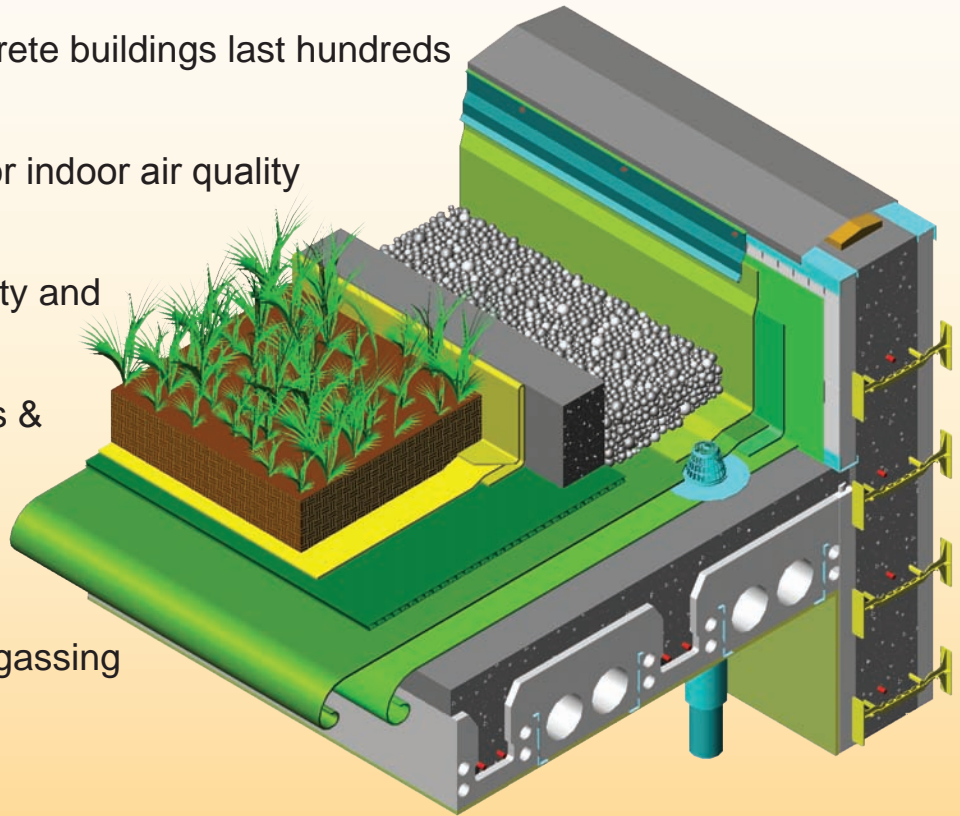


## The Easiest Way to Support your Green Roof

What if you could build in less time, save on operating costs and be green? With Quad-Lock you can.

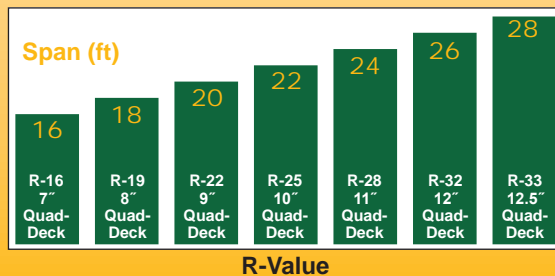
- No susceptibility to water damage
- Lower appetite for energy – high R-values / zero air infiltration
- Faster construction time; forming and insulating in one step
- Extensive lifecycle – concrete buildings last hundreds of years
- No air infiltration – superior indoor air quality for occupants
- Disaster resistance – safety and security
- Lower costs for operations & maintenance
- 40% less concrete is required
- No CFCs, HCFCs, no off-gassing



### Load & Span Estimates\* for Quad-Deck Roofs

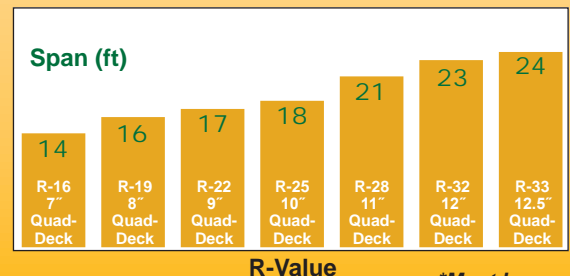
#### Extensive Greening

Typical Live Load = 35+ lbs/sqft



#### Intensive Greening

Typical Live Load = 100+ lbs/sqft

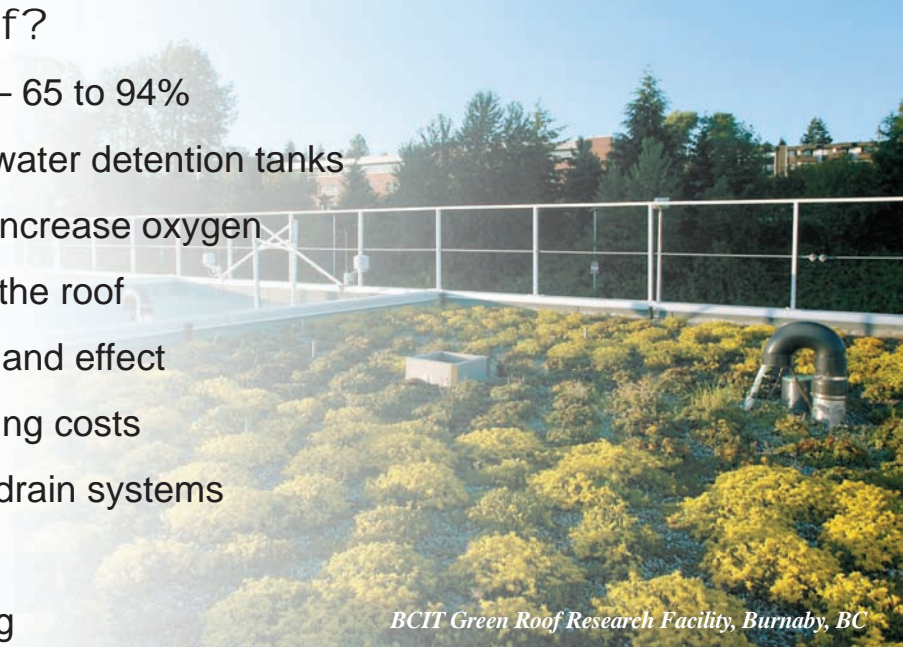


\*Must be engineered

**With a concrete substrate, there is little or no change to the structural design to add a green roof...**

### Why Green Your Roof?

- Lower** stormwater runoff – 65 to 94%
- Reduce** the size of stormwater detention tanks
- Reduce** CO<sub>2</sub> production, increase oxygen
- Double** the service life of the roof
- Reduce** the urban heat island effect
- Save** on heating and cooling costs
- Reduce** or eliminate roof drain systems
- Reduce** noise
- Enhance** the urban setting



### Compare:

#### Heat Flow Reduction\* <sup>1</sup>

- Spring/Summer: 83-85%
- Fall/Winter: 40-44%
- Overall reduction: **66%**

\*Green Roof Research Facility, BCIT, Vancouver BC  
<sup>1</sup>When compared to a conventional roof

#### Ambient Roof Temperatures

