

# Synthetic Compressible Inclusion

## Description

Furnish and install Synthetic Compressible Inclusion (SCI) panels to the lines, grades and thickness' specified and where shown on the plans or as directed in writing by the engineer.

## Materials

### GENERAL

Furnish Synthetic Compressible Inclusion (SCI) panels in 4 ft. x 4 ft. x 10 inches thick or in thickness' shown on the plans. The SCI panels shall have a size tolerance of  $\pm$  1/8 inch for each dimension and meet the physical properties given below.

#### PHYSICAL PROPERTIES

ASTM D1622	Density (Nominal)	1.0 pcf
ASTM D1621	Strength at 10% Deformation	<5 psi
ASTM D1623	Tensile Strength	16 psi
ASTM D732	Shear Strength	55 psi
ASTM D1621	Modulus of Elasticity	<100 psi

#### PHYSICAL STANDARDS

ASTM D3345-74 Insect Resistance (ants, termites etc.)

The SCI panels shall be produced by a manufacturer with an in place, third party certification, Quality Control program which is monitored by an independent testing organization.

The SCI panels shall be labeled with the manufacturer's name and product type.

Adhesive for installing SCI panels shall be supplied by the SCI panel manufacturer.

### **BASIS OF ACCEPTANCE:**

Furnish the Engineer with two copies of the third party certified test report showing that the SCI panels meet the physical properties and standards listed above.

GeoTech TerraFlex manufactured by licensees of GeoTech Systems Corporation, 9912 Georgetown Pike, Suite D-2, Great Falls, Virginia 22066, (703) 759-0300, is an approved material.

The Engineer will randomly test SCI panels delivered to the job site. If any panel does not conform to the specified physical properties the sampled shipment will be rejected in writing by the Engineer.

## **CONSTRUCTION DETAILS**

### **GENERAL:**

Exercise care to prevent damage to the SCI panels during delivery, storage, and construction. Damaged panels will not be used.

Protect the SCI panels from: (1) Organic solvents such as acetone, benzene, and paint thinner; (2) Petroleum based solvents such as gasoline and diesel fuel; (3) Open flames; (4) Prolonged exposure to sunlight (no more than 90 days) during shipping and on-site storage.

### **INSTALLATION:**

Place 3 walnut size daubs of adhesive evenly spaced across the top of the panel and press the panel against the vertical surface. Stagger panel joints. Trim the panels as necessary to maintain proper coverage throughout the panel height. Trim or cut the panels using a handsaw or an alternative cutting method approved by the Engineer.

To avoid continuous joints, place panels in a bond pattern and orient each successive layer midway over the previous layer as shown on the plans.

### **METHOD OF MEASUREMENT**

The quantity of Synthetic Compressible Inclusion is the number of square yards satisfactorily installed as measured in its final position.

### **BASIS OF PAYMENT**

The unit price bid per square yard includes the cost of labor, materials, incidentals, and equipment necessary to satisfactorily construct the Synthetic Compressible Inclusion.