

## SD-Glass™ Submittal Data

SD-Glass™ is a recycled glass aggregate material used for Storm Water Management filtration devices, French drains, light weight structural backfill, and permeable paving sub-base materials. In addition to enhancing water volumes, glass is a superior filter utilized by many municipalities for waste water treatment facilities.

### Recycling Process

The best purpose for most recyclable glass is to return the glass to the glass production stream. However, some grades of glass (usually sorted by color) and pyrex are not recyclable due to the amount of energy required to melt them into another product. Unrecyclable glass is subsequently land filled after rejection from a higher end use. Once crushed and graded however, these materials can be diverted from the waste stream and utilized as high quality (light weight) storm water management filtration aggregates. This use allows the material to be recycled thereby eliminating extraction and processing of virgin alternative aggregates. Because recycled post consumer materials can be inconsistent, available quantities may vary. We usually have 25,000—50,000 CY of stock ready for shipping.

### Geotechnical Information

Geo-Technology Associates, Inc. (GTA) has performed an evaluation of the SC-Virgin™ for use as a pond liner and core trench material (compliance with MD-378). Testing method ASTM D-422, the material was found to be a low plasticity clay (CL) in accordance with the Unified Soil Classification System (USCS) and exhibited a natural moisture of 17.2% and an optimum moisture of 17.5%.

USCS classifications provide information regarding soil behavior. The typical results of the testing were as follows:

#### SUMMARY OF LABORATORY TESTING

Moisture	USC CLASS.	AASHTO	Retained No. 4 Sieve, %	Retained No. .375 Sieve, %	Hyd. Conductivity
.1% Moisture	SP	A-2-4	94.4%	59.3	3.3 c/m sec*

Note:

\*at a dry density of 72.9 lbs/cf with a head of 1.2 cm.

For questions regarding the Geotechnical data and design herein, please contact Scot Gordon, P.E. of GTA at 301-638-3094.

1 GTA is not affiliated with SmartSite, LLC and provides independent third party testing and consulting.

2 Costs resulting from inquiries shall be paid by the customer that result in time and testing costs incurred by GTA.

## FAQS: Frequently Asked Questions

### **Q1: Is the material available without advance notice?**

A1: Most of our virgin core materials must be ordered in advance (2-3 days). Hybrid materials are usually available on a first come basis. Glass materials require at least one week notice.

### **Q2: Where does the Hybrid material come from?**

A2: **SC-Hybrid™** is processed by Soil Safe, Inc. at their Brandywine, Maryland facility. Soil Safe recycles construction materials from petroleum contaminated soil and aggregate materials. This recycling process prevents the burning or land-filling of valuable construction materials that are diverted from the waste stream while preventing natural resource extraction. This process is regulated by MDE and is performed in accordance with Permit #2003-OPS-14480C.

### **Q3: How can you tell that the material has been processed correctly?**

A3: Because the **SC-Hybrid™** is stabilized with both cement and lime the material will not be plastic (NP). This means that the material will not roll in your hand (like a standard clay test).

### **Q4: Is this material LEED Certified?**

A6: The **SD-Glass™** is an environmentally friendly material, that LEED has acknowledges credit towards construction waste management as well as recycled content. LEED however certifies green projects, not materials. As members of The United States Green Building Council (**USGBC**), we can help you apply for your project's LEED recognition.



LEEDS

The U.S. Green Building Council is a nonprofit membership organization whose vision is a sustainable built environment within a generation. Its membership includes corporations, builders, universities, government agencies, and other nonprofit organizations.

