

INSULATED CONCRETE FORMS FOR

FLOORS AND ROOFS



QUAD-LOCK®

CONCRETE
BUILDING SOLUTIONS

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 incremental 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

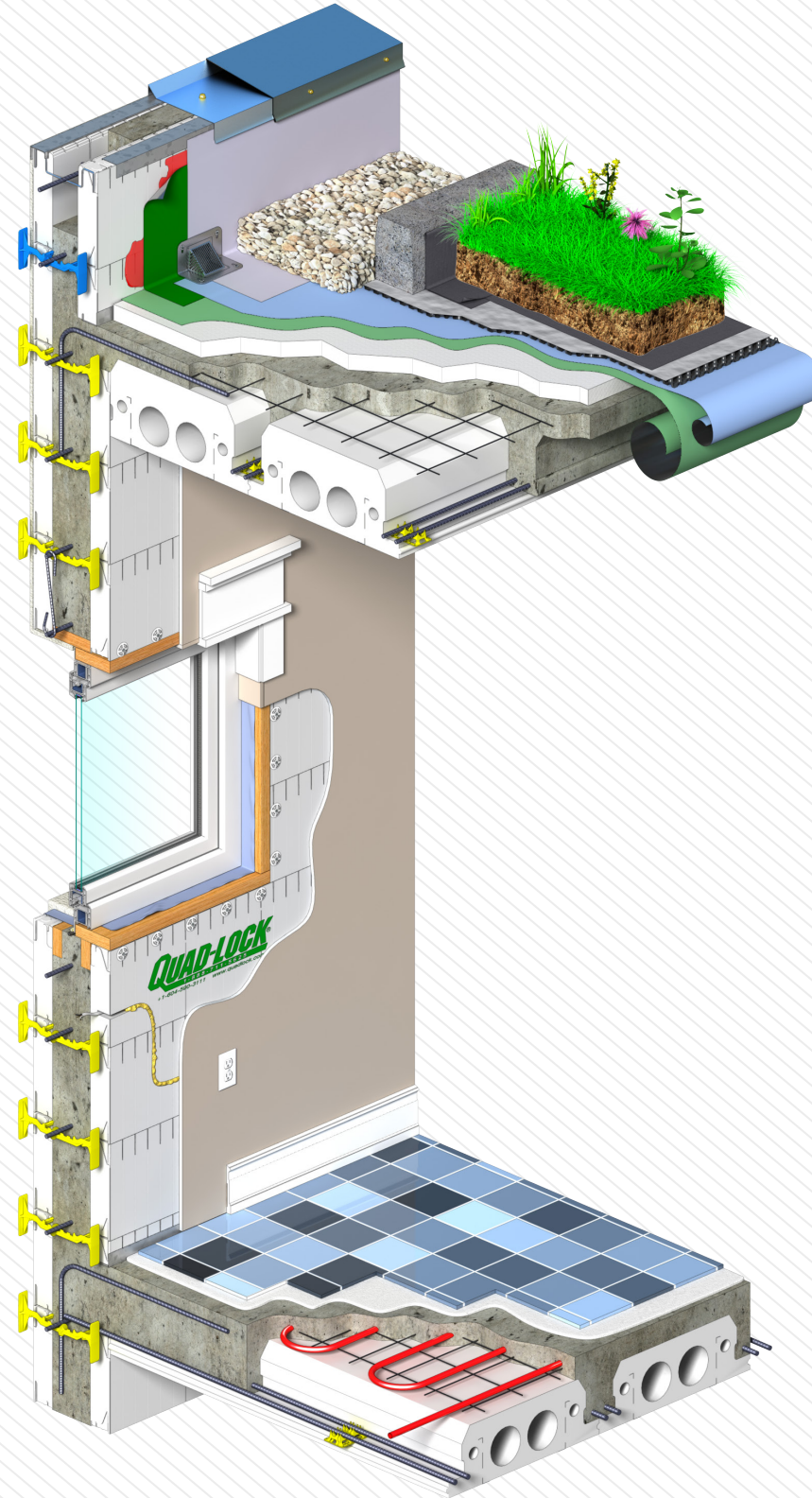
Increased energy savings from Quad-Deck's stay-in-place insulation and from Intensive or Extensive Greening

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 uses Plastbau® Technology to create an energy efficient and quality insulating concrete floor and roof system.



