THE LEAN LIVING PROJECT
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THE
HOCKEY STICK
PERSPECTIVE
PHYSICAL SYSTEM : X
RESOURCES : Y

CARRYING CAPACITY
IT’S NOT OKAY TO BE WASTEFUL
VALUES

- FRUGALITY
- SELF-RELIANCE
- RESPONSIBILITY
- RESPECT
CUT CONSUMPTION
NOT LESS

COMFORTABLE

Less

NOT LESS

COMFORTABLE
## Resource Inventories

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REVERSE ENGINEERING

DOWNSTREAM

UPSTREAM

RAW MATERIALS ➔ SUPPLIER ➔ MANUFACTURER ➔ DISTRIBUTOR ➔ RETAILER ➔ CONSUMER

CONSUMER
WHO ARE THE REVERSE ENGINEERS?
WE ARE
WALK
THE
TALK
CITIZEN ACTION

SINGLE MEMBERSHIP

NON-PARTISAN

AGE IMPARTIAL
NET 3 HOUSES - SERIES 1
NET3 HOUSES

- Strong
- Lightweight
- Compact
- Hybrid
- Flexible
- Engineered
- Resource Efficient
- Quiet
- Cost Effective
- Low Maintenance
- Low Emissions
- Site-Specific
NO POURED CONCRETE

NO MASONRY PRODUCTS

NO GLUE

NO NAILS

NO ON-SITE COATINGS

NO LIVE TREES REMOVED
3-D MODEL
FOUNDATION: HELICAL PILES

1832
Refer Detail A

Typical hole pattern One to Three holes, 3/4”Ø · 7/8”Ø, Crossbolt (shown) or Aligned

Pipe shafts range from 2 7/8” to 3 1/2” OD. Various wall thicknesses

Notes:

1. Shaft: Pipe shall meet or exceed the requirements of a minimum yield strength of 35 ksi, and a minimum tensile strength or 60 ksi.


3. Dimensional tolerances shall be +/- 1.5%.

4. Welding done as per AWS D1.1 weld procedure.

5. Hx = Helix diameter: 6” to 16”.

6. T = Thickness of helix: 1/4” to 3/4”.

7. P = Pitch of helix: 3” or 6”
Figure 4.1 Compression Loading on a Multi-helix Pile

Figure 4.2 Tension Loading on a Multi-helix Pile
WALL SYSTEM

TEMPERATURE RECORDER

THERMAX SI SHEATHING

MINERAL WOOL BATT

VENT SPACE
ROOF SYSTEM
PRE-CAST CONCRETE PIER SYSTEM

Patent Number US 8,464,482 B2

60# Lighter Than a Bag of Unmixed Concrete

Side View of Upper Section

10.5" 12" 11"

EZ-Tube With Base Section

22" 7.5" Typ.

EZ-Tube No Base Section

20# Lighter Than a Bag of Unmixed Concrete

8"
TOOLS
ENERGY USE INTENSITY - (EUI)

KWH/ SQ. FT.

AVG. BUILDING LIFE = 50 YEARS

90% OF ENERGY USE IN A BUILDING IS FOR O&M

30-50% REDUCTION IN EUI
RESOURCE EFFICIENCY FACTOR (REF)
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GET WITH THE PLANET