

# Impact Windows

by StormBuster™

Impact Resistant Windows



## Peace of Mind

Protect your family and your home  
against heavy storms and intruders with  
**Impact Windows** by StormBuster™.



**BONNEVILLE™**  
WINDOWS AND DOORS

It all begins with [www.bonnevillewd.com](http://www.bonnevillewd.com)

BROKEN WINDOWS DUE TO FLYING OBJECTS ARE THE MAIN CAUSE OF HURRICANE DAMAGE. ONCE THE WIND ENTERS YOUR HOUSE, IT CAUSES AN INCREASE IN PRESSURE THAT COULD BLOW OFF YOUR ROOF.

**IMPACT WINDOWS** BY STORMBUSTER™ ARE SPECIFICALLY DESIGNED TO WITHSTAND DEVASTATING WINDS AND AIRBORNE DEBRIS FROM HURRICANES AND TROPICAL STORMS.

## Impact Glass by StormBuster™



- (A) 3 mm Clear Glass
- (B) PVB Interlayers .090"



# WOOD CASEMENT WINDOW



### FEATURES

#### FRAME AND SASH

- Pine frame and sash
- Frame thickness: 1 3/16" (30 mm)
- Frame depth: 4 9/16" (116 mm) or 5 13/16" (147 mm)
- Sash thickness: 1 3/4" (45 mm)
- The corners are double mortise and tenon jointed
- Exterior glass stop
- Double weatherstripping

#### HARDWARE

- Double arm action E-gard finish
- Folding handle
- Encore multi-point lock

#### GLAZING

- Double sealed and laminated glass unit overall thickness 3/4" (19 mm)
- High efficiency spacer bar

### OPTIONS

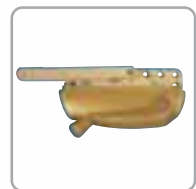
- Choice of specie: Douglas fir (solid)
- Frame and sash clad extruded aluminum baked enamel finish
- Stainless steel hardware
- Choice of colors (See the Bonneville chart)
- Choice of casings available (908 & 3 1/2" flat casing)
- Choice of grilles
- Choice of glazing
  - Low-E-argon gas
  - Bronze, grey, obscure (frosted)
  - Tempered (security glass)
  - Others available on request



EXTRUDED ALUMINUM  
CLADDING



DUAL ARM OPERATOR  
WITH E-GARD COATING



RETRACTABLE HANDLE

## IMPACT WINDOWS BY STORMBUSTER™ MEET TEST STANDARDS

Each test unit was subjected to two impacts of a 2x4 stud, 8-feet long and weighing 9 pounds, fired by an air cannon at 50 feet per second. Afterwards, the impacted units were subjected to 4500 positive and 4500 negative wind loads cycles, simulating the pulsing of hurricane winds.

### First Impact Test with Wood Casement



# PVC CASEMENT WINDOW

# Impact Windows

by StormBuster™

## ADVANTAGES

- Impact-resistant windows
- 24-hour wind and airborne debris protection, even if your not at home
- Protect your family and your home against intruders
- Meets Energy Star requirements
- High UV protection and noise reduction
- Save money on your insurance premium
- Increase the resale value of your home



### FEATURES

#### FRAME AND SASH

- White extruded PVC
- Frame depth: 3 1/4" (83 mm) or 4 5/8" (118 mm)
- Fusion welding on all corners
- Interior glass stop
- Double weatherstrips

#### HARDWARE

- Double arm action E-gard finish
- Folding handle
- Multi-point locking system

#### GLAZING

- Double sealed and laminated glass unit overall thickness 7/8" (22 mm)
- High efficiency spacer bar

### OPTIONS

- Exterior moulding
- Choice of grilles
- Stainless steel hardware
- Choice of glazing
  - Low-E-argon gas
  - Bronze, grey, obscure (frosted)
  - Tempered (security glass)
  - Others available on request



ENERGY-CONSERVING  
MULTIPLE WEATHERSTRIPS



CASEMENT WINDOWS FEATURE  
MULTI-POINT LOCKS

### IMPACT TEST

AS PER ASTM E1886, E1996 AND TAS 201/203

#### WOOD

|                | MAXIMUM DIMENSION | LARGE MISSILE IMPACT | DESIGN PRESSURE | WIND ZONE |
|----------------|-------------------|----------------------|-----------------|-----------|
| Casement       | 36 X 72           | Yes                  | +50/-50         | 4         |
| Fixed Casement | 36 X 72           | Yes                  | +50/-50         | 4         |

### STRUCTURAL TEST

AS PER AAMA / WDMA / CSA / 01 / I.S.2 / A440-05 AND TAS 202

|                | WATER RESISTANCE (PSF) | AIR INFILTRATION (CFM/SQFT) | STRUCTURAL RESISTANCE (PSF) | FORCED ENTRY RESISTANCE |
|----------------|------------------------|-----------------------------|-----------------------------|-------------------------|
| Casement       | 9                      | < 0,01                      | 90                          | Yes                     |
| Fixed Casement | 9                      | < 0,01                      | 90                          | Yes                     |

### IMPACT TEST

AS PER ASTM E1886, E1996 AND TAS 201/203

#### PVC

|                | MAXIMUM DIMENSION | LARGE MISSILE IMPACT | DESIGN PRESSURE | WIND ZONE |
|----------------|-------------------|----------------------|-----------------|-----------|
| Casement       | 36 X 72           | Yes                  | +50/-50         | 4         |
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|----------------|------------------------|-----------------------------|-----------------------------|-------------------------|
| Casement       | 9                      | < 0,01                      | 90                          | Yes                     |
| Fixed Casement | 9                      | < 0,01                      | 90                          | Yes                     |

