

# Interface®

## LEED v4.1 MRc2 EPD Option 2: LCA Optimization Action Plan for carpet tile on GlasBac backing

**Product to be Optimized:** Interface and FLOR brand carpet tile on GlasBac backing

### Impact information and Reduction Summary

<b>Manufacturer:</b>	Interface																																																																					
<b>Manufacturer Contact Information:</b>	Lisa Conway, VP, Sustainability, Interface Americas <a href="mailto:sustainability@interface.com">sustainability@interface.com</a>																																																																					
<b>Product Name:</b>	Interface and FLOR brand carpet tile on GlasBac backing																																																																					
<b>Product Type:</b>	Commercial Building Product																																																																					
<b>Product Description:</b>	Commercial-grade carpet tile (modular carpet)																																																																					
<b>Manufacturing Location:</b>	LaGrange, GA																																																																					
<b>Title of the Environmental Product Declaration that the Assessment is Based Upon:</b>	Interface (2016). Interface Americas modular carpet on GlasBac, Nylon 6 styles EPD Declaration Number: 4787521006.101.1																																																																					
<b>Life Cycle Assessment/ Environmental Product Declaration Type:</b>	<input type="checkbox"/> Publicly available, critically reviewed LCA (conforming to ISO 14044) <input type="checkbox"/> Internally verified LCA with a product specific EPD (conforming to ISO 14025, EN 15804, or ISO 21930) <input checked="" type="checkbox"/> Product specific Type III EPD (external verification of LCA and EPD)																																																																					
<b>Link to publicly available EPD</b>	Retrieved from <a href="http://www.interface.com/epd">www.interface.com/epd</a>  <a href="#">Link to EPD</a> for Americas Nylon6 GlasBac carpet tile																																																																					
<b>PCR</b>	IBU and UL Environment. PCR for Building-Related Products and Services - Part A: Calculation rules for the LCA and Requirements Project Report, (IBU/ULE,Version 1.306.19.2014)IBU. Part B: Requirements on the EPD for Floor coverings (IBU, V1.6, 07.30.2014)																																																																					
<b>Date of EPD:</b>	October 10, 2016																																																																					
<b>Scope:</b>	<p>Description of the system boundary (X = included in LCA; MND = module not declared)</p> <table border="1"> <thead> <tr> <th colspan="3">PRODUCT STAGE</th> <th colspan="2">CONSTRUCTION PROCESS STAGE</th> <th colspan="8">USE STAGE</th> <th colspan="3">END OF LIFE STAGE</th> <th colspan="1">BENEFITS AND LOADS (BEYOND THE SYSTEM BOUNDARY)</th> </tr> <tr> <th>Raw material supply</th> <th>Transport</th> <th>Manufacturing</th> <th>Transport from the gate to the site</th> <th>Assembly</th> <th>Use</th> <th>Maintenance</th> <th>Repair</th> <th>Replacement<sup>1)</sup></th> <th>Refurbishment<sup>1)</sup></th> <th>Operational energy use</th> <th>Operational water use</th> <th>De-construction demolition</th> <th>Transport</th> <th>Waste processing</th> <th>Disposal</th> <th>Reuse-Recovery-Recycling-potential</th> </tr> <tr> <th>A1</th> <th>A2</th> <th>A3</th> <th>A4</th> <th>A5</th> <th>B1</th> <th>B2</th> <th>B3</th> <th>B4</th> <th>B5</th> <th>B6</th> <th>B7</th> <th>C1</th> <th>C2</th> <th>C3</th> <th>C4</th> <th>D</th> </tr> </thead> <tbody> <tr> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>X</td> <td>MND</td> <td>X</td> <td>MND</td> <td>MND</td> <td>MND</td> <td>MND</td> <td>MND</td> <td>MND</td> <td>MND</td> <td>X</td> <td>MND</td> <td>X</td> <td>MND</td> </tr> </tbody> </table>	PRODUCT STAGE			CONSTRUCTION PROCESS STAGE		USE STAGE								END OF LIFE STAGE			BENEFITS AND LOADS (BEYOND THE SYSTEM BOUNDARY)	Raw material supply	Transport	Manufacturing	Transport from the gate to the site	Assembly	Use	Maintenance	Repair	Replacement <sup>1)</sup>	Refurbishment <sup>1)</sup>	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential	A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D	X	X	X	X	X	MND	X	MND	X	MND	X	MND						
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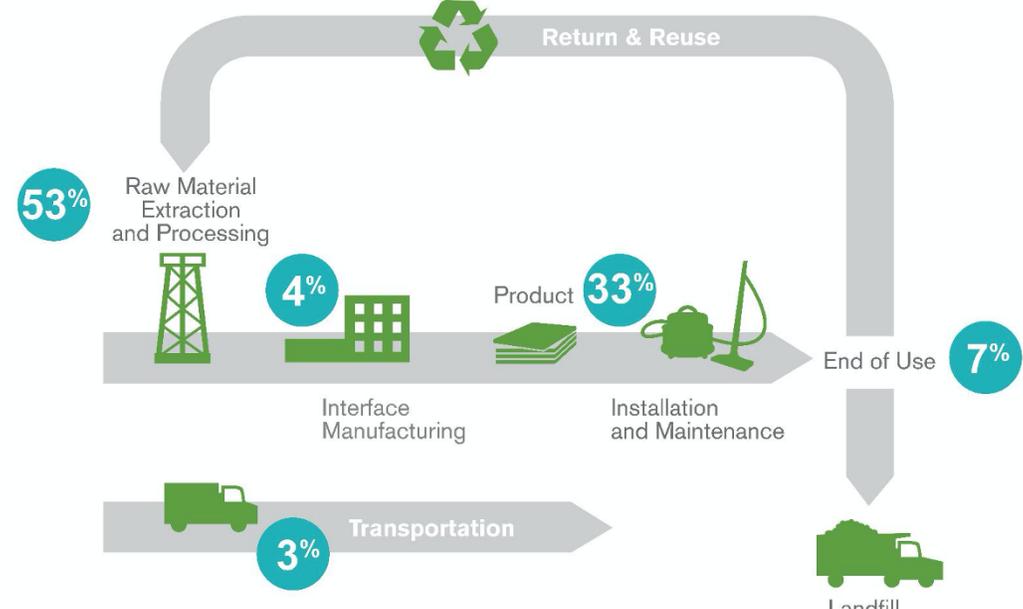
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<b>Describe how the scope of the EPD aligns with actions identified in this Action Plan</b>	The specific actions identified in the Action Plan were identified through investigation of delivery module A1 (Raw Material Supply), which was required in the PCR, analyzed in the LCA, and presented in the EPD.
<b>LCA Software and Version:</b>	GaBi v6
<b>LCA Dataset:</b>	GaBi Service Pack 34
<b>Action Plan Creation Date:</b>	August 1, 2021
<b>Action Plan Expiration Date:</b>	December 31, 2023 or until publication of revised product-specific EPD
<b>Is this Action Plan applicable to all products listed in the corresponding EPD, or only a subset?</b>	Yes, all products

