



What is Cellular Concrete?

Cellular concrete is a low-density fill material primarily used in geotechnical applications. The product is made by injecting (or blending) a pre-formed stable foam into a cement-based slurry. CCI consistently uses the the highest quality foam materials available on the market. CCI's primary supplier, Cellular Concrete LLC, works hard to bring a high level of research and development to the industry. CCI considers Cellular Concrete LLC to be one of the highest quality product suppliers available on the market today.

Who We Are

Cellular Concrete Inc. (CCI) is a leader in the production and installation of foam concrete. Our lightweight cellular concrete is the ideal solution for design needs, offering a strong cost/value advantage for lightweight fill construction. The use of modern, high-production equipment gives the end user the most reliable, cost-effective solution the industry has to offer.

CCI provides owners, engineers and contractors with innovative, cost efficient means to tackle fill material needs when presented with poor or compressible soils, load reduction, surcharging areas, deep foundation backfills, underground voids, and other lightweight fill environments.

Densities

Cellular concrete's cast density ranges from 20 pcf to 100 pcf, with typical applications requiring 25 pcf to 70 pcf to utilize its high strength to low density ratio. With its low density, our cellular concrete imposes little vertical stress on the substructure, a particularly important issue in areas sensitive to settlement.

Compressive Strength

Cellular concrete combines low density with good compressive strength. Most common strengths range from 40 psi to 500 psi. Heavier densities with higher compressive strengths can be achieved by adding sand or other fillers. The compressive strength of the cellular concrete can be adjusted to suit your project requirements.

Pervious Cellular Concrete

CCI offers pervious cellular concrete, a new product which allows water to easily pass through the mass. It has many of the same redeeming characteristics as our traditional closed-cell concrete, but drains at a rate of 1×10^{-2} , or about 500 inches of water per hour depending on the mix used. Pervious cellular concrete works great for backfills behind retaining walls that require more drainage than compacted soil, adding minimal lateral pressure. This cost effective product will also work well as sewer bedding.

Range of Uses

- Replaces unstable soil to reduce subsistence of roadways, bridge ramps, buildings and other structures.
- Engineered fill (annular or abandonment) for tunnels, water lines, sewers and culverts.
- Fills voids within soils, abandoned mines, underground tanks and pipelines.
- Reduces loads above underground structures.
- Reduces hydrostatic pressure against walls.

Notable Projects

Minnesota Twins Target Field
MN Gophers TCF Stadium
Xcel Energy Center
Science Museum of Minnesota
St. Mary's Hospital / Mayo Clinic
Hiawatha Light Rail Transit
IKEA Furniture Store
Marquette Interchange, Milwaukee
C.P. Rail Station

Client References:

Mortenson Construction; Lametti & Sons;
Bituminous Roadways, Inc.; Adolphson &
Peterson; CH Meyer Construction; Kenny
Construction; Ricci/Welch; City of
Minneapolis; City of St. Paul; City of Des
Moines; City of Milwaukee; MNDOT;
WisDOT; Metropolitan Council,
Minneapolis; Valley Paving; GL
Contracting; Midwest Contracting;
Knutson Construction; Infratech; City of
Eagan; City of Chaska; City of Green Bay;
Subsurface; City of Brooklyn Center;
Walsh Construction; McGough
Construction; Army Corp of Engineers

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