

ECOtect™

Eco concrete

CARBON-REDUCING CONCRETE

ECOtect is a low-carbon concrete delivering 100% performance with at least 30% lower carbon footprint, compared to standard (GU) concrete.



Standard concrete mix

+



Reuse of by-products

=



Up to 90% lower carbon concrete

0%

ECOtect, PRIME or MAX

100%

Primary Features

- Actively reduce CO₂ emissions in your build, regardless of the project
- Low-carbon concrete for high-performing, sustainable, circular construction
- Higher long-term compressive and flexural strengths
- Available in a variety of strengths and technical properties, compliant with industry standards
- Offers improved durability, reduced permeability, ASR mitigation
- Can be handled, pumped, and finished like conventional concrete

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Product Range

ECOtect

AT LEAST 30% CARBON REDUCTION

A low-carbon concrete utilizing blended cement, which has between 30%-50% reduction in CO₂ compared to a standard (GU) concrete.

ECOtect PRIME

OVER 50% CARBON REDUCTION

An engineered very low-carbon concrete utilizing higher blends of cements while also using supplementary cementitious materials. ECOtect PRIME delivers between 50%-70% CO₂ reduction compared to a standard (GU) concrete.

ECOtect MAX

OVER 70% CARBON REDUCTION

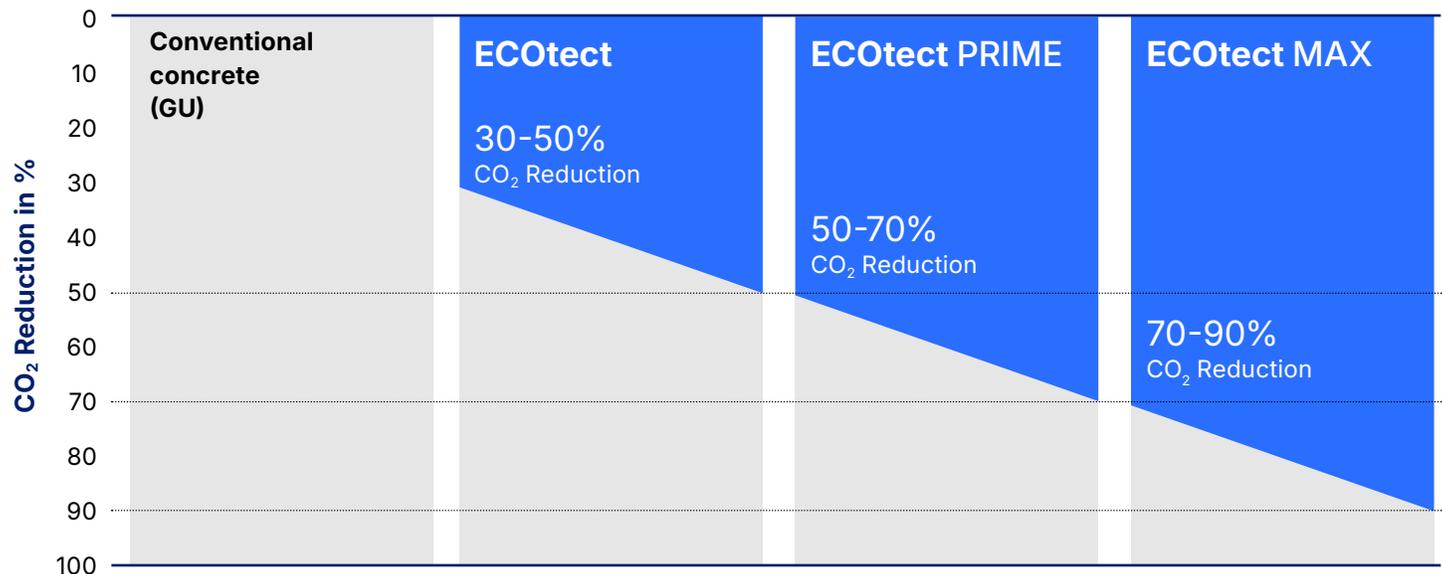
Our lowest carbon range of concrete utilizes a cement alternative technology, such as alkali activators, to achieve a 70%-90% reduction in CO₂ compared to a standard (GU) concrete.

