INSULATED CONCRETE FORMS FOR **FLOORS AND ROOFS**



Advantages for Owners

Durable & Sustainable

Long-term building durability; life-cycle measured in centuries Reduced HVAC requirements, heating and cooling costs Lower life-cycle costs

High thermal mass properties; ideal for passive solar designs

Quiet, Healthy, Safe & Comfortable

High STC ratings; deadens sound transmission

Minimum 2hr. Fire Resistance Rating under USA and Canada standards

Minimized air infiltration - no allergens, improved indoor air quality

Inert material; does not support the growth of mold or mildew

Not a food source for insects

Perfect for in-floor radiant heating

More consistent indoor temperatures

Superior protection against catastrophic events - ideal for Safe Rooms

Advantages for Contractors & Architects

Fast & Flexible

Delivered pre-cut to length - ready for installation

Lightweight, easy to handle - no formwork to be stripped

Up to 35' [10.7m] clear spans

Available in 7" to 121/2" [178mm to 318mm]

EPS Top Hats allow for even greater spans

Ideal for use in parking structures

Easily integrates with Quad-Lock ICF wall system

Rigid panels eliminate 50% of conventional formwork

Lightweight

Reduces floor mass dead load by up to 50%

Reduces structural requirements for foundations and walls

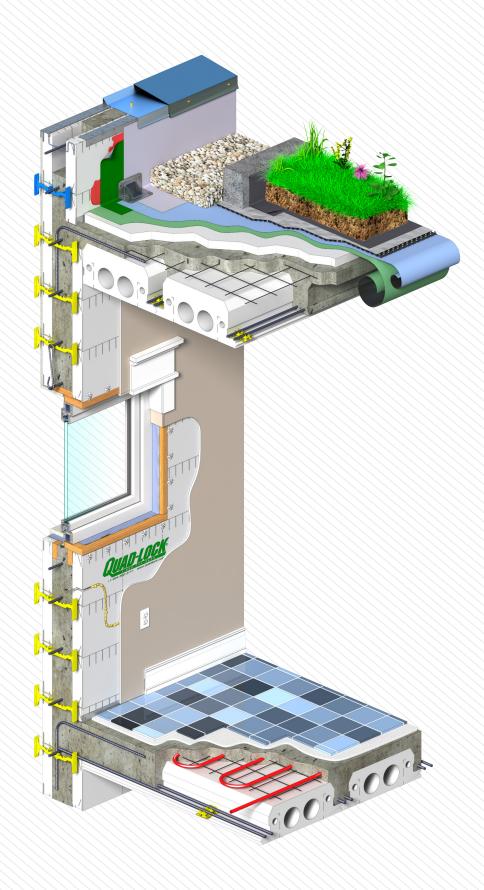
Lighter structure is less theatened by severe earthquake and wind conditions

Reduce Costs

No to minimal site waste

Uses less concrete & steel compared to traditional concrete slab

High R-Values (R-16 to R-25); Low RSI-Values (U-0.35 to U-0.23)



How Quad-Deck Works

Each of the expanded polystyrene (EPS) panels are supported and reinforced with two integral steel beams molded into the product from end to end. The result is a rigid joist and deck forming system that provides the maximum strength of a reinforced concrete deck with minimum added forming materials and labor.

The Quad-Deck Living Green Roof

Quad-Deck is an ideal substrate for living Green Roofs providing long spans and high load capacity.

Using Quad-Deck rather than traditional slab will add less mass to the building structure, reducing overall construction costs

Much less susceptibility to water damage, rot, mold or mildew – far superior to a wood joist roof

Quad-Deck Green Roofs contribute to lower appetite for energy with high insulation, high thermal mass and no air infiltration as well as lower heating & cooling costs, energy use, and CO₂ emissions

Green Roofs extend the life of your building by providing protection from the daily temperature changes to the roof membrane

Green Roofs are ideally suited for LEED certified projects and for water runoff management

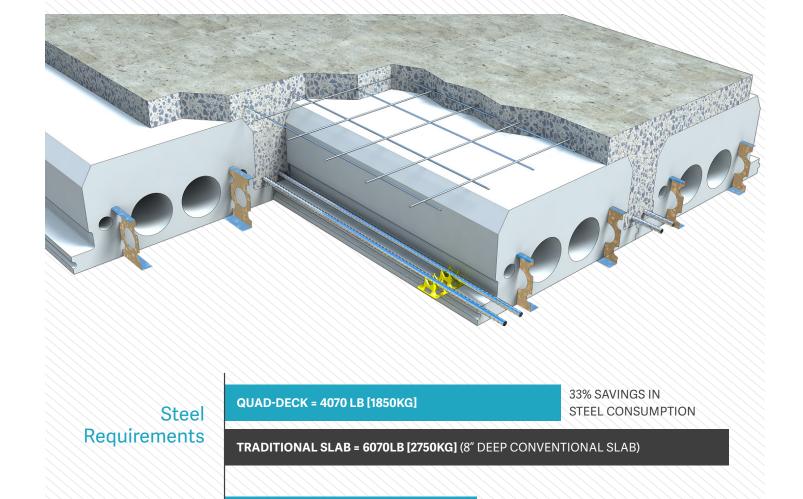
The Quad-Deck Advantage

Ideal for use in both commercial and residential construction, Quad-Deck combines the strength, security, and reliability of concrete with the energy efficiency, design flexibility and comfort of insulating concrete forms. Quad-Deck creates energy efficient and sustainable insulating concrete floor and roof system.

The Quad-Deck Benefit

Quad-Deck 1-Way Slab

11" [280mm] Quad-Deck + 2.5" [63mm] Slab @ 50 psf [2.4 kN/m²] Live Load



Concrete Requirements TRADITIONAL SLAB = 37YD³ [28M³] (8" DEEP CONVENTIONAL SLAB)

QUAD-DECK = 18.4YD3 [14M3]

50% SAVINGS IN

BY REDUCING YOUR STEEL & CONCRETE REQUIREMENTS WITH QUAD-DECK, YOU ALSO REDUCE YOUR MASS BY OVER 50% AND USE 50% LESS SHORING.

QUAD-LOCK BUILDING SYSTEMSA. 19402 - 56 AVENUE, SURREY, BC, V3S 6K4

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VISIT **QUADLOCK.COM**FOR MORE INFORMATION

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