

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

## Bulletin # 16-1204 Utilization of Silt Fabrics with PLDCC

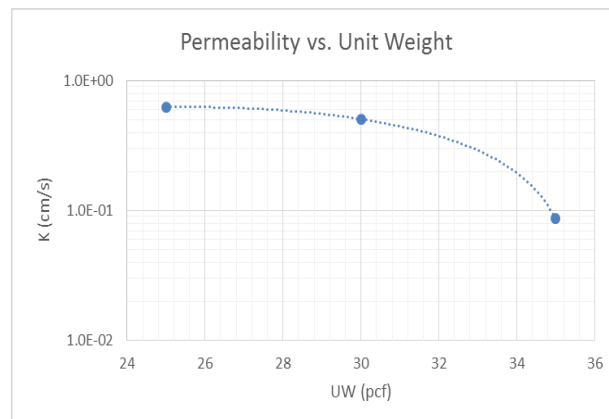
Consideration of a silt fabric is recommended in the design when utilizing permeable low-density cellular concrete (PLDCC) in a backfill project if it is being placed alongside native soils. The inclusion of a silt fabric will ensure that the expected permeability of the PLDCC will be maintained over the life of the project.

The permeability of the silt fabric should be equal to or greater than the specified permeability of the PLDCC so that no back pressures are created.

Ave. Permeability cm/hr	
Permeable Cellular Concrete	36
Sand	5
Sandy Loam	2.5
Loam	1.3
Clay Loam	0.08
Silty Clay	0.25
Clay	0.005

A silt fabric should also be considered when placing Pervious Pavement (defined as the pervious driving/wearing surface) over Permeable Low-Density Cellular Concrete defined as PLDCC replacing traditional fills. In this case the silt fabric needs to be placed between the Permeable Low-Density Cellular Concrete and the Pervious Pavement.

On-going studies of permeable cellular concrete at UMKC might differ depending on test results.



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