



GreenFields

**ECO**  
range



**GreenFields**

A TenCate Grass Company

**A PERFECT PITCH  
FOR EVERY PLAYER**

# GREENFIELDS ECO-RANGE

On a global scale, society is becoming more aware of the exhaustion of our planet. An expanding lack of space asks for optimum use of available land. Increasing water shortage asks for solutions to save water resources. Synthetic turf can provide a sustainable path towards optimising space and saving water resources.

The benefits of exercise are well known and therefore it is important to enable people to enjoy sports and play, strengthening their mental and physical health. Synthetic turf for sports provides millions of people worldwide the opportunity to exercise and enjoy sport at the best of their abilities, regardless of available space, local climate, and water availability.

The artificial sports surfaces industry needs a global focus on sustainability to make synthetic turf as 'green' as possible and improve its sustainability and impact on the environment over the whole life cycle.

GreenFields has always been at the forefront of innovation and improving sustainability; being one of the first to utilise natural infill within our turf systems and continue to lead the way in high-end non-filled systems for sports applications. The new GreenFields ECO-range will cover a full range of turf systems; from entry level to high-end with a selection of eco-friendly options covering system design, natural infills, recycling efficacy, material selection and production methods. The range comprises of synthetic turf systems that are robustly classified as having a low impact on the environment. The classification for each system is expressed with a new ECO-label, designed to cover the most important aspects for a sustainable system including: the material footprint, the carbon footprint, and the end-of-life recycling potential.

For clubs and municipalities that want to opt for a durable high-performing sports pitch that is as eco-friendly as possible, GreenFields has the solution.



# GREENFIELDS ECO-LABEL

The GreenFields ECO-range is a range of artificial turf systems designed with a strong focus on sustainability and durable performance. The systems are labelled via an innovative and robust classification system to illustrate the eco-credentials of each system. The sustainability classification has been developed, tested, and evaluated with the support of the new Centre for Turf Innovation by TenCate Grass.

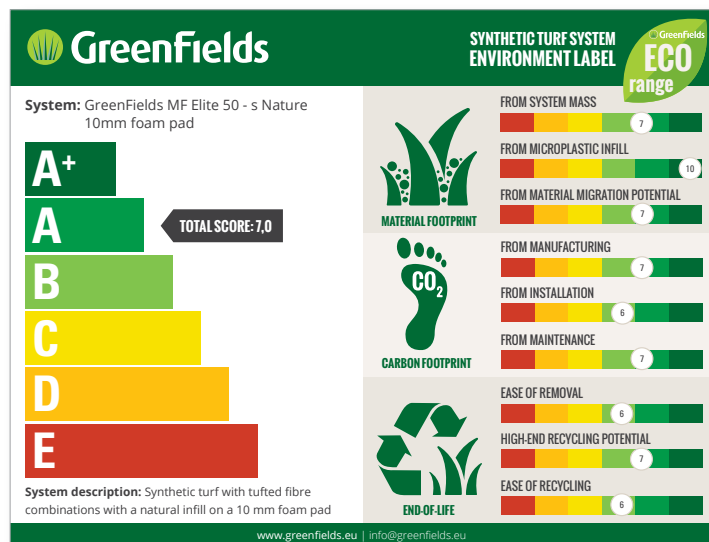
A GreenFields synthetic turf system is assessed in three categories, with each three ECO-variables. With these categories each aspect of the system -from raw material to end-of life recycling- is part of the ECO-labelling system. This system makes it possible to score and compare synthetic turf systems relative to each other.

## THE MATERIAL FOOTPRINT

The first variable taken into account for the material footprint is the system mass expressed in kg. Using less material in the system will improve the score. The second variable for material footprint is microplastic infill volume; reducing the volume of microplastics or replacing it by alternative infills will improve the system score. The third variable is migration potential, which scores the potential loss of materials from the system to the environment. A straight tufted open product has a higher migration potential compared to low pile dense tufted carpets. Even better are products with texturized or fibrillated yarns that hold the infill or pitches with no infill at all.

## THE CARBON FOOTPRINT

This category covers energy usage and emissions from manufacturing and using the product. The first variable is (direct) emission during production, considering energy usage in



component production. Scores can be further improved by using less coating (the curing ovens contribute substantially to the energy consumption) or by using less infill materials or from a low emission source. The second variable is emissions from installation. This variable depends highly on the amount of kg that is moved during installation, as in most cases large machines are used for transport and excavation. A reduction in system weight or building systems more at the surface (less excavation) reduce the CO2 footprint substantially. The third variable is emissions from maintenance. Less maintenance means less machine movements and emissions. Systems that need less brushing and less or no (deep) raking score better.

