



Aerix Industries™

Advanced Engineered Foam Solutions

T E C H N I C A L B U L L E T I N

Bulletin 13-1707 PLDCC in Landscape Applications

When free-draining, lightweight material solutions are required, versatile Permeable Low-Density Cellular Concrete (PLDCC) can be engineered to meet whatever strengths and drainage characteristics are needed for many landscaping projects.

In sports playing field or other landscaping applications, PLDCC provides increased compressive and shear strength and a permeable separation between topsoil and native soils, allowing natural moisture to pass through the material and enter the subsoil below.

A key benefit to selecting PLDCC over non-permeable material solutions in landscaping applications is the ability to minimize/eliminate the time and costs involved in design, construction, and installation of extensive (and expensive) landscape drainage systems. Other benefits of PLDCC include:

- High Bearing Capacity – PLDCC is stronger than soils or compacted fills, providing strength and stability without disturbing/redirecting natural water flow.
- Low Density – PLDCC provides load reduction without sacrificing strength or stability, ideal for reducing vertical loads over weak soils.
- Environmental Soundness – PLDCC has enhanced filtering capability, which keeps the ground water cleaner.

Other free-draining PLDCC applications include bridging over existing unsuitable weak soils for load reduction, replacement of unsuitable materials, greenways and green wedges, embankment construction for ramps and bridge approaches, open cut backfills, and backfilling of MSE panels and/or retaining walls.

When weight and drainage are vital considerations, pervious cellular lightweight concretes provide proven, cost-effective, engineered, project solutions.

For more information, please contact the Aerix Industries technical or sales staff.