

# The "ECOS"® series of recyclable/recycled carpet tiles

## Features

- ECOS has achieved a recycled material ratio of up to 77 percent, the highest ratio level far exceeding conventional products.
- The backing material is made from 100% waste carpet tiles to ensure product safety.
- The "ECOS SG" series uses recycled PET as the surface material (yarn). A life cycle assessment (LCA) of "ECOS SG" showed that the series reduces CO<sub>2</sub> emissions by up to 43% from the level achieved by Suminoe's existing products.

## Overview

(Technical principles, actions, etc.)

- (i) Uses up to 77% post consumer materials, a level far exceeding the Eco Mark standards. Traceable origins of the materials ensure product safety.
  - (ii) A CO<sub>2</sub> emissions reduction of up to 43% (from our conventional products) has been achieved as assessed by Life Cycle Assessment (LCA) conducted by Mizuho Information & Research Institute, Inc.
  - (iii) Recycled products are economically priced, at a price comparable with conventional products despite their tendency toward higher prices.
- Based on the key concept of "Resources for the Future," ECOS carpet tiles implemented the eco value chain comprised of: recovery of carpet tile waste -> recycling -> manufacturing/distribution of recycled carpet tiles -> use -> recovery.

## Introductory Track Record

The series has been delivered to a number of office buildings and business facilities since its release in July, 2011.

## Effects

The "ECOS" series of recyclable/recycled carpet tiles, made with the highest post-consumer content ever, has been proven to substantially reduce CO<sub>2</sub>. By choosing the "ECOS" series in place of products made from virgin materials, customers will also help in protecting the environment.

Applicable field  
Office buildings, public facilities

Water

Energy saving/Energy recovery

ENERGY  
Energy storage/Energy creation

New energy

Waste disposal/  
Recycling/  
Resource saving

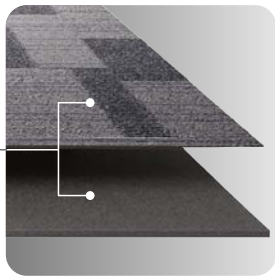
Air

Soil

Other

## ECOS® recycle system (double recycle) flow chart

### Double recycling for surface and backing materials



Both the surface and backing materials use recycled materials.

- The flow chart shows an example for recycling products using a SUMITRON® surface material (yarn) 'ECOS SG-300/300TF,' 'ECOS SG-400,' 'ECOS SG-500'.

Surface material (yarn) [SUMITRON® (recycled polyester yarn)]