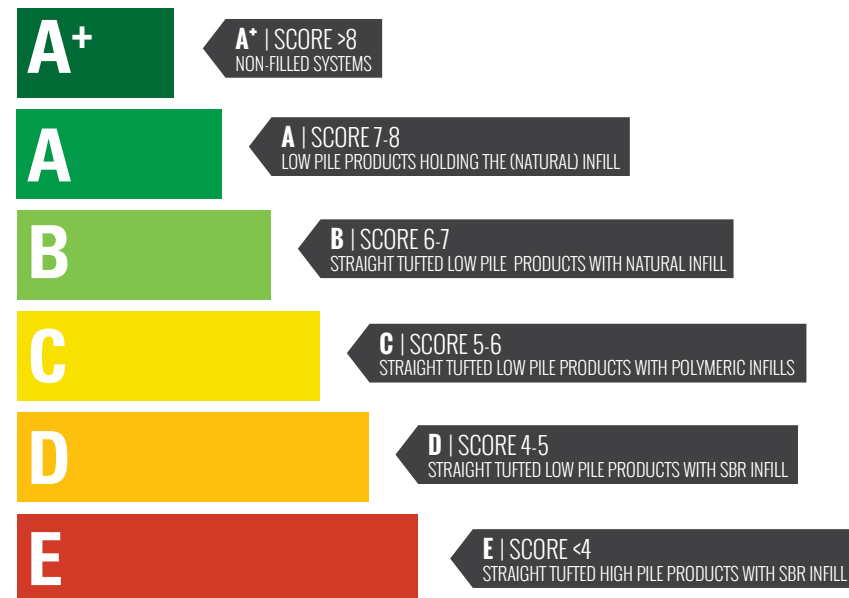
### THE END-OF-LIFE POTENTIAL

The third category is assessed based on the end-of-life potential of the system for new applications and the energy consumption to reach this potential. The end of life removal scores the ease of removal to leave a clean subbase for a new installation and ship the components for recycling. Less components in the system are easier to separate and for instance a shock pad is easier to remove compared to an in-situ layer. The second variable is the recycling potential scored by the percentage of the system which can be

recycled into high-end new applications. If a component consists of a cleaner mono-stream of materials the system scores higher. The final variable, ease of recycling, reflects the number of steps that need to be performed to recycle the system into re-usable materials. More components generally means more steps and the more difficult it is to separate components also results in a lower score.

**The average of all scores combined results in a final grade for the system which is reflected by the ECO-label:**

### TYPICAL SYSTEMS:





# GREENFIELDS ECO-RANGE

**A+**

Next generation non-filled systems

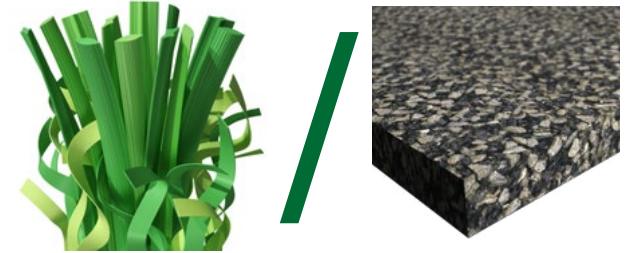
## SLIDE MAX PRO NF - COARSE SAND OUR ENTRY NON-FILLED SYSTEM



## MX NF - COARSE SAND OUR PREMIUM NON-FILLED SYSTEM



## MX NF - ECOCEPT THE ULTIMATE SOLUTION



### ECO HIGHLIGHTS



NO INTENTIONALLY ADDED MICROPLASTICS



EASIER TO INSTALL AND MAINTAIN



TRUSTED SLIDE MAX PRO QUALITY

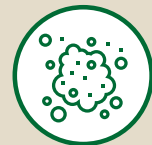


NO INFILL SPLASHES OR POLLUTION



100% RECYCLABLE INTO RTA

### ECO HIGHLIGHTS



NO INTENTIONALLY ADDED MICROPLASTICS



EASIER TO INSTALL AND MAINTAIN



RECYCLING IN DESIGN: SINGLE POLYMER FAMILY



NO INFILL SPLASHES OR POLLUTION



REDUCED CARBON FOOTPRINT IN PRODUCTION

### ECO HIGHLIGHTS



NO INTENTIONALLY ADDED MICROPLASTICS



NO INFILL SPLASHES OR POLLUTION



RECYCLING IN DESIGN: SINGLE POLYMER FAMILY



REDUCED CARBON FOOTPRINT FROM PRODUCTION AND INSTALLATION



BASE LAYER FROM 87% RECYCLED TURF

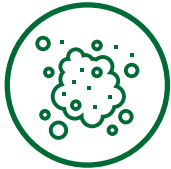
GOOD

BETTER

BEST



# GREENFIELDS **A+** **ECO HIGHLIGHTS EXPLAINED**



## **NO INTENTIONALLY ADDED MICROPLASTICS**

As defined in the proposed microplastics restriction by ECHA.