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

Thermal mass properties; ideal for passive solar designs

Quiet, Healthy, Safe & Comfortable

High STC ratings; deadens sound transmission

2hr. Fire Resistance Rating under USA and Canada standards

Minimized air infiltration - no allergens, improved indoor air quality

Inert material; doesn't 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 to site ready to install

Lightweight, easy to handle – no forms to be stripped

Up to 35' [10.7m] free spans, available in 7" to 12½" [178mm to 318mm]

Designed for use in parking structures

Easily integrates with Quad-Lock ICF 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 threatened by severe earthquake and wind conditions

Reduce Costs

No site waste

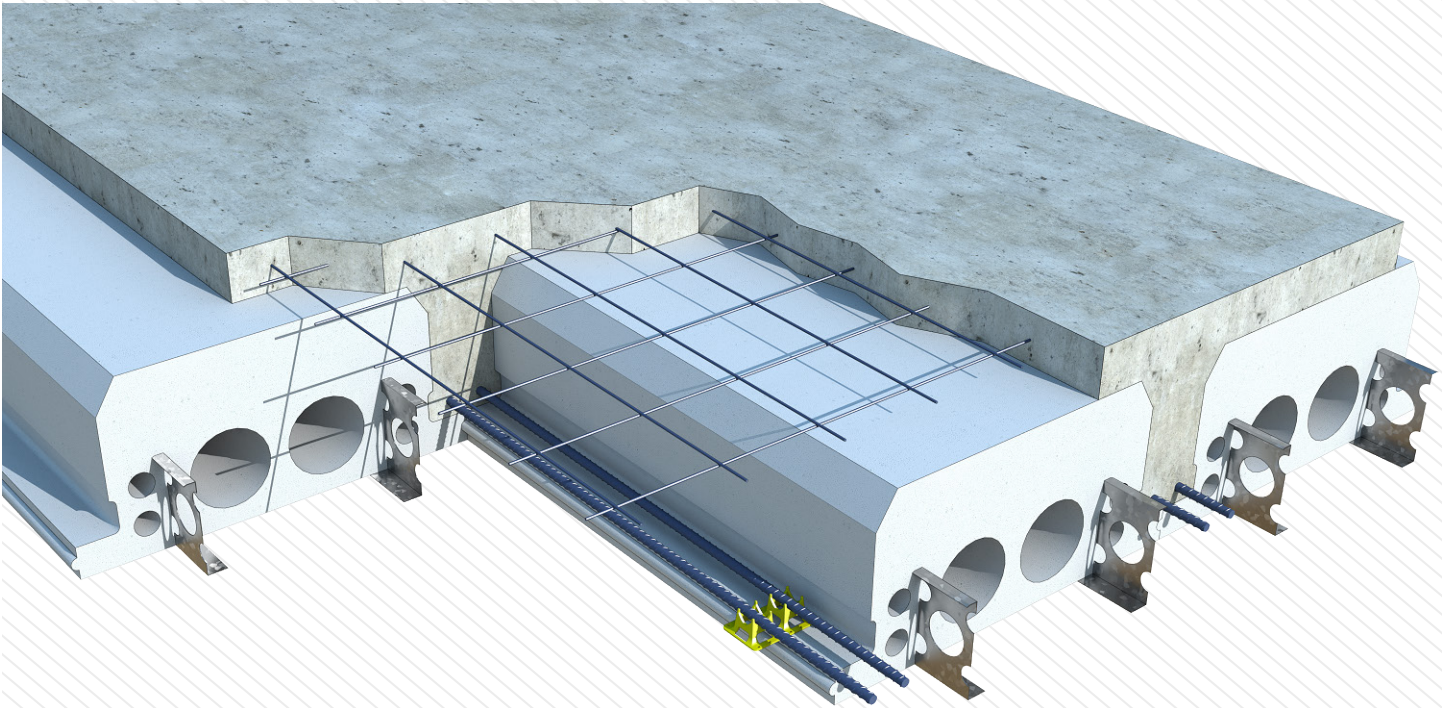
Uses less concrete & steel compared to traditional concrete slab

High R-Values (R-14 to R-25); Low RSI-Values (0.40 to 0.23)

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



Steel Requirements

QUAD-DECK = 4070 LB [1850KG]

33% SAVINGS IN
STEEL CONSUMPTION

TRADITIONAL SLAB = 6070LB [2750KG] (8" DEEP CONVENTIONAL SLAB)

Concrete Requirements

QUAD-DECK = 18.4YD³ [14M³]

50% SAVINGS IN
CONCRETE USAGE

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

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 SYSTEMS

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January 2020 | Printed in Canada [PUB. #QLC-02]