

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.

GREEN CHOICE

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

COMFORT & DESIGN

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

LiteDeck

HOMES BUILT TO A SAFER STANDARD

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.

ESTIMATED CONCRETE CONSUMPTION

Square Feet of Coverage for 1 cubic yard of Concrete at various LiteDeck Thicknesses.

CONCRETE COVER THICKNESS	6"	8"	10"	12"	14"	16"
2 inch	110	100	90	76	70	66
2.5 inch	90	83	76	66	62	58
3 inch	83	76	71	62	58	55
3.5 inch	71	66	62	55	52	50
4 inch	66	62	58	52	50	47
4.5 inch	58	55	52	47	45	43
5 inch	55	52	50	45	43	41
5.5 inch	50	47	45	41	40	38
6 inch	45	43	41	38	37	35

DEAD LOADS (PER SQUARE FOOT)

SECTION DEPTH	BEFORE CONCRETE PLACEMENT
6"	2.06 lbs.
8"	2.32 lbs.
10"	2.72 lbs.
12"	3.04 lbs.
14"	3.36 lbs.
16"	3.68 lbs.



f @liteformtechnologies

t @liteform

i @liteform_icf

800.551.3313

info@liteform.com

liteform.com



LiteForm®



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 slivers.

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.

LiteDeck^{SRS}



LiteDeck[®] SRS (Steel Rib System) is comprised of high density EPS foam decking and 18 gauge galvalume. LiteDeck[®] SRS comes assembled in custom lengths and can be used for large clear spans.



LiteDeck^{WRS}



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.



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 (26-50)

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!