTS INFILTRATION:** VersaPan's **Back Wall (1)** deflects wind-blown water while the unique **Sloped Design (2)** drains water down and away from the opening. VersaPan also features **Side Walls (3)** which fit securely against the edges of the opening, sealing out water penetration.
- IMPROVE AESTHETICS:** While most sill pans do not support decorative nosing, VersaPan accepts the **Z-Series Nosing (4)** for a cohesive, polished appearance for your door system.
- BUILT-IN MEASUREMENT AIDS:** With **Built-in Measurement Markers (5)**, easily install VersaPan based on the length and width of each unique opening.

Door Certification



■ NAFS

- Certification coming or way
- Sill water drainage big deal
- Thermal Cupping Issue



■ Air, Wind, Water

- Security
- Constant use year round
- Metal vs Fiberglass



Fiberglass Victoria
Mahogany Stain Oak Stained
36" x 79"

Hardware Courtesy of
Locksmith Services







More Doors



- Coated/ Painted doors

- Slabs and Jambs

- Temp construction doors?

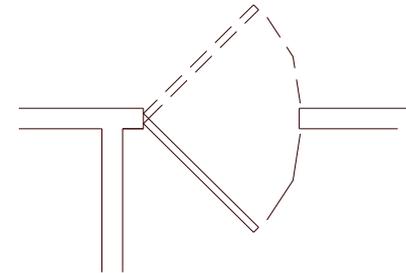
- Door Lites , popular



- Vinyl door Jambs, Wood Door jambs

- Outswing or Inswing

- Doors last how long?











Windows



■ Purpose

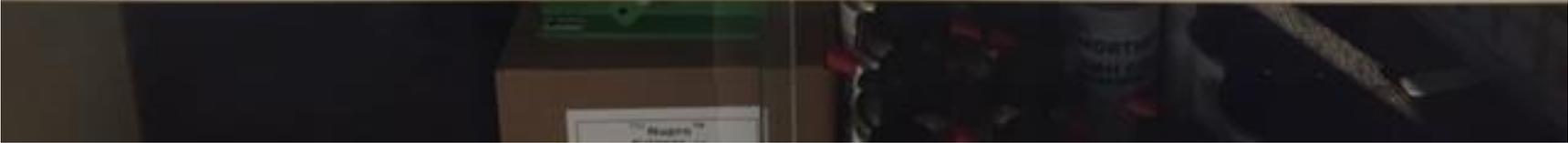
- Admits light, allows egress
- Provides fresh air and ventilation
- Adds detail, balance, interest
- Visually enlarges interior space



Thank you, your generous support helped
make this dream come true



This dream of affordable homeownership came true

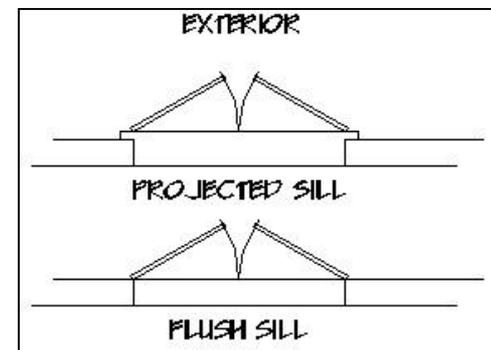
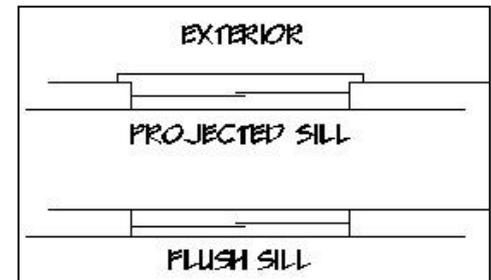
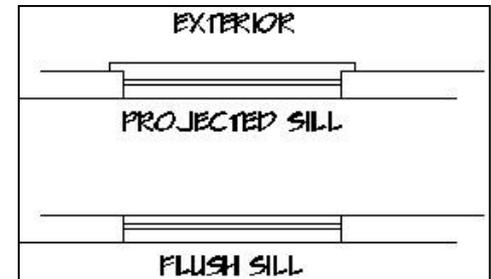