ECOtect+

USE OF RECYCLED MATERIALS

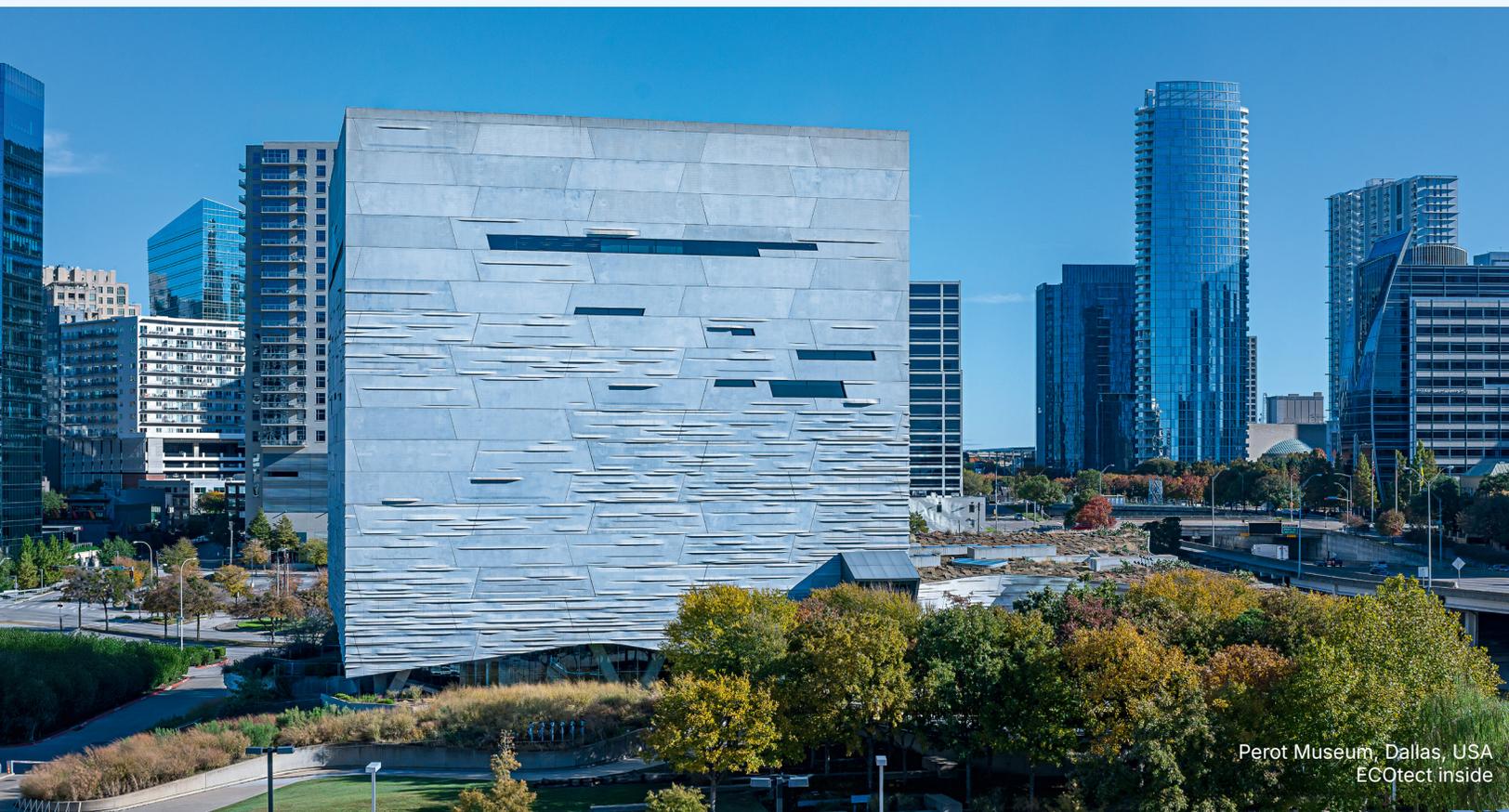
Use of at least 20% recycled content in any ECOtect mix (ECOtect, PRIME or MAX).

CO₂ Reduction



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Perot Museum, Dallas, USA
ECOtect inside

Additional Information

Sustainability From Cradle To Gate

From the very beginning of the manufacturing process, we make sure raw materials are sourced as responsibly as possible. A nationwide network of plants and a highly efficient logistics network enable us to transport materials across the country in an environmentally friendly way.

EPD Type III Certified Performance

ECOtect comes with third-party certified, quantifiable data that confirms the reduced carbon footprint, calculating improvements based on CO₂ values from all our raw materials, transportation, and production. This means we can establish the exact CO₂ reduction in each specified mix.

Innovative Mix Design

Today, the concept of low-carbon concrete includes incorporating the reuse of by-products within the mix designs. By reducing virgin materials and maximizing the use of by-products, we can ultimately reduce a significant amount of our carbon footprint.

Regional Comparisons

The ECOtect range constitutes Amrize's standard national product offering. For performance comparisons against local codes and regional benchmarks, please consult your local Amrize representative.