



Sustainability Discussion Agenda



- 1. Design for Carbon,
today and tomorrow**
- 2. Design to the
Circular Economy**
- 3. Design to the
multiple attributes
of sustainability**

Shaw Team

Domestic and abroad

Can a floor help us to perform better?

We believe it can! Our team is trained to find solutions that help you make a smarter impact on your future in the workplace environment.



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Shaw's Life Cycle Analysis

Shaw Supply Chain

- Includes all the materials that go into making our products
- The manufacturing processes involved
- Average transportation considerations to deliver our products to the marketplace
- End-of-use fate considerations for our products



EPD[®]

UL-certified EPDs demonstrate a manufacturer's commitment to sustainability while showcasing that manufacturer's willingness to go above and beyond– all in the name of transparency and clarity.

An Environmental Product Declaration is a comprehensive, internationally harmonized report created by a product manufacturer that documents the ways in which a product, throughout its lifecycle, affects the environment.

An EPD is based on Life Cycle Assessment (LCA) data and provides transparency on the environmental impacts of a product from manufacture and use to end of life. UL certifies that the correct type of information is in the report.



EPD®

Environmental Product Declaration (EPD)

www.ul.com

Administered by: UL Environment

THIRD PARTY CERTIFIED BY A PROGRAM OPERATOR

LIFECYCLE IMPACT CATEGORIES

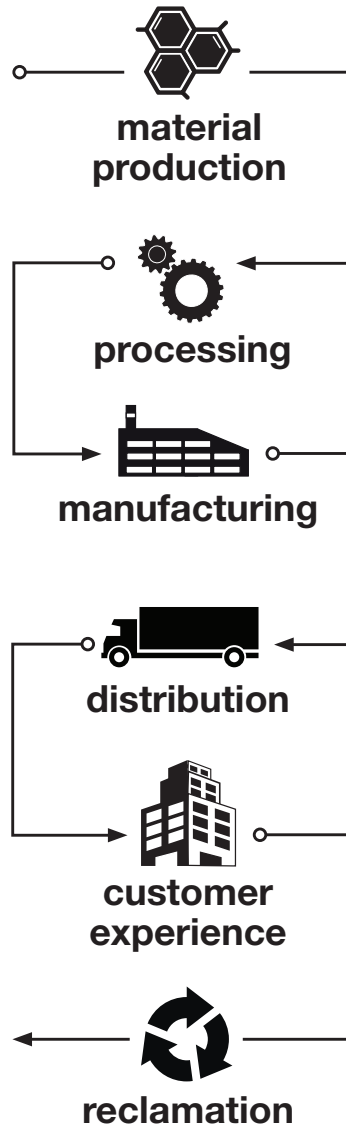
The environmental impacts listed below were assessed throughout the product’s lifecycle – including raw material extraction, transportation, manufacturing, packaging, use, and disposal at end of life.

	ATMOSPHERE			WATER		EARTH	
	<p>Global Warming Potential refers to long-term changes in global weather patterns – including temperature and precipitation – that are caused by increased concentrations of greenhouse gases in the atmosphere.</p>	<p>Ozone Depletion Potential is the destruction of the stratospheric ozone layer, which shields the earth from ultraviolet radiation that’s harmful to life, caused by human-made air pollution.</p>	<p>Photochemical Ozone Creation Potential happens when sunlight reacts with hydrocarbons, nitrogen oxides, and volatile organic compounds, to produce a type of air pollution known as smog.</p>	<p>Acidification Potential is the result of human-made emissions and refers to the decrease in pH and increase in acidity of oceans, lakes, rivers, and streams – a phenomenon that pollutes groundwater and harms aquatic life.</p>	<p>Eutrophication Potential occurs when excessive nutrients cause increased algae growth in lakes, blocking the underwater penetration of sunlight needed to produce oxygen and resulting in the loss of aquatic life.</p>	<p>Depletion of Abiotic Resources (Elements) refers to the reduction of available non-renewable resources, such as metals and gases, that are found on the periodic table of elements, due to human activity.</p>	<p>Depletion of Abiotic Resources (Fossil Fuels) refers to the decreasing availability of non-renewable carbon-based compounds, such as oil and coal, due to human activity.</p>
TRACI	1.94E+01 kg CO2-Equiv.	5.91E-09 kg CFC 11-Equiv.	6.98E-01 kg NOx-Equiv.	5.54E-02 mol H+ Equiv.	3.84E-03 kg N-Equiv.		
CML	1.94E+01 kg CO2-Equiv.	5.60E-09 kg R11-Equiv.	4.39E-03 kg Ethene-Equiv.	5.49E-02 kg SO2-Equiv.	5.36E-03 kg Phosphate-Equiv.	1.36E-05 kg SB-Equiv.	3.01E+02 MJ

FUNCTIONAL UNIT One square meter of installed modular carpet medium face weight (688 grams/square meter, 20.3 ounces/square yard) for use in heavy applications over the referenced service life.

Vertical Integration

As the largest and most vertically integrated carpet manufacturer in the world, Shaw provides the following benefits:



- Flexibility and control of supply chain to meet demands
- Cost control and cost stability
- Consistency in quality
- On-time production and delivery schedules
- Single source accountability



Embodied Carbon Footprint

Five keys to Carbon Management

- Reduced average face weight of nylon fiber
- Elimination of the use of PFAS stain and soil treatments on our Nylon fiber
- Post-industrial and post-consumer recycled content
- Optimize the backing weight for EcoWorx Tile
- Carbon neutral manufacturing for commercial carpet tile

Many of these adjustments and revisions will have favorable improvement in our product's embodied carbon footprint and overall EPD score.



Sustainability Cube

We must focus on the multiple interdependent aspects of sustainability





Cradle to Cradle™

www.c2ccertified.org

Administered by: Cradle to Cradle Innovation Institute

THIRD PARTY CERTIFIED

Cradle to Cradle® provides a multifaceted design philosophy that aligns with Shaw's and the market's sustainability priorities. Through the Cradle to Cradle Certified™ Products Program, Shaw obtains third-party assessment and validation of its performance against key sustainability attributes:



**MATERIAL
HEALTH**



**MATERIAL
REUTILIZATION**



**RENEWABLE
ENERGY &
CARBON
MANAGEMENT**



**WATER
STEWARDSHIP**



**SOCIAL
FAIRNESS**

It's a commitment we made more than 20 years ago with the introduction of the first Cradle to Cradle Certified™ flooring product - EcoWorx® backed carpet tile. And as an enterprise, we have the most certified product platforms of anyone in the flooring industry!

Nearly 90% of the products we manufacture are now Cradle to Cradle™ Certified and have undergone a rigorous material health assessment.

ShawContract®

Free Global Reclamation

Our customers receive free reclamation and recycling of EcoWorx products through our worldwide Environmental Guarantee. This saves you transportation and landfill costs and preserves the environment through landfill diversion supporting your waste minimisation goal

- Shaw has recycled more carpet than any other manufacturer in the world; more than 992 million pounds
- Shaw empowers our clients to participate in a Circular Economy



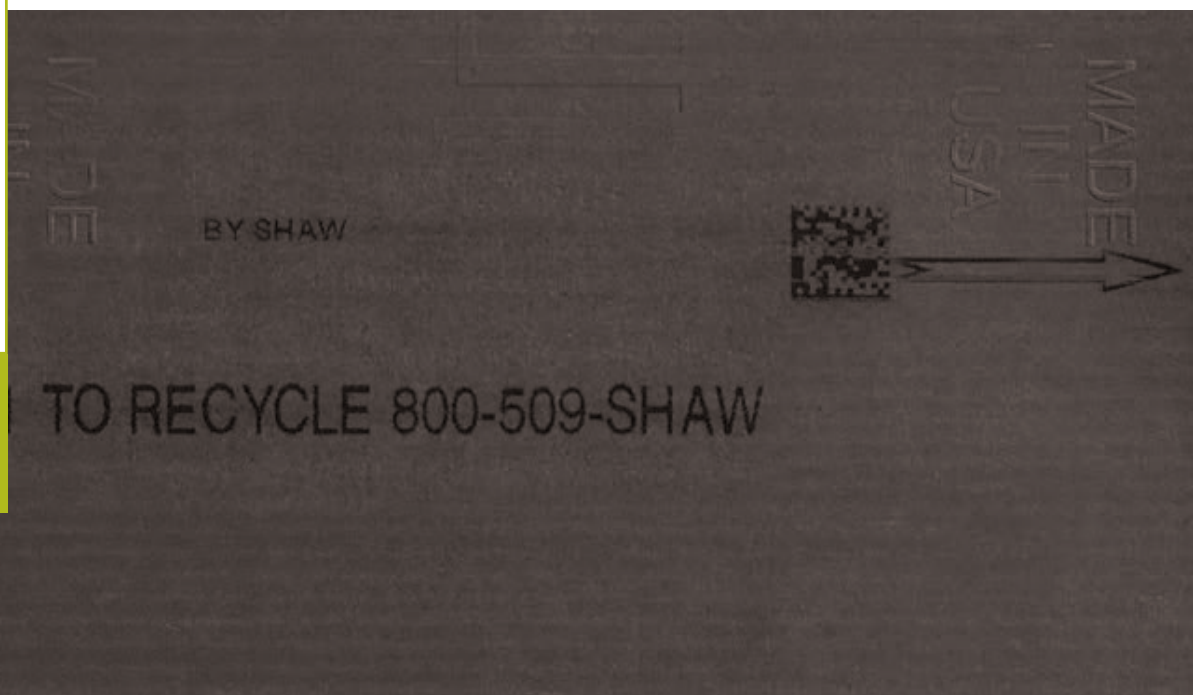
eco✱**worx**[®]

We Want It Back

Shaw is the largest carpet recycler in the industry.

- Global take back guarantee
- Landfill avoidance and cost savings
- Total cost of ownership

Our EcoWorx[®] backing is 100% recyclable



IN RECOGNITION OF AN ECO-INTELLIGENT CARPET INSTALLATION



SAMPLE ECO CERTIFICATE

based on the purchase and installation of approximately 16,000 SY of EcoWorx® Tile

THIS CARPET MADE WITH **ECOWORX®** BACKING
IS DURABLY MADE AND MEASURABLY KIND

BY RECYCLING **ECOWORX®** CARPET INSTEAD OF USING ALL VIRGIN MATERIALS

100%

RECYCLABLE

GUARANTEED COLLECTION
AND RECYCLING THROUGH
SHAW ENVIRONMENTAL
GUARANTEE PROGRAM



THIS CARPET
CONTAINS AN
AVERAGE OF

36%

RECYCLED
CONTENT

RECYCLING
THE OLD ECOWORX
PREVENTED
APPROXIMATELY

89,800

POUNDS OF CARPET
FROM LANDFILL



SAVED
APPROXIMATELY

580

GALLONS OF GASOLINE.

ENOUGH GAS TO DRIVE
AN AVERAGE CAR
12,500 MILES



SAVED
APPROXIMATELY

11,500

POUNDS OF CO2.

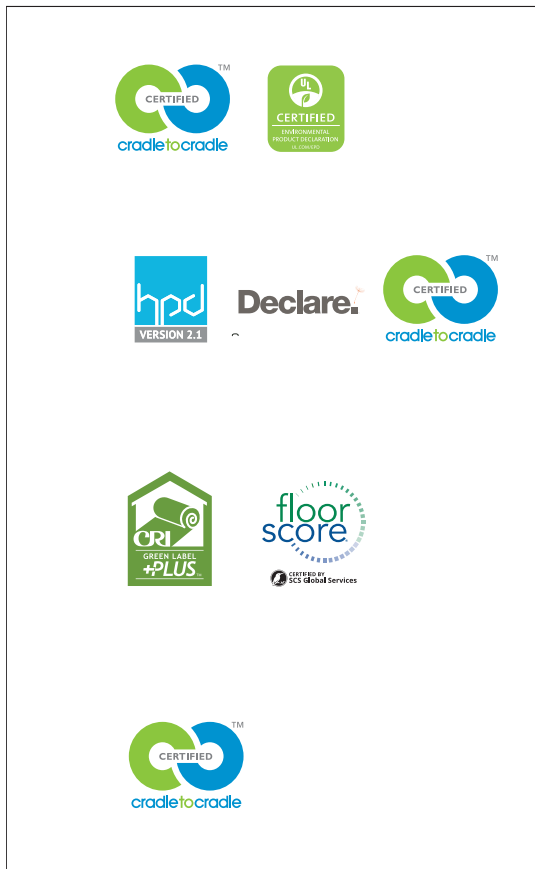
THE EQUIVALENT OF
PLANTING 4 ACRES
OF TREES



Product Certifications

Smarter Choices, Smarter Impacts

Cradle to Cradle Certified™ Products Program and its rigorous material health standards help us ensure our products are designed for people and the planet.