## **EASIER TO INSTALL AND MAINTAIN**

With minimal maintenance activities this pitch can be kept in top shape.



## **TRUSTED SLIDE MAX PRO QUALITY**

Bestseller for years with many references all over the world. Reduced pileheight results in up to 40% less pile material and 100% reduction of the 18 kg of rubber infill.



## **NO INFILL SPLASHES OR POLLUTION**

Dense thatch layer of texturized yarns to replace the performance infill.



## **100% RECYCLABLE INTO RTA**

The carpet can be shredded and agglomerated into Recycled Turf Agglomerate, one of the main components for Ecocept. Also suitable for other applications like boarding, poles etc.



## **100% RECYCLABLE: SINGLE POLYMER FAMILY**

The product is entirely made of polyolefins and after removal of the sand and infill can be recycled into high grade polymeric granules for new applications.



## **REDUCED CARBON FOOTPRINT IN PRODUCTION**

With only 5% of coating, the carbon footprint in production of applying and curing the coating in the oven is substantially reduced.



## **REDUCED CARBON FOOTPRINT FROM PRODUCTION AND INSTALLATION**

With only 5% of coating, the carbon footprint in production of applying and curing the coating in the oven is substantially reduced. The 25mm Ecocept base layer reduces the excavation depth with 25%.



## **BASE LAYER FROM 87% RECYCLED TURF**

Ecocept base layer made from recycled turf (carpet and infill); exceeding the performance and water management of an e-layer with additional stability.

# GREENFIELDS ECO-RANGE



Premium range with fibre combinations

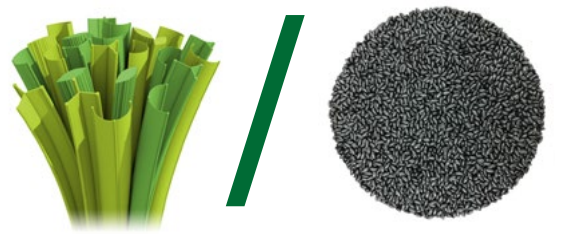
## MF ELITE -s NATURE THE LOW MAINTENANCE SOLUTION



## SLIDE MAX ST -s BIOBLEND THE SEMI FILLED SYSTEM



## MX ELITE -s GREENFILL OUR PREMIUM WOVEN SYSTEM



**ECO HIGHLIGHTS**

- NO INTENTIONALLY ADDED MICROPLASTICS
- BIO-SOURCED NATURAL CORK INFILL
- HEAVY DUTY SLIDE MAX ELITE YARNS
- FIBRILLATED TAPE CONTAINS THE INFILL
- 100% RECYCLABLE INTO RTA

GOOD

**ECO HIGHLIGHTS**

- NO INTENTIONALLY ADDED MICROPLASTICS
- BIO-SOURCED NATURAL MIXED INFILL
- TRUSTED SLIDE MAX PRO QUALITY
- TEXTURIZED YARNS KEEP THE INFILL OPEN AND CONTAINED
- 100% RECYCLABLE INTO RTA

BETTER

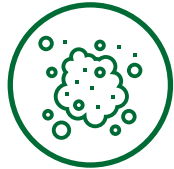
**ECO HIGHLIGHTS**

- NO INTENTIONALLY ADDED MICROPLASTICS
- BIO-DEGRADABLE POLYMERIC INFILL
- PATENTED WOVEN STRUCTURE CONTAINS THE INFILL
- RECYCLING IN DESIGN: SINGLE POLYMER FAMILY
- REDUCED CARBON FOOTPRINT IN PRODUCTION

BEST



# GREENFIELDS **A** ECO HIGHLIGHTS EXPLAINED



## NO INTENTIONALLY ADDED MICROPLASTICS

As defined in the proposed microplastics restriction by ECHA.



## BIO-SOURCED NATURAL CORK INFILL

High quality cork with durable performance, selected based on additional internal quality tests like the Hardgrove wear analysis.



## HEAVY DUTY SLIDE MAX ELITE YARNS

High resilience due to ribbed diamond shaped fibres in reduced pileheight (up to 35% in weight) and 100% reduction for the 18kg of rubber infill.



## FIBRILLATED TAPE CONTAINS THE INFILL

After installation the tape yarns will go flat and start fibrillating in use, reducing splash and keeping the infill in the carpet.



## 100% RECYCLABLE INTO RTA

The carpet can be shredded and agglomerated into Recycled Turf Agglomerate, one of the main components for Ecocept. Also suitable for other applications like boarding, poles etc.



