



Sprung Structures

HURRICANE RATED

The Building Solution for Islands around the Globe

Sprung Structures is recognized as the world's leader in the manufacture and supply of engineered tension membrane structures.

Designed to meet design wind speeds for Hurricane and Typhoon Zones.

This innovative building alternative utilizes architectural membrane panels placed under high tension with a non-corroding aluminum substructure.



Efate Island, Vanuatu, Melanesia
Code: 125 mph AS/NZS 1170.2
Warwick Le Lagon Resort & Spa
Special Event Facility

When 2015 Cyclone Pam (cat 5) hit Vanuatu with winds of up to 250 kph (155 mph), the Sprung structure was used as an emergency shelter and sustained only minor exterior damage.



St. Thomas, US Virgin Islands
Code: 175 mph as per IBC 2018
Virgin Islands Department Education

After the devastating Hurricane Irma and Maria of 2017, many schools were decimated. Seven gymnasiums and two kitchens were re-built using Sprung structures.



Island of Montserrat, Caribbean
Code: 172 mph as per IBC 2012
Montserrat Sports Arena

This sports arena contains a small office space, bathrooms and changing rooms.



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American Samoa

Code: 125 mph wind loading as per IBC 2006

American Samoa Education

Twelve Sprung structures to replace schools damaged by 2009 Tsunami.



St. Croix, Virgin Islands

Code: 175 mph as per IBC 2015

Limetree Bay Refinery

Air conditioned lunch and safety room at refinery.



Ascension Island

Code: 90 mph as per IBC 2009

Three structures used for warehousing and maintenance facilities. The island is extremely remote with steady heavy winds and hosts a very caustic environment. Steel erodes here in short order.



Sakhalin Island

Code: 158 km/hr (98 mph=44 m/sec)
SNIP 2.01.07-85 Zones V to VII
125 mph to 150 mph

Twenty one structures - Maintenance facilities, hangars, entertainment facilities, recreation complexes and oil and gas facilities.



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Oahu, Hawaii

Code: 105 mph exposure D
as per IBC 2009

Leeward Coast Homeless Shelter

Housing and transitional programs for approximately 275 people.



Barbuda, Antigua

Code: 163 mph as per IBC 2012

Samaritan's Purse Logistics Center

Logistics and donation center for Samaritan's Purse in helping in the rebuild of the island after hurricanes Irma and Maria



Ocho Rios, Jamaica

Code: 165 mph as per IBC 2012

Port of Ocho Rios

Passenger processing facility at a busy port.



Curacao, Caribbean

Code: 168 mph as per IBC 2012

Port of Curacao

Sunshades used at the Port of Curacao.



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Guam

**Code: 170 mph as per IBC 2009
INS Detention Facilities**

*Originally purchased in 1999, survived
Super Typhoon Pongsona in 2002.*



Port-Au-Prince, Haiti

**Code: 175 mph as per IBC 2012
Haiti Administration Offices**

Administration offices after the 2010 earthquake.



St. Croix, US Virgin Islands

**Code: 175mph as per IBC 2018
Virgin Islands Department Education**

*After the devastating Hurricane Irma and Maria
of 2017 many schools were decimated. Seven
gymnasiums and two kitchens were re-built using
Sprung structures.*



Lanai, Hawaii

**Code: 105 mph exposure D
as per IBC 2009**

*Millwork center used during the renovation
of the islands only hotel.*



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Aleutian Islands, Alaska

Code: 130 mph as per IBC 2009

Eareckson Air Station

Formerly Shemya Air Force Base

This structure is on an United States Air Force military airport located on the island of Shemya, in the Alaskan Aleutian Islands.



Honolulu, Hawaii

Code: 105 mph exposure D as per IBC 2009

Storage for vehicles and heavy cargo for the US Army and commercial interests.



Oahu, Hawaii

Code: 145 mph as per UFC-301-01

Schofield Barracks

Army installation and home base of the 25th Infantry Division. The base occupies over 17,000 acres and houses over 16,000.



Jeju Island, South Korea

Code: 120 mph (Korean Building Law) Jeju-do

The 2001 World Festival for Island Cultures was held on Jeju island, Korea's largest island. Six Sprung pavilions provided 70,000 square feet of exhibition space.



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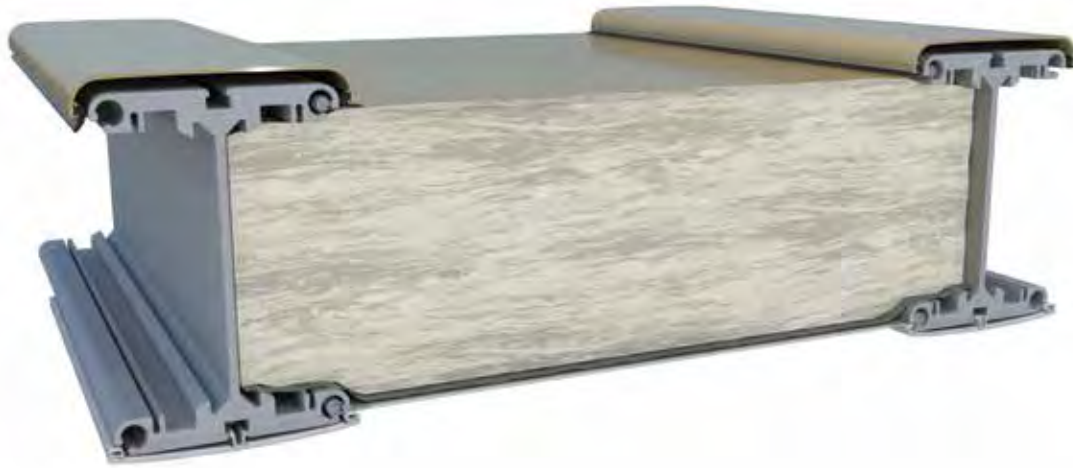
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Exceptionally well suited for island locations

- Non corroding aluminum substructure
- High performance opaque architectural membrane designed to provide maximum UV protection
- Energy efficient fiberglass insulation
- Compact design lowers shipping costs
- Limited foundation requirements
- Can be erected in a fraction of the time compared to conventional construction
- Clearspan Relocatable Design, ideal for multipurpose applications
- Reliability: Engineered to exceed design wind loads for hurricane and typhoon zones



Advantages of Sprung's Aluminum Substructure

- **Rustproof**
Unlike steel and wood, aluminum performs extremely well in humid conditions.
- **Lightweight**
Aluminum is about 1/3 the weight of steel.
- **Strong**
Aluminum meets or exceeds building codes for strength.
- **Versatile**
Aluminum can be extruded into virtually any shape. Connections are butted, not welded.
- **Economical**
The ratio of strength-to-weight equals more value for less weight.
- **Long-lasting**
With an indefinite life expectancy, aluminum actually gets stronger with age.
- **Environmentally Friendly**
Aluminum is 100% recyclable, with no generational loss of quality.