Windows



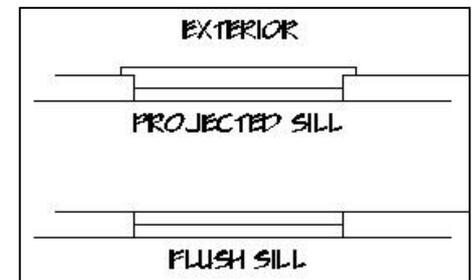
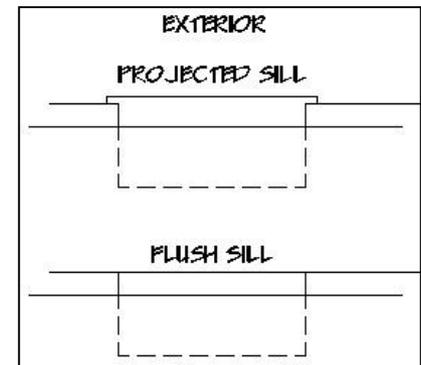
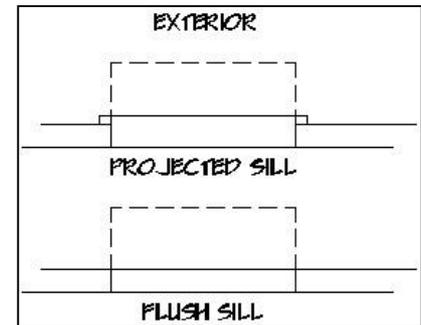
- Double-hung
 - Two sashes slide up and down
 - Most commonly used
- Horizontal sliding/gliding
 - Two or more sashes slide horizontally
 - Operates on a track
- Casement
 - Hinged sashes; outward swing



Window Types



- Awning
 - Sash hinged on top; swings outward
 - Allows open unit during rain
- Hopper
 - Hinged sash on bottom; swings inward
 - Allows for unusual shapes
- Fixed
 - Do not open
 - Combined with other windows



Window Types



■ Bay and Bow

- Fixed or casement
- Project from structure
- Bay windows offer traditional style
 - Sides drawn @ 45° or 30°
 - Depth between 18" and 24"
 - Roof structure
- Bow windows are in a circular pattern



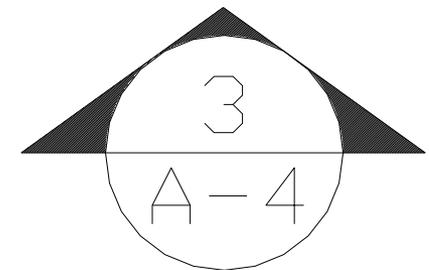
■ Skylights

- Built into roof
- Admit light

Windows and Glazing



- Energy Star compliance- Prepare
- NRC A-440 Structural
- IGMA Insulating Unit cert.
- Passive Certification- Are we ready?





What is Passive House



- Passive House is a voluntary non-regulated or enforced standard for energy efficiency in a building, which reduces the building's ecological footprint. It results in ultra-low energy buildings that require little energy for space heating or cooling.

Passive Certification & Windows



- A passive certified window means the window frame has met the required insulating values determined by the Passive House Institute.
- A passive certification only certifies the window frames insulative performance values & no other component of the manufactured window.

Passive House Climate Zones



- Currently there are 5 Passive House Climate Zone levels.
 - Each Zone requires a lower U-Window Value.
1. Artic = 0.40 W/m²K (Whitehorse, YT & Yellowknife, NWT)
 2. Cold = 0.60 W/m²K (Calgary, AB, Fort St. John, BC)
 3. Cool, temperate = 0.80 W/m²K (Vancouver, BC)
 4. Warm = 1.00 W/m²K (No Canadian Cities)
 5. Warm, temperate = 1.20 W/m²K (No Canadian Cities)

Arctic - Climate Zone



(Whitehorse, YT & Yellowknife, NWT)

- Currently there are no window Manufacturers in the world with frames certified to the Arctic UW-Value 0.40 W/m²K level.
- Level is currently NOT displayed on Passive House Institutes website.

Cold - Climate Zone



(Calgary, AB, Fort St. John, BC)

- Currently there are no **PVC** window frames certified to the Cold UW-Value 0.60 W/m²K level, only Timber, Timber / Aluminum combination & Timber / Fiberglass combination, insulated frames.
- NO Canadian Manufacturers certified to this level.

Cool, Temperate - Climate Zone



(Vancouver, BC, & Whistler, BC)

- Innotech (PVC), Euroline (PVC), Westeck (PVC, Timber, Timber / Aluminium combination) & Cascadia (Fiberglass) are all Canadian Manufacturers with insulated frame certified to this level.
- Northerm's PVC window frames insulated with Backer-Rod achieves the insulative values required to meet the Cool, Temperate level certification.

Door/Window



■ Changes in Basic Windows

- Heavy Windows- Issues
- Exterior backset accessories
- Jamb liners
- Screens
- Multipoint locks- 42 inch rule
- Exterior coated LowE products
- Gas Filling



Door/Window Certification



2018-Codes & Standards updates by JFK

