Suminoe Textile Co., Ltd. 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 CO₂ emissions by up to 43% from the level achieved by Suminoe's existing products.

Overview (Technical principles, actions, etc.)

- Uses up to 77% post consumer materials, a level far exceeding the Eco Mark standards. Traceable origins of the materials ensure product safety.
- A CO₂ 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 "**€COS**_{*}" series of recyclable/recycled carpet tiles, made with the highest post-consumer content ever, has been proven to substantially reduce CO₂. By choosing the "**€COS**_{*}" series in place of products made from virgin materials, customers will also help in protecting the environment.

ECOS_® recycle system (double recycle) flow chart

Double recycling for surface Surface material (yarn) [SUMITRON® (recycled polyester yarn)] and backing materials Collecting and transporting of used PET bottles Recycling plant PET bottles 0 6 Recycling 2 6 Use 4 Suminoe Techno Co., Ltd. SUMITRON Purchase/consumption of PET bottled drinks 7 3 Spinning plant Suminoe Techno Co., Ltd. Carpet tile plant Disposing of PET bottles Backing material Collecting and transporting of carpet tile waste Delivery of recycled carpet tiles Both the surface and 6 5 backing materials use Specified recycling plant Recycling recycled materials. FR. 2 Use -n Purchasing 7 Gree stallation 8 3 Suminoe Techno Co., Ltd Carpet tile plant Recycling The flow chart shows an example for recycling products using a SUMITRON® surface material (yarn) 'ECOS SG-300/300TF,' 'ECOS SG-400,' Use of recycled carpet Shipping of carpet tiles Disposing of carpet tiles 'ECOS SG-500').

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*Note: This publication introduces examples of technologies and products believed useful towards solving environmental and energy issues. In no way does it constitute guarantees concerning their transfer or sale.

Water

Air

Soil

Other