



SHIELD SYSTEMS, INC.

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CETCO LEED PRODUCTS



VOLCLAY
ULTRASEAL BT

VOLCLAY
ULTRASEAL SP

VOLCLAY
VOLTEX

VOLCLAY
VOLTEX DS

VOLCLAY
PANELS

STRATASEAL
HR
ASSEMBLIES

STRATASEAL
HR
LEED LETTER

LDC 60 FLUID
APPLIED
WATERPROOF-
ING

AQUADRAIN
10X

AQUADRAIN
15X

AQUADRAIN
15XP

AQUADRAIN
18H

AQUADRAIN
20H

AQUADRAIN
30H

AQUADRAIN
100BD

WATERSTOP
RX

CETCO Building Materials Group has been participating in this program for a number of years working on a variety of LEED certified projects nationwide. LEED is a self-assessing system designed for rating new and existing commercial, institutional, and high-rise residential buildings. It evaluates environmental performance from a "whole building" perspective over a building's life cycle, providing a definitive standard for what constitutes a green building.

CETCO provides several products that qualify as LEED certified products. The purpose of the program is to evaluate the whole building from an environmental performance perspective over the building's life cycle to determine if the building is a "green" building.

Under the program a building is evaluated based on six primary categories including sustainable site, water efficiency, energy and atmosphere, materials and resources, indoor environmental quality and innovation and design process. Points or credits are awarded for the various line items in each of the above categories, and buildings are deemed LEED buildings if they earn a certain number of points. The rating is as follows: a building is LEED Certified with 26-32 points; Silver with 33-38 points; Gold with 39-51 points and Platinum with 52-69 points.

One of the credits available in the first category – sustainable sites – is "Landscape & Exterior Design to Reduce Heat Islands/Roof" (credit 7). The intent of this credit is to "reduce heat islands (thermal gradient differences between developed and undeveloped areas) to minimize impact on microclimate and human and wildlife habitat." As such, one point (of the 69 points available in the program) is available if the building uses a roof with both high reflectance and high emissivity.

The requirement states: "Use Energy Star Roof-compliant, high-reflectance AND high emissivity roofing (initial reflectance of at least 0.65 and three year aged reflectance of at least 0.5 when tested in accordance with ASTM E903 and emissivity of at least 0.9 when tested in accordance with ASTM 408) for a minimum of 75% of the roof surface; OR, install a "green" (vegetated) roof for at least 50% of the roof area."

For more information and links to CETCO Product Tech Data Sheets, visit www.cetco.com



"LEED" is a trademark of the U.S. Green Building Council

SHIELD SYSTEMS, INC.

With over 30 years of experience in the area of Moisture Protection Specialties. Shield Systems, Inc. specializes in below grade waterproofing, sealers for masonry or concrete, waterproofing systems for plaza decks or garden roofs, traffic membrane systems for concrete exposed to vehicular or pedestrian traffic and a full range of exterior and interior expansion joints.

Our services include assisting during design development, providing field observations and support as well as the training of field personnel in proper application of various waterproofing "systems" offered by our various vendors. In general, we assure positive results by our involvement in projects from start to finish.

As partners with the marquee manufacturers in our industry, our resources and product technology is truly unmatched. We commonly provide specifications as well as CAD details for project specific applications. Remedial services include forensic work such as core sampling and independent test reports or analyses to assure proper product selection for specific structures.

Product representation includes the following manufacturers. In addition, we have developed extensive resources from which we can draw from on an as needed basis.

CETCO the leading manufacturer of below grade bentonite waterproofing, waterstops, chemical and bentonite grouts and membrane roofing systems.

STRONGWALL INDUSTRIES the industry pioneer in deck coating systems that are exposed to vehicular and pedestrian traffic as well as high performance structural concrete repair mortars.

EMSEAL EXPANSION JOINTS providing the industry with expansion joints suited for parking decks, exterior wall systems, stadiums, various below grade applications and interior joints.

DOW CORNING state of the art silicone sealants for window manufacturing including hot melt Instant Glaze technology for in plant applications.

DEGUSSA the premier producers of Chemtrete, Aquatrete, Dynasytan and Protectosil clear penetrating silane sealers and Corrosion Inhibitors for masonry and concrete structures.

Shield Systems, Inc. provides free consultation for above grade and below grade waterproofing. We offer assistance in the selection of "systems" best suited for your specific waterproofing needs then provide the support in the generation of specs and CAD details.

Locally, our waterproofing systems have been used on such projects as the **Metro-link Tunnel Extension** (Volclay Bentonite Waterproofing), **Maryville Center Garages** (Chemtrete Silane Sealer), **BJC Expansion** (Emseal Expansion Joints), and the **Lambert Main Terminal Garage Repair** (Strongcote Traffic Membrane), to name a few. Our involvement throughout the installation process assures long term waterproofing success.

If you have an immediate need for more assistance in the selection and specification of these type products, please contact us at your convenience by email: tomsuter@shieldsystems.com or call our office at 314-865-5550 or my cell at 314-713-2271.