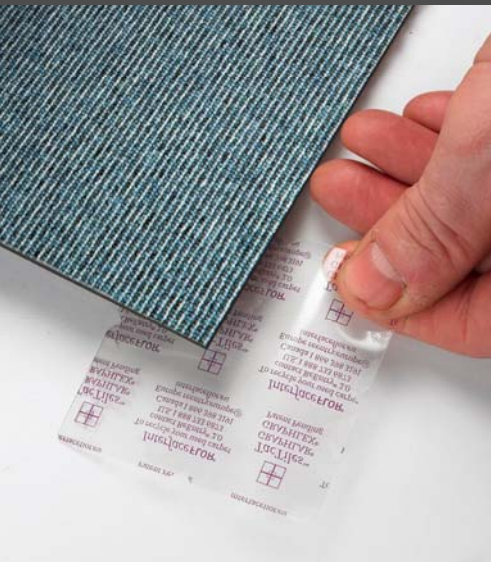




Environmental Product Declaration

according to ISO 14025



Interface **FLOR** Microtuft modular carpet

Elevation II

contains pre-consumer recycled material (backing)



LCA -calculation and support:
Gemeinschaft umweltfreundlicher Teppichboden e.V.

Declaration number
EPD-IFF-2010211-E

Institut Bauen und Umwelt e.V.
www.bau-umwelt.com





Institut Bauen
und Umwelt e.V.

		<p style="text-align: center;">Short version Umwelt-Produktdeklaration <i>Environmental Product Declaration</i></p>
<p>Institut Bauen und Umwelt e.V. www.bau-umwelt.com</p>		<p style="text-align: center;">Program operator</p>
<p>Gemeinschaft umweltfreundlicher Teppichboden (GUT) e.V. Schönebergstr. 2; 52068 Aachen; mail@gut-ev.de www.gut-ev.org</p>		<p style="text-align: center;">Program facilitator</p>
<p>InterfaceFLOR Europe Scherpenzeel, 3925 ZG. The Netherlands www.interfaceflor.eu</p>		<p style="text-align: center;">Declaration holder</p>
<p>EPD-IFF-2010211-E</p>		<p style="text-align: center;">Declaration number</p>
<p>Microtuft modular carpet having a surface pile made of 100 % solution-dyed polyamide 6 and a Graphlex® backing system with minimum 67% pre-consumer recycled content.</p> <p>This declaration is an Environmental Product Declaration according to /ISO 14025/ and describes the environmental performance of the floor coverings indicated herein. It is designed to foster the development of ecological and healthy building. In this validated declaration, all relevant environmental data are disclosed. The declaration is based on the PCR document "Floor coverings", year 2008-01.</p>		<p style="text-align: center;">Declared building product</p>
<p>This validated declaration authorises the use of the official stamp of the Institut Bauen und Umwelt (IBU). It is valid for a period of three years from the date of issue exclusively for the indicated product with the valid PRODIS licence "Elevation II" 13DDB10A. The contents and validity of the licence may be checked online via www.pro-dis.info. The owner of the declaration shall be liable for the underlying information and verifications.</p>		<p style="text-align: center;">Validity</p>
<p>The declaration is complete and furnishes details of:</p> <ul style="list-style-type: none"> - the product definition and relevant building-physics-related information - the raw materials and origin of the raw materials - the descriptions of the product manufacture - the information on product processing - the information on the use stage, extraordinary influences and end-of-life stage - the results of the life cycle assessment - the description of the benefits beyond system boundaries 		<p style="text-align: center;">Content of the declaration</p>
<p>24 February 2010</p>		<p style="text-align: center;">Date of issue</p>
		<p style="text-align: center;">Signatures</p>
<p>Prof. Dr.-Ing. Horst J. Bossenmayer (President of Institut Bauen und Umwelt)</p>		
<p>This declaration and the rules on which it is based have been examined in accordance with /ISO 14025/ by the independent Committee of Experts (CoE).</p>		<p style="text-align: center;">Examination of the declaration</p>
		<p style="text-align: center;">Signatures</p>
<p>Prof. Dr.-Ing. Hans-Wolf Reinhardt (Chairman of the CoE)</p>		
		<p style="text-align: center;">Signatures</p>
<p>Dr. Eva Schmincke (CoE-appointed Examiner)</p>		



Short version
**Umwelt-
Produktdeklaration**
*Environmental
Product Declaration*

<p>The declaration covers a group of textile floor coverings having the following features:</p> <p>Kind of manufacture: Ultra low pile tufted using microtuft technology Surface pile material: 100 % solution-dyed polyamide 6 , Back coating: Graphplex® backing system with min 67% pre-consumer recycled content</p> <p>Subject to the weight of the surface pile, Microtuft modular carpet is classified in accordance to luxury and use classes as described in EN 1307::</p> <p>Luxury Classification LC1 </p> <p>Use classification 33 - Commercial areas with heavy traffic ... </p>	Product description
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<p>As indicated on the PRODIS label, the textile floor covering may be used in the commercial area. Suitability for additional uses is also indicated on the PRODIS label (www.pro-dis.info).</p>	Range of application
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<p>The Life Cycle Assessment (LCA) was carried out according to /ISO 14040/ seq. following the requirements of the IBU guideline for type III declarations. The data reference consisted of specific data provided by GUT member companies and of data from the “GaBi 4” database. Specific product data for this declaration originate from InterfaceFLOR (the manufacturer) and its suppliers</p> <p>The life cycle assessment covers</p> <ul style="list-style-type: none"> – Part 1: Production stage including the supply chains (from cradle to factory gate) – Part 2: Delivery/installation, use – Part 3: End-of-life stage 	Scope of the life cycle assessment
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Result of the life cycle assessment

Table 1: Results of the LCA for Microtuft modular carpet PA 6 from InterfaceFlor

Categories evaluated	Unit per m ²	Part 1 Production stage	Part 2		Part 3 End-of-life stage
			Delivery and installation	Use (1 year)	
Primary energy not renewable	[MJ]	163.5	2.5	3.8	-48.8
Primary energy renewable	[MJ]	7.2	6.7·10 ⁻⁴	0.3	-0.4
Greenhouse potential (GWP 100)	[kg CO ₂ -eqv.]	7.8	0.35	0.2	4.2
Ozone degradation potential (ODP)	[kg R11-eqv.]	6.2·10 ⁻⁷	-3.0·10 ⁻¹⁰	4.0·10 ⁻⁸	-2.6·10 ⁻⁸
Acidification potential (AP)	[kg SO ₂ -eqv.]	2.6·10 ⁻²	1.5·10 ⁻³	7.7·10 ⁻⁴	5.1·10 ⁻³
Nutrication (NP)	[kg PO ₄ -eqv.]	4.5·10 ⁻³	2.6·10 ⁻⁴	9.1·10 ⁻⁵	9.8·10 ⁻⁴
Photochemical oxidant formation (POCP)	[kg ethene-eqv.]	3.4·10 ⁻³	1.3·10 ⁻⁴	6.2·10 ⁻⁵	1.2·10 ⁻⁴

The results are based on the life cycle assessment for textile floor coverings conducted by **Gemeinschaft umweltfreundlicher Teppichboden (GUT) e.V.**, Aachen, in cooperation with: **Textile and Flooring Institut GmbH**, Aachen, critically reviewed by: **Prof. Dr. Walter Klöpffer**, Int. Journal of Life Cycle Assessment, LCA CONSULT & REVIEW, Frankfