

Product Evaluation

RE: Enviro-Rock

PRODUCT INFORMATION

Product Name: Enviro-Rock Manufacturer: United Concrete & Gravel Ltd., Quesnel, BC
Website: <https://www.enviro-corp.ca/> Supplier: United Concrete & Gravel Ltd., Quesnel, BC

VENDOR CLAIMS AND INFORMATION

CLAIMS

Enviro-Rock is extremely light (200 kg/m³) and is approximately 85% lighter than traditional aggregates, which reduces structural load and transportation costs. It has Superior insulation property (R- 2.0 per inch), enhancing energy efficiency in foundations and green roofs. It is durable and resistance to fire, frost, moisture, chemicals, pests, and decay, ensuring long-term stability. It is free-draining that prevents water accumulation and mitigates frost heaving.

DESCRIPTION

Enviro-Rock is a lightweight aggregate made with Recycled Glass.

POTENTIAL USAGE

Intended applications for Enviro-Rock include foundation backfills (where its insulation and lightweight properties protect against heat loss and structural stress), road/highway construction (stabilizing soft soils), green roofs (supporting drainage and plant health), landscaping/retaining walls, and radon gas mitigation layers in building foundations.

STANDARDS

ALBERTA TRANSPORTATION AND ECONOMIC CORRIDORS COMMENTS

EXPERIENCE

Transportation and Economic Corridors does not have experience with this product.

APPLICABLE STANDARDS

Transportation and Economic Corridors does not have standard for glass backfill material.

RECOMMENDATIONS

Enviro-Rock be listed as a Potential Product under Transportation and Economic Corridors Products List, Lightweight Fill – Proprietary, based on the information provided. Final acceptance as a proven product will be based on field performance.

RESTRICTIONS ON USE

Caveat:

- 1) The aggregate shall comply fully with the Specification 3.2, Aggregate Production and Stockpiling
- 2) The product use must be designed for site-specific conditions by a qualified engineer registered with APEGA.

TRIAL PROJECTS

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