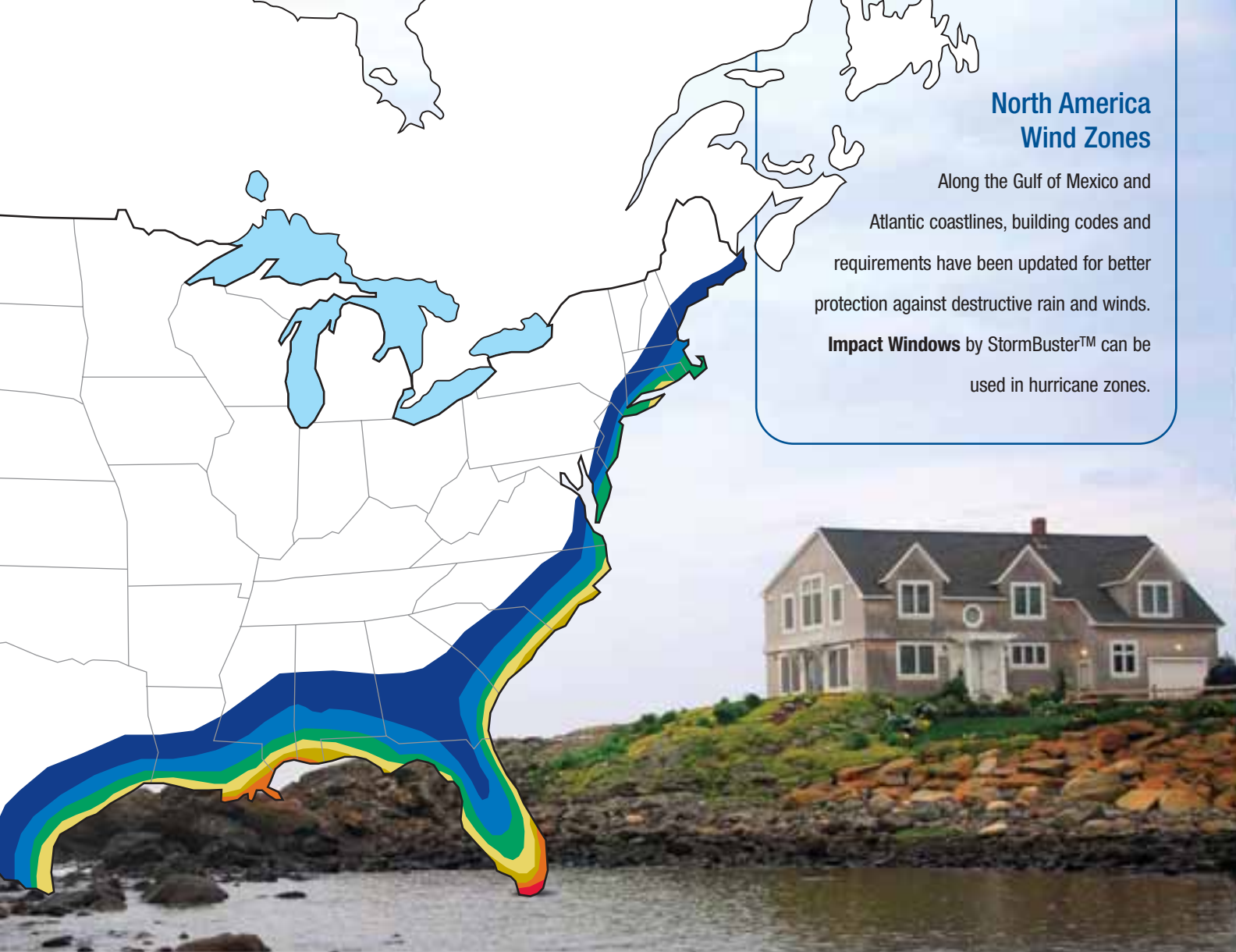
### Second Impact Test with PVC Casement



## North America Wind Zones

Along the Gulf of Mexico and Atlantic coastlines, building codes and requirements have been updated for better protection against destructive rain and winds.

**Impact Windows** by StormBuster™ can be used in hurricane zones.



90 MPH  
(145 km/h)



90-100 MPH  
(145-161 km/h)



100-110 MPH  
(161-177 km/h)



110-120 MPH  
(177-193 km/h)



120-130 MPH  
(193-209 km/h)



130-140 MPH  
(209-225 km/h)



140-150 MPH  
(225-241 km/h)



150-160 MPH  
(241-257 km/h)



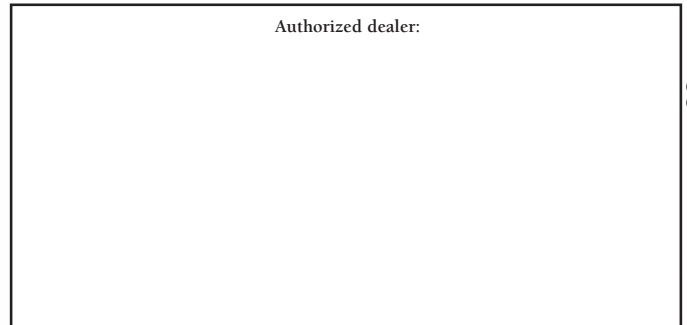
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CSA  
A440



Authorized dealer:



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