Carbon

– EPDs

Transparency
& Material Health

– HPD

– Declare Label

Indoor Air Quality

– Green Label Plus

Water Social Responsibility
& Circular Economy

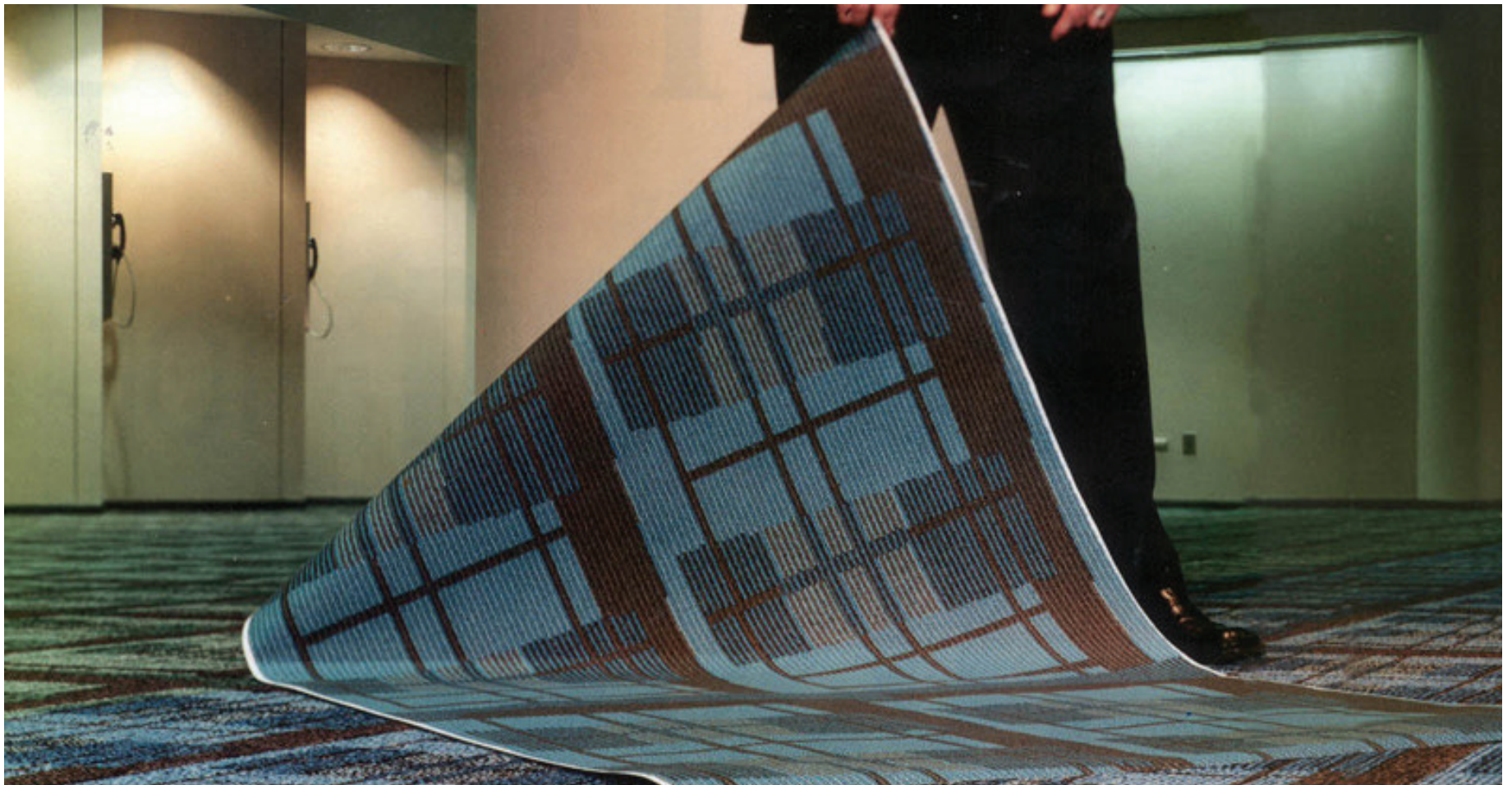
– NSF 140 Gold & Platinum

Tryk Carpet Sample

Printed on paper

TRICYCLE

The Chattanooga-based technology firm supports the commercial interiors business through the production of digital carpet samples, which are used by many floor covering manufacturers; these printed simulations are used instead of actual physical samples, creating less waste



ShawContract®

Product Samples Packaging & Recycling

Total Sample shipments 2017-2020:

Broadloom	520,726
Tile	2,127,873
Resilient	842,480
Hard surface	38,30

- In 2019 we used 2.1 million sq feet of bubble wrap
- As of January 2, 2020, all hard surface samples are shipped in paper based products
- Current sample packaging for carpet is plastic and is 100% recyclable

Shaw Contract ships over 10,000 carpet sample swatches per week

Sample Recycling Program allows customers that do not have a means to recycle the plastic to place materials in the bag along with the product shipped, and we will recycle this material for them. Our website allows customers to go online and generate a return label to ship any boxes of Shaw Contract samples back to us for recycling at no charge to the customer. Sample recycling for US and Canada are included in this program.



Questions?



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