



A carpenter friendly wood rib option is available. The wood rib can be removed after placement of concrete to be reused within the construction of the structure. Custom designs and pre-assembly are also options.

General Specifications

6-inch Base Section – EPS Insulation with continuous interlocking edges and load-bearing beam cavity every 24-inches
Top Hat Sections – 18" X 48" X 2", 4" or 6" depths. EPS Insulation with self-aligning edges
Steel Stiffeners – Continuous 18-gauge steel channel every 12-inches
Transverse Load (Shoring) – ASTM E72-05 Test – Shore in accordance with latest edition of ACI347R.
Concentrated (Temporary) Load – ASTM E661-03 Test – Load in accordance with ASTM Standards.
Maximum Ceiling Load (Channel Withdrawal) – RAD-3862 Test – Safe fastening load is 128 lbs. per lineal foot or 64 lbs. per square foot.
Fire Resistance Rating – ASTM E 119-00 Test – 1.5 hour rating with 250 lb. per square foot load.
Fire Performance Evaluation (w/1/2 inch Drywall) – UBC 26-3 Test – Passed acceptance criteria.
Fire Performance Evaluation (w/out 1/2 inch Drywall) – UBC 26-3 Test – Passed acceptance criteria.
STC (Sound Transmission Class) – STC 57 by Field Test – 14" concrete joist including 3" concrete cover.
IIC (Impact Isolation Class) – IIC 44 by Field Test – 14" concrete joist including 3" concrete cover. IIC 82 by Field Test – 14" concrete joist including 3" concrete cover and 1/2" Carpet w/Pad.
R-Value – C177 or C518 Test – Overall R-26.4 for 6" Base Section. R-4.40 per inch of Insulation.



Contact us with your plans and let us help you **design the best solution.**

LiteForm
THE BEST WAY TO BUILD!

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HOMES BUILT TO A SAFER STANDARD

Energy Efficient | Sound, Safe, Secure | Added Living Space | Fire Resistance



The Strongest Design Decision You Make



LIVING SPACE UNDER GARAGE

Homeowners are adding LiteDeck to provide an economic, comfortable living space under the garage. These wide open spaces are free from post supports. A moisture free space with endless design possibilities!

PORCH CAPS

Many homes are utilizing the space under the front porch to double as a safe room or storage area. This space usually requires 4' frost walls so the added living space is a low cost addition and can double as a safe room.



DECKS

Imagine yourself with a deck that will support a jacuzzi tub and heavy winter snow loads. LiteDeck achieves the most complex of design criteria. The finished product is a sustainable, maintenance-free outdoor living space. No rot, mold, staining, or splinters.



FLOORS AND ROOFS

The floors of your home can be concrete! Concrete floors combined with in-floor heat are the most energy efficient, quiet and comfortable option for you and your family. Band practice has never sounded so good.



Advantages Forever

STORM RESISTANCE

LiteDeck's solid, reinforced concrete joists and cover is recognized by the Federal Emergency Management Agency (FEMA) to be an effective "envelope of protection against deadly weather."

SOUND CONTROL

Whether it's an in-home recording studio, loud teenagers or even a basement shooting range, LiteDeck makes it quiet. LiteDeck isolates sound to each level with an outstanding STC (Sound Transmission Class) of 53. Lower labor costs and fewer skilled laborers equal savings to the homeowner.

R-VALUE

With average R-Values ranging between 26-50, LiteDeck concrete structures provide a super insulated structure in a world of constant climate changes. The EPS foam and thermal mass of concrete outperforms wood or steel assemblies.

STRENGTH

LiteDeck combined with liquid rock (concrete) provides a bonded assembly that can not be compromised by the strongest of nature's elements. The finished product can also hold up everything from hot-tubs to that new fully loaded pickup truck!



SIMPLE FINISHING

Integrated Steel or Wood studs are used to attach any finish that requires mechanical fasteners.

ELIMINATE POSTS

Eliminate those pesky posts! LiteDeck can span 50+ feet, ultimately eliminating all structural posts providing a completely open living space.

COMFORT & DESIGN

Along with unmatched energy efficiency, eliminate squeaky floors and noise from up above. A natural pairing with in-floor heating systems.

GREEN CHOICE

LiteDeck components are designed to lessen environmental impact. Lightweight panels do not require fuel operated machinery to install.