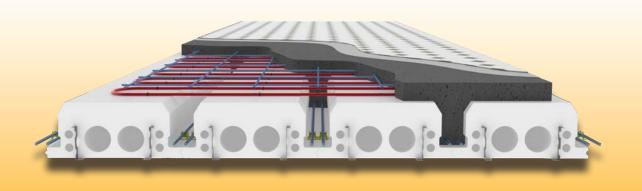
Concrete Building Solutions

QUAD-DEGK





Insulating Concrete Forms for Floors and Roofs

The Quad-Deck Advantage

The Technology

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 Contractors & Architects:

Fast & Flexible

- Delivered to site ready to install
- Lightweight, easy to handle no forms to be stripped
- Up to 31' [9.5m] free spans, available in thicknesses of 7" to 131/2" [178mm to 343mm]
- Slab thickness from 1¾" to 6" [45mm to 152mm]
- Easily integrates with Quad-Lock ICF system

Lightweight

- Lighter structure; eliminates 50% of conventional shoring
- Reduces floor mass dead load by up to 50%
- Reduces structural requirements for foundations and walls

Reduced Costs

- No site waste
- Uses less concrete & steel compared to traditional concrete slab
- High R-Values (R-16 to R-33); Low U-Values (0.35 to 0.17)

Advantages for Owners:

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

Durable & Sustainable

• Thermal mass properties; ideal for passive solar designs

Quiet, Healthy, Safe & Comfortable

- High STC ratings; deadens sound transmission
- Rated Fire Resistance (ACI216)
- 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





"After exhaustive

comparisons of many

roof systems, I found

different floor and

Quad-Deck to be the safest, highest performing, and

most cost effective system available

based on a life-cycle

- Kyle Dumbleton, AIA, LEED Assoc. Midwest Modern , LLC Madison, WI



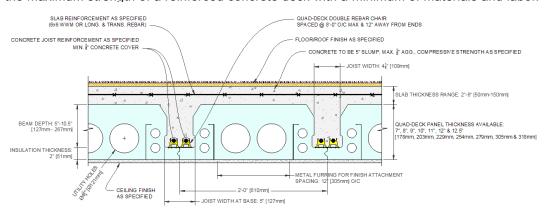
Insulated Floors for Elevated Buildings

More and more schools and owners of homes and commercial buildings in flood zones are using elevated Quad-Deck floors to minimize or eliminate future water damage and substantially reduce insurance premiums.

The Quad-Deck Solution

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 self-supporting joist and deck forming system that provides the maximum strength of a reinforced concrete deck with a minimum of materials and labor.





The Quad-Deck Living Green Roof

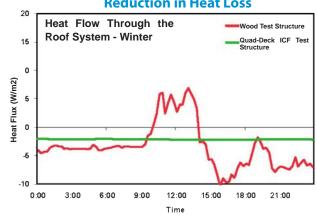
• Using Quad-Deck rather than traditional slab will add less incremental mass to the building structure, reducing overall construction costs

- Much less susceptibility to water damage, rot, mold or mildew - far superior to a wood joist roof
- Increased energy savings from Quad-Deck's stayin-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

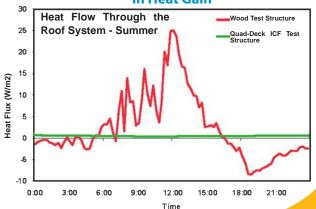
Green Roof Study

A recently completed 2-year study by BCIT's Centre for Architectural Ecology confirms that Quad-Deck Green Roofs provide superior Thermal performance when compared to traditionally built structure.

Ouad-Deck Green Roof = 50-75% Reduction in Heat Loss



Ouad-Deck Green Roof = 99% Reduction in Heat Gain





"The forethought of using the Quad-Deck System on the roof allowed us to create a wonderful areen space, providing the residents with added living space and the many additional benefits of green roof technology."



- Keith Miles **Northern Hills** Redevelopment Orange, NJ

BCIT's Centre for Architectural Ecology, Study Director, Maureen Connally calls green roofs "...the greatest real estate opportunity of this century."



Quad-Deck Comparison

Quad-Deck vs. Traditional Slab

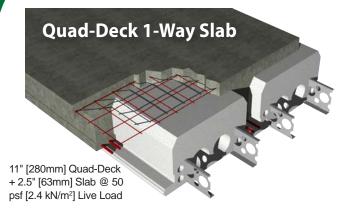
Single Span = 25' [7.6m] • Floor Area = 1500 sqft [140m²]

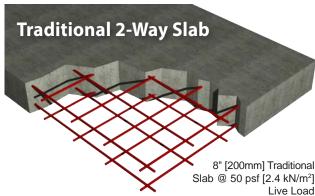


"We use Quad-Deck because of its strength advantage. Once the concrete is poured on the Quad-Deck and into the Quad-Lock walls, it ties the floors and walls together seamlessly. This has been a superior selling point to our customers."



- Mike Hanes Homes American Made Caro, MI







By reducing your Steel & Concrete Requirements with Quad-Deck, you also reduce your Mass by over 50% and use 50% less Shoring.

Product Testing:

- Quad-Deck finished with ½" GWB met the requirements of NFPA 286-11 and ISO 9705:1993, Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- Quad-Deck complies with ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials
- Quad-Deck achieves up to STC 53 under ASTM E-90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements
- Quad-Deck's ultimate average pullout value for embedded steel furring is 410lb [185kg] as per Load Testing report performed by Applied Technical Services Inc.

SHORING & BRACING: Installer is responsible for the design and correct installation of Shoring of Quad-Deck forms in accordance with ACI (American Concrete Institute) 347R-94 "Guide to Framework for Concrete" Chapter 2, Design. Any variance from these standards must be provided and certified in advance by a Structural Engineer, licensed for the job-site location and specifications.

REINFORCED CONCRETE: Installer is responsible for placement of all reinforcing steel in accordance with ACI (American Concrete Institute) 318-95 "Building Code Requirements for Reinforced Concrete". Any variance from these standards must be provided and certified in advance by a Structural Engineer, licensed for the job-site location and specifications.



Phone: 604.590.3111

Toll Free: 888.711.5625

Email: info@quadlock.com

Web: www.quadlock.com

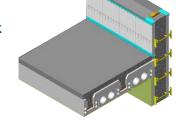
Head Office:

7398-132 St., Surrey, BC, Canada V3W 4M7

ISO 9001 Certified Company



Easily integrated with Quad-Lock ICF walls to form a complete ICF Building Envelope.





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Visit www.quaddeck.com for more information.