Cargo-Structure

Sustainable Architecture

Shane Pulak-Senior Project Engineer NuEnergy Technologies

Presentation Content

What is Cargo-Structure?

Advantages of Cargo-Structure

Identifying Cargo-Structure uses?

Cost of Cargo-Structure

Cargo-Structure Pre-fab

Biobased Insulation

Other Features & Options

L.E.E.D and Cargo-Structure

What is Cargo-Structure?

Using ISO shipping containers for the building and construction of various designs including but not limited to:





Advantages of Cargo-Structure

No limit to design

Containers already provide primary floors, walls, & roofs

100's of thousands of ISO Containers available

Promoting Recycling and Green Building design

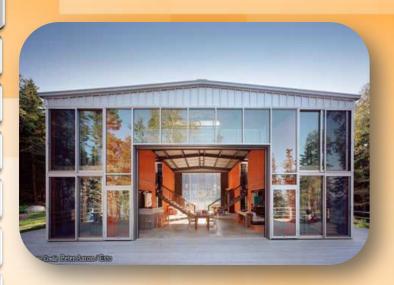
Will qualify for L.E.E.D points

Fast to build

40% less costly than traditional building practices

Very strong – Can resist most weather extremes

Resistant to fire, flood, mold



Cargo-Structure Uses

Residential homes - Urban/Rural/Cottage

Low income housing

Retirement homes

Student Dorms

Low Cost Urban Office Space

Pop-up Restaurants or retail outlets for outdoor festival events.





Cost of Cargo-Structure

Cost vary depending on design and size but are typically 40%+ less expensive compared to traditional stick building/dry wall houses

Finished Cargo homes cost \$55-85 per square foot

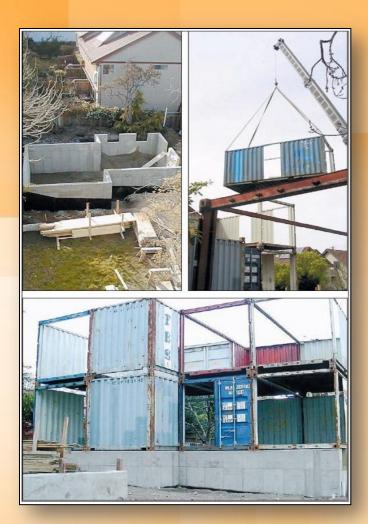
Generally de-commissioned Sea Containers cost \$1200-1500 per 40ft container (320sqft)

Typical home uses 6-8 containers \$8,500-10,000

Typical 2000sqft home finished design \$140,000

Cargo-Structure PreFab

Start with Foundation (I.C.F's are best) Prepare and Prefab Containersmetal work Using oxy/ace or Plasma cutters cut walls, doors, windows, vents Using Crane place containers on foundation Weld or bolt containers in place



Modifying ISO Containers









Construction Schedule



Bio-Based Insulation

BioBased Insulation naturally based - soy

Will seal a structure's thermal envelope

Will save up to 50% on heating and cooling when compared to fiberglass insulation

Biobased insulations will earn L.E.E.D points

5 ½" of insulation is sprayed on the outside of structure



Other Features and Options?

Using Renewable and Sustainable Products such as:

Bamboo flooring - Very durable, trendy, not expensive

Hemp-crete Stucco- Excellent textured look & Insulating properties

Roof top rain water harvesting and grey water recycling - cost savings

Heating options include, radiant floor heating, pellet stoves, thermal gain, sky lights

Roof Mounted Solar panels and hot water collectors can supplement energy cost up to 60%

Roof mounted Wind Turbines can supplement energy cost up to 60%

The savings on building cost allows for budgeting on the purchase of costly renewable energy products

Renewable Energy products usually has a payback of 8-10 years

Cargo-Structure

Control Systems Engineering Space





Zigloo Keith Dewey Architect- Victoria B.C Front View



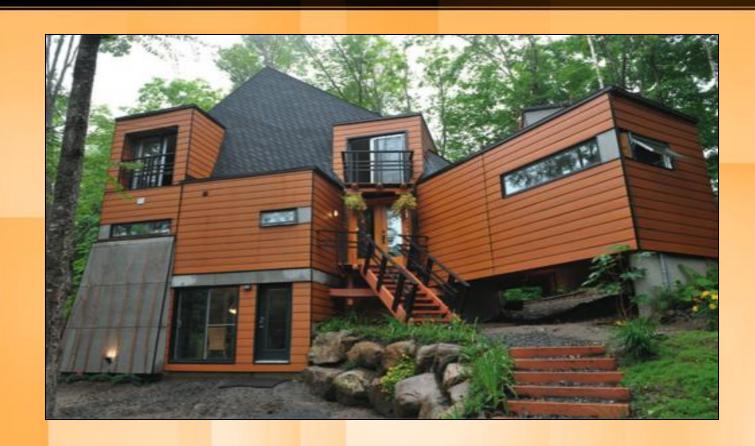
Zigloo Keith Dewey Architect- Victoria B.C Back View



Keith Dewey Inside View



Keith Dewey Inside View



Idekit Mansion St. Adele, Quebec



Idekit Mansion St. Adele, Quebec

Residential and Cottages



Cottages and Eco-Resorts



Student Dorms



Pop-Up Fast Food



De-Centralized Power and Communication



Contact Information

NuEnergy Technologies 727 741-3569 www.nuenergytech.com

Shane Pulak, Senior Project Engineer project.raft@gmail.com

Dr. Hector Guevara- CEO and Chief Scientist hguevara@nuenergytech.com