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<p>Summary of Largest Life Cycle Impacts identified in the Analysis</p>	<h3>Interface Carpet Tile   Lifecycle Carbon Impacts</h3> <p>GREENHOUSE GAS EMISSIONS ARE PREDOMINANTLY FROM RAW MATERIALS</p>  <p><i>*Note: Use phase for commercial carpet is 7 years on average</i></p>											
	<p>Analysis data taken from 2019 Global Carbon Neutral Floors LCA data.</p>											
<p><b>Narrative Description of the Impact Areas Targeted for Reduction</b></p>	<p>Analysis of LCA data shows that over half of the GWP impact of making this product is in the Raw Material Extraction and Process stage (A1). Therefore, the greatest opportunity for substantial reduction of GWP is in changing the type of raw materials used in the formulation to lower GWP materials or working with suppliers to change the GHG intensity of the processes used to extract and process the raw materials used to make our carpet tile. We estimate that planned reformulation of our carpet tile to replace higher GWP raw materials with lower GWP materials will reduce product GWP by at least 20% by January 2022.</p>											
<p><b>Specific steps</b></p>	<table border="1"> <thead> <tr> <th><b>Optimization Description</b></th> <th><b>Responsible Team</b></th> <th><b>Timeline</b></th> </tr> </thead> <tbody> <tr> <td>Engage suppliers, model changes in LCA software, and test new lower footprint materials</td> <td>Procurement/R&amp;D/Manufacturing</td> <td>By December 2021</td> </tr> <tr> <td>Incorporate lower GWP raw materials into standard products</td> <td>R&amp;D / Manufacturing</td> <td>By December 2021</td> </tr> </tbody> </table>	<b>Optimization Description</b>	<b>Responsible Team</b>	<b>Timeline</b>	Engage suppliers, model changes in LCA software, and test new lower footprint materials	Procurement/R&D/Manufacturing	By December 2021	Incorporate lower GWP raw materials into standard products	R&D / Manufacturing	By December 2021		
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<p><b>This Action Plan was prepared by:</b></p>	 <p>Aidan Ganzert, Life Cycle Assessment Specialist, Interface, Inc</p>											

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<p>This Action Plan was confirmed by:</p>	 Lisa Conway, VP, Sustainability, Interface Americas