





Kapolei Judiciary Complex, Honolulu, HI Architect: Architects Hawaii

- IP-1900 2 ¼" x 7" Curtin wall system
- IP362 Medium Stile HD Doors offset
- TC-470 System 2 ½" x 4 1/2
- Custom Top Hung 2820 Pass through
Sliders at Counters on interior

# Count On The Strength & Stability Of Arcadia Storm Impact Products

It's an alarming fact In today's world. Hurricanes, tropical storms and intense weather seem to be happening on a regular basis. In North America, these meteorological events tend to occur in certain hurricane-prone regions such as the US Gulf Coast, Florida, the Carolinas, the Caribbean, and Hawaii.

One of the greatest threats to both people and property occurs when wind borne debris, water and/or air pressure penetrate a building's exterior. To help safeguard their communities, state and local building codes mandate that impact resistant building products be used in all wind borne debris areas. Arcadia has provided quality building materials for over eight decades. The company now offers an extensive line of storm impact products to fit just about every need.

With a complete line
of hurricane-strength
glass & aluminum
products, Arcadia is your
shelter from the storm.

#### Craigside 15 Building, Honolulu, HI Architect: Obayashi Design Group

- IP-1800 2 ¼" x 7" Curtain Wall System 9/16" Firs 1-6
- IP-2550 2 ½" x 5" Screw Spline System
Inside set for 9/16" Comp Channels Firs 1-6
- IP-MS362 Medium Stile Offset Doors
- TL-450 1 ¾" x 4 ½" Screw Spline
Inside set for ¼" Glazing Comp Channels
- ULT-5500 Impact sliders 9/16" Glazing
- ULT-5000 sliders ¼" Glazing
- IP200 series Awnings stacked 9/16" Glazing
- 200 series Awnings ¼" Glazing



Arcadia's Proven Storm Impact Products Are A Result of its 80 Years of Innovation.

## **United States Regions Storm Data**

- A total of 60 hurricanes & tropical storms have hit the U.S since 1970– 2010 an average of 15 per decade.
- Since the year 1851, two hundred eighty four hurricanes have struck on the mainland United States.
- In 2005 Hurricane Katrina struck SE Florida, Louisiana, and Mississippi killing 1200+ people and causing \$108 billion in damage.

Source: Tropical Prediction Center, National Hurricane Center

## **Wind-Borne Debris Regions**

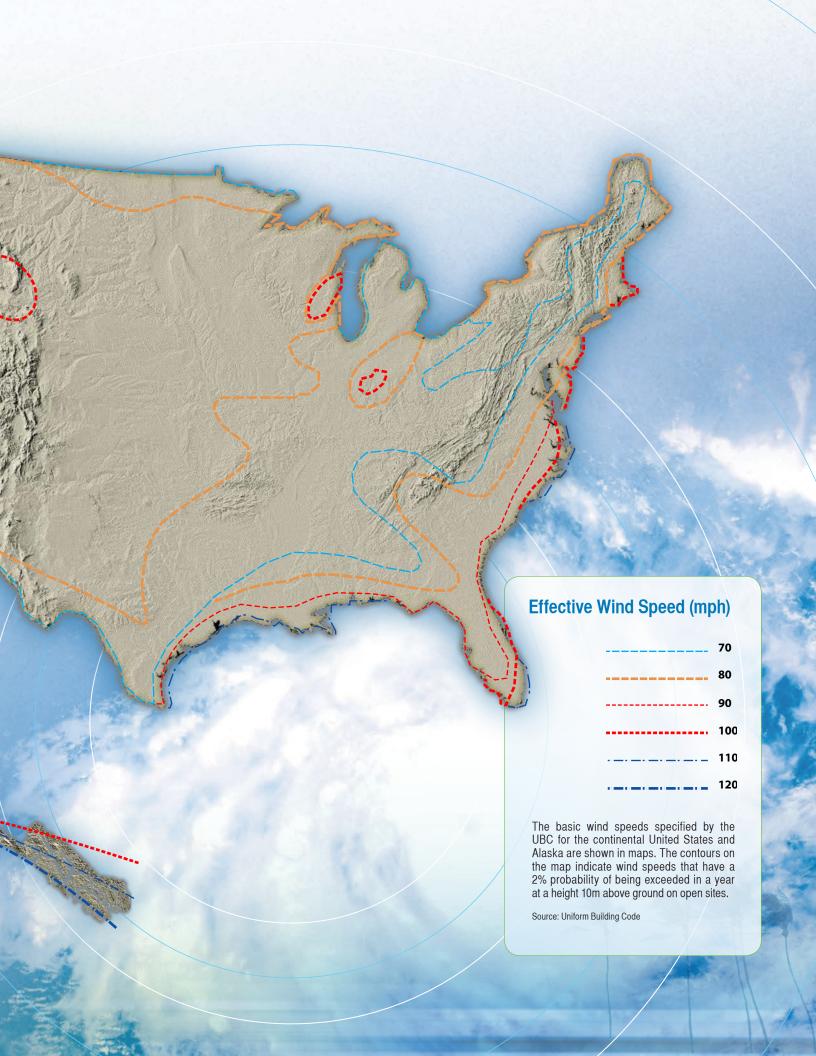
are areas within hurricane-prone regions located:

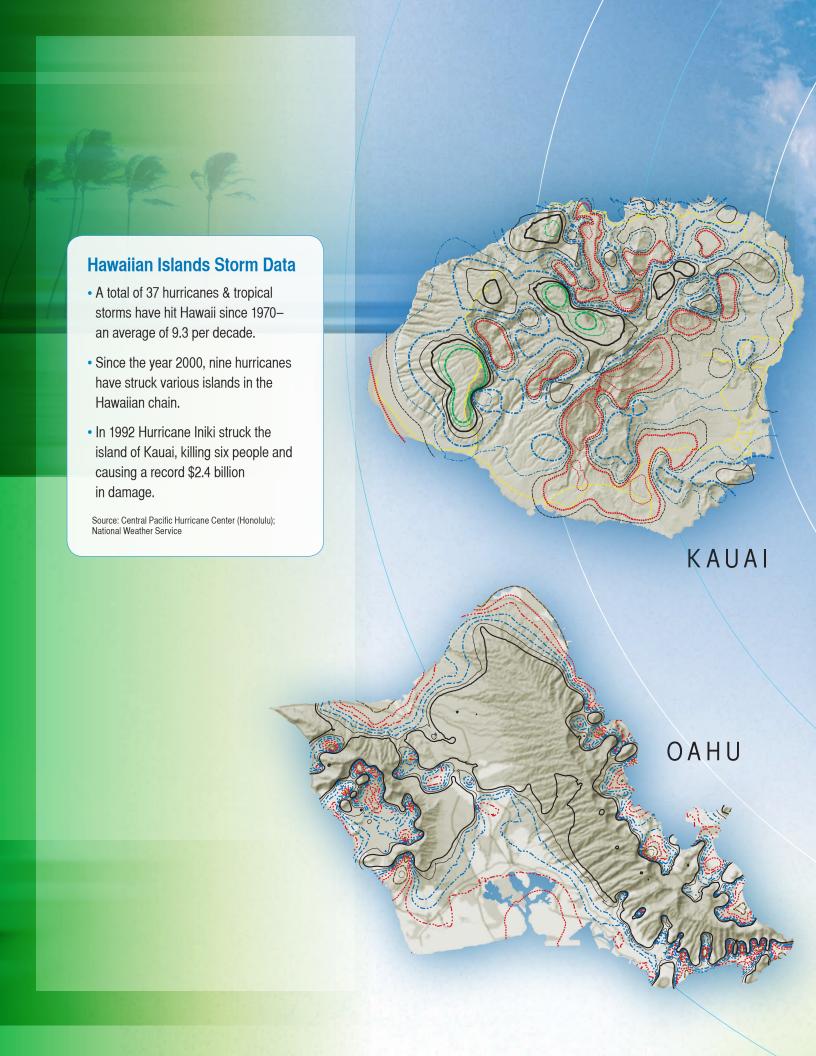
- Within one mile of the coastal mean high water line, where the basic wind speed is equal to or greater than 110 mph.
- 2. In areas where the basic wind speed is equal to or greater than 120 mph.

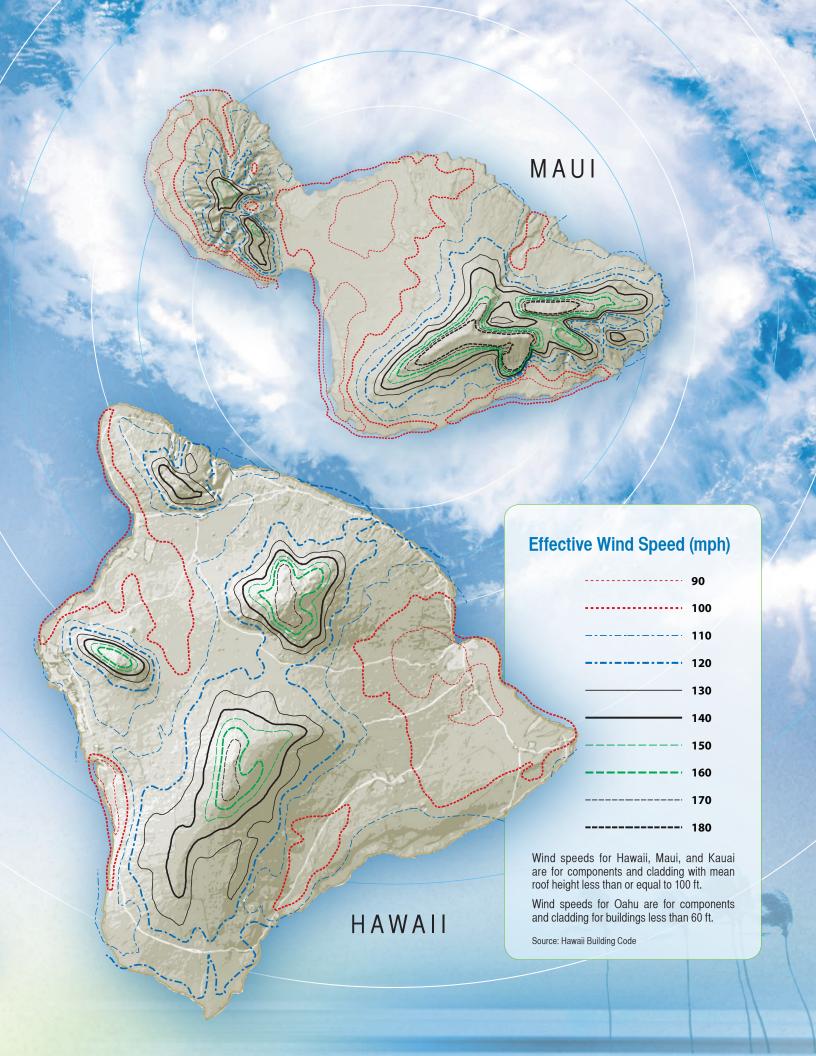
Hurricanes can cause catastrophic damage to coastlines and several hundred miles inland.

Source: FEMA





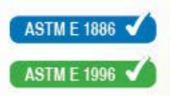




## Impact Products & Systems Testing

To ensure the highest standard of material quality and integrity, all Arcadia hurricaneresistant products undergo extensive large missile impact and cycle testing per ASTM E 1886 and ASTM E 1996 specifications. The testing simulates large and small object debris, severe wind speeds as well as extreme air pressure scenarios.

Across its multiple products & systems categories, Arcadia takes pride in being a solutions provider to fulfill the growing architectural requirements for wind borne debris areas.





# Storefront & Window Wall systems

## IP2550

- · Overall dimensions 2 1/2" x 5"
- · Non-thermally broken design
- Screw spline assembly
- · Structural or dry glazed
- Designed to accommodate 9/16" laminated impact glass

### IP2551

- Overall dimensions 2 1/2" x 5"
- · Non-thermally broken design
- Screw spline assembly
- · Structural or dry glazed
- Designed to accommodate 1 5/16\* insulated laminated impact glass

## IPAFG451

- · Overall dimensions 2 1/2" x 5"
- Non-thermally broken design
- · Screw spline assembly
- Structural or dry glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass

## IPTC470

- Overall dimensions 2 1/4" x 4 1/2"
- · Non-thermally broken design
- Screw spline assembly
- · Structural or dry glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass



## Pressure Bar & Curtain Wall Systems

## IP1800

- · Overall dimensions 2 1/4" x 7"
- Thermally improved design
- · Shear block assembly
- Dry glazed
- Designed to accommodate 9/16" laminated impact glass

### IP1900

- Overall dimensions 2 1/4" x 7"
- · Thermally improved design
- Shear block assembly
- · Dry glazed
- Designed to accommodate 1 5/16" insulated laminated impact glass



## Swing Doors

## IPMS362

- · Medium stile entrance door
- Non-thermally broken design
- Structural glazed
- Designed to accommodate 9/16\* laminated impact glass

#### IPWS512

- Heavy wide stile entrance door
- Non-thermally broken design
- · Structural glazed
- Designed to accommodate 9/16\* laminated impact glass -

### IPARC8250

- · Terrace door
- Iso strut design
- · Wet glazed
- Designed to accommodate 9/16" impact glass

## Multi Slide Door

## IP5520

- · Multi slide design sliding glass door
- · Thermally Broken / Iso strut design
- · Recessed sill
- · Dry glazed
- Designed to accommodate 9/16" & 1 1/16" insulated
- Laminated impact glass



## Sliding Doors

## IP2820

- Multi slide design
- Recessed sill
- Wet glazed
- Designed to accommodate 9/16" & 1" insulated laminated impact glass

### IP5000

- Sliding glass door 8' max. ht.
- Thermally broken design
- Dry glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass

## IP5500

- Sliding glass door 10' max. ht.
- Thermally broken design
- Dry glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass

## Fixed - Projecting Windows

## **IPT200**

- · Inside or outside glazed
- Thermally broke design
- Structural glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass

### IP200

- Inside or outside glazed
- Non-thermally broken design
- Structural glazed
- Designed to accommodate 1 1/16" insulated laminated impact glass

## IPCV200

- Non-thermally broken design
- Structural glazed
- Designed to accommodate 1 1/16\* insulated laminated impact glass

## **Hung - Sliding Windows**

## IP500

- Horizontal sliding window
- Thermally broke design
- Dry glazed
- Designed to accommodate 1" insulated laminated impact glass

### IPMK1

- Horizontal sliding window
- Non-thermally broken design
- · Structural glazed
- Designed to accommodate 9/16" laminated impact glass

## IP52

- · Double hung window
- Thermally broken design
- Structural glazed
- Designed to accommodate 9/16" laminated impact glass

Complete test reports are available for each Arcadia product. Contact your nearest Arcadia representative for product availability and complete application information. Or visit:

www.arcadiainc.com

Hawaii Building Code http://hawaii.gov/dags/bcc/comments

International Code Council www.iccsafe.org

**ASTM** International www.astm.org

National Hurricane Center www.nhc.noaa.gov