## BIO-SOURCED NATURAL MIXED INFILL

High quality mixture of cork with corn cob granules; higher mass reduces migration and BioBlend has a gradual hydroscopic release, contributing to a lower surface temp. And improved skin comfort.



## TRUSTED SLIDE MAX PRO QUALITY

Bestseller for years with many references all over the world. Reduced pileheight results in up to 40% less pile material and 100% reduction of the 18 kg of rubber infill.



## TEXTURIZED YARNS KEEP THE INFILL OPEN AND CONTAINED

Keeps the infill in the carpet, resulting in lower maintenance with a bio-infill.



## BIO-DEGRADABLE POLYMERIC INFILL

Bio-degradable polyester, receptive to bacterial degradation in the soil due to its innovative molecule structure. Sports performance of a polymeric infill but without the microplastic categorization.



## PATENTED WOVEN STRUCTURE CONTAINS THE INFILL

The patented matrix woven structure on 45mm has space between the bundles of fibres at the bottom of the carpet, but the blooming bundles close the infill at the top.



## 100% RECYCLABLE- SINGLE POLYMER FAMILY

The product is entirely made of polyolefins and after removal of the sand and infill can be recycled into high grade polymeric granules for new applications.



## REDUCED CARBON FOOTPRINT IN PRODUCTION

With only 5% of coating, the carbon footprint in production of applying and curing the coating in the oven is substantially reduced.



# GREENFIELDS ECO-RANGE



Entry range with straight tufted pitches

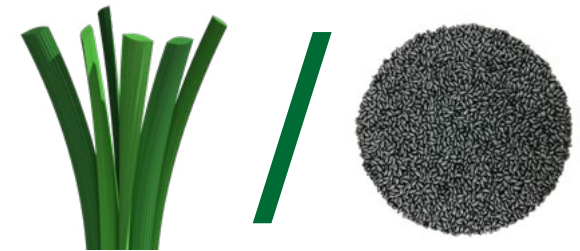
## EVOLUTION PRO -s NATURE THE ECONOMICAL CHOICE



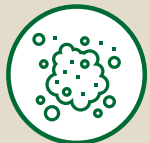
## SLIDE MAX PRO -s BIOBLEND TRUSTED QUALITY



## SLIDE MAX ELITE -s GREENFILL OUR HEAVY WEIGHT



### ECO HIGHLIGHTS



NO INTENTIONALLY  
ADDED MICROPLASTICS



BIO-SOURCED NATURAL  
CORK INFILL



LOWEST MATERIAL  
FOOTPRINT IN THE  
RANGE

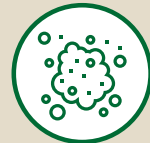


PRODUCTION WASTE  
RE-USED IN THE YARNS



100% RECYCLABLE  
INTO RTA

### ECO HIGHLIGHTS



NO INTENTIONALLY  
ADDED MICROPLASTICS



BIO-SOURCED NATURAL  
MIXED INFILL



TRUSTED SLIDE MAX  
PRO QUALITY



PRODUCTION WASTE  
RE-USED IN THE YARNS



100% RECYCLABLE  
INTO RTA

### ECO HIGHLIGHTS



NO INTENTIONALLY  
ADDED MICROPLASTICS



BIO-DEGRADABLE  
POLYMERIC INFILL



HEAVY DUTY SLIDE  
MAX ELITE YARNS



PRODUCTION WASTE  
RE-USED IN THE YARNS



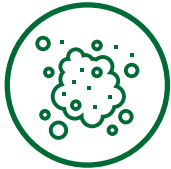
100% RECYCLABLE  
INTO RTA

GOOD

BETTER

BEST

# GREENFIELDS **B** → ECO HIGHLIGHTS EXPLAINED



## NO INTENTIONALLY ADDED MICROPLASTICS

As defined in the proposed microplastics restriction by ECHA.



## BIO-SOURCED NATURAL CORK INFILL

High quality cork with durable performance, selected based on additional internal quality tests like the Hardgrove wear analysis.



## LOWEST MATERIAL FOOTPRINT IN THE RANGE

Carpet in combination with a shockpad up to 50% less compared to a 60mm product: 100% reduction of 18kg/m<sup>2</sup> of polymeric infill.



## PRODUCTION WASTE RE-USED IN THE YARNS

Produced within ISO14001 environmental management system reducing waste and carbon footprint.



## 100% RECYCLABLE INTO RTA

The carpet can be shredded and agglomerated into Recycled Turf Agglomerate, one of the main components for Ecocept. Also suitable for other applications like boarding, poles etc.



## BIO-SOURCED NATURAL MIXED INFILL

High quality mixture of cork with corn cob granules; higher mass reduces migration and BioBlend has a gradual hydroscopic release, contributing to a lower surface temp. And improved skin comfort.



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