

ECOFILL® POSSESSES ALL THE PROPERTIES OF NATURAL EARTH FROM QUANTIFIABLE SAFETY TO PERFORMANCE STANDARDS. THIS DYNAMIC INFILL ALLOWS PLAYERS TO ACCELERATE, PIVOT AND MAKE TRACTION AND TORSO MOVEMENTS WHICH MIMIC THOSE MADE ON NATURAL TURF.



## ENVIRONMENT

- **100% Virgin TPE Granules**
- **GreenGuard Gold Certified**
  - Free of Heavy Metals
  - Free of Phthalates
  - Free of Phosphates

## GREEN FACTS

- **Product is in compliance:**

### SEMI-VOLATILE ORGANICS TESTS

Ecofill Rebound is in conformity with the related requirements of Regulation (EC) 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and to the 16 PAH according to EPA.

- **Why it's important:**

According to the new REACH regulation update (from 25/12/2015), people should not come into direct skin contact with products/components that contain more than 1 mg/kg of one of the 8 Polycyclic Aromatic Hydrocarbons (PAHS) listed (0,5 mg for toys and childcare articles).

- **European Toys Safety Directive, Greenguard:**

### HEAVY METALS TESTS

Ecofill Rebound is in conformity to the EN 71-3-Category III

- **Why it's important:**

Toy Safety Directive 2009/48/EC, European Standard EN 71-3, Migration of certain elements, sets exacting limits for various elements including heavy metals in children's toys. Used to establish compliance with European Union safety standards for toys from July 2013, the accessible parts of toys must no longer contain certain heavy metals such as lead, or chemicals that could provoke cancer, change genetic information or harm reproduction (known as CMR substances).

## PERFORMANCE / SAFETY CHARACTERISTICS

- **Controlled resiliency on the entire play surface**

This ensures extraordinary ball behavior and good playability, shock absorption, energy return and reduces the risk of injury.

- **70% lower energy return than traditional infill materials**

Excessive energy return typical of traditional infill systems may exert additional stress to the athlete's muscles and joints and may lead to premature fatigue.

## RESILIENCY

- **40% more dense than traditional infill**  
High density reduces granule migration providing a more uniform and stable field. It improves athletic performance and reduces injuries.

- **80% lower frequency vibrations versus traditional infill**

Recent studies confirmed that there is a direct relationship between the vibration level on the body and the risk of injury; moreover the vibration level influences the comfort level and athletes' steadiness on the turf.

Type of system	Shock absorption	Energy return
Natural grass	60.3%	4.4%
Mondoturf Ecofill®	63.6%	7.8%
SBR & sand	61.3%	28.6%

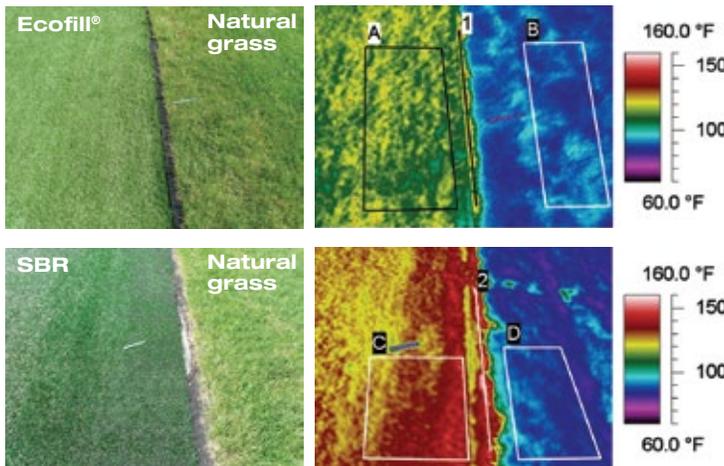
## LESS RADIANT HEAT EFFECT

- **Compared to Ecofill®, traditional black rubber granules will increase the temperature that radiates from the field by 79.8%.** The extra heat that radiates from fields with traditional black rubber granules increases fatigue and discomfort reducing the athletic performance. It can increase the risk of dehydration, may cause blisters and, in extreme conditions, may even cause skin burns.

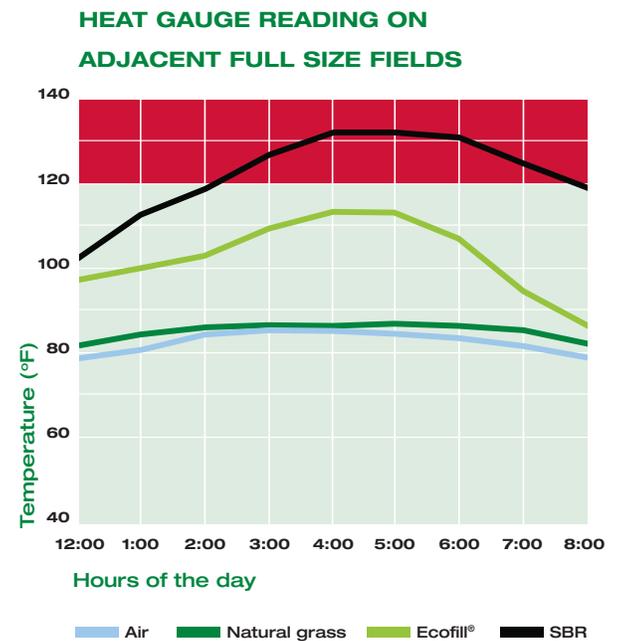
## THERMAL COMPARISON

The following table shows thermal images and their statistical data taken on two adjacent fields, one infilled with Ecofill® and the other with SBR. Both images were taken the same day, with the same meteorological conditions and sunlight angle.

Areas B and D are natural grass.



Type of system	Maximum	Temperature Minimum	Average
Natural grass (B & D)	97.6 °F	82.2 °F	88.0 °F
Mondoturf Ecofill® (A)	127.6 °F	101.8 °F	113.3 °F
SBR (C)	148.5 °F	120.1 °F	133.5 °F



"I was promised that the field would be considerably cooler than those we had played on at other schools. The first time we used it, the temperature was 110 degrees. We walked across the blacktop, which was unbelievably hot, but as soon as we hit the field, it was like a respite. Our players came in and laid down on the field, right in the middle of a summer afternoon practice. Mondo promised that the field would be cooler, and it definitely was."

Ed Lombardi, Football Coach, Elk Grove



Elk Grove • U.S.A.