

Concrete Pavement

MAKING THE GRADE ON INFRASTRUCTURE SUSTAINABILITY

Optimizing pavement with expected use and performance conditions in mind can improve costs and reduce lifetime CO₂ emissions.

Here's Why

LONGEVITY



Concrete is an economical, cost-effective pavement solution that consumes minimal materials, energy, and other resources for construction, maintenance, and rehabilitation activities over its lifetime.

RIGIDITY

Because of its rigidity, concrete pavement deflects less under vehicle loading, which results in **reduced vehicle fuel consumption**.



INCREASED REFLECTIVITY



Concrete pavement's lighter color helps **mitigate urban heat island effects and can help offset global warming**.

RENEWABLE



Concrete pavement can periodically be renewed through diamond grinding, prolonging its lifespan, **enhancing its smoothness, and improving its skid resistance**.

RECYCLABLE

Concrete pavement is **100% recyclable**, suitable for use in new concrete pavement, base materials, or controlled fill.



ENVIRONMENTAL IMPACT



Two-thirds of a pavement's total environmental impact over its lifetime often occurs during the phase in which the pavement is in use – well after material and design selections are made.

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