



Play it safe!

EcoPlay™

Product Specification #PG-2

1. **DESCRIPTION:** *EcoPlay* is a technologically advanced safety-surface system intended for use in playground and pool areas where head- impact and environmental-safety are of paramount concern. The system is designed to provide mandated HIC (Head Injury Criterion) characteristics, as required for up to an 8 ft. fall height. A unique layered design also provides for calculable drainage

over any properly prepared existing substrate, with minimal excavation or import/export. The system surface features a non-abrasive, ADA compliant replicated grass, which encapsulates and separates users from infill materials; contains no urethanes or heavy metals; making it environmentally safe and recyclable.

2. The system is in-filled with *Organite™*, a polyorganic™ all-natural, environmental-friendly compound, which contains no synthetic chemicals and, therefore, contains no polycyclic aromatic hydrocarbons (PAHs); butylated hydroxyanisole, or any other known carcinogens. Neither does it contain any of the chemicals of recycled tire rubber or sand, which are suspected to cause reproductive or developmental toxicity (*Organite™* is, therefore, Prop 65 compliant). The *Organite* is also factory-treated, in its entirety, with a durable anti-microbial to protect against the growth of bacteria, fungi and mold. Recycled tire rubber may be substituted only when indemnifying prior-approval is provided, in writing, by specifier.

2. DESIGN FEATURES:

A. Geomembrane – a 20 mil, impervious, high-friction liner may be placed over properly prepared and graded existing aggregate, asphalt or concrete.

B. EcoFlo™ drainage blanket – a frustumated drainage and shock attenuation composite is installed over the geomembrane, allowing for a rainfall evacuation capacity in excess of 4.5 inches per hour.

C. FallSafe™ shock attenuation composite – a rigid, 2” thick, compressed recycled polymer composite that assures HIC results under 1000, for up to an 8 ft. fall, when installed in conjunction with the other elements of the system, and in accordance with this specification, is installed over the drainage blanket.

D. EcoPlay Replicated Grass™ - consisting of 50oz/SY, 3/16” gauge, 240 micron, non-fibrillated, monofilament, polyethylene, grass filaments, encapsulating an all-natural, ecologically-safe, polyorganic infill compound, containing no harmful chemicals, which is installed over shock attenuation composite.

RELEVANT TEST DATA;

ASTM F 1292-04, Standard specification for impact Attenuation of Surface Systems Under and Around Playground Equipment.

Mandated Standard: HIC under 1000, G-Max under 200

**EcoPlay System Results at 8 ft. fall height: HIC = 819, G-Max = 130
(TSI report # 36999)**

ASTM D 4716, Transmissivity, gal/min/ft = 5 @ .12 gradient.

EcoPlay System Results at .01 gradient: Calculated vertical-to-horizontal rainfall evacuation rate, using demonstrated transmissivity values, is a minimum 4.5 inches per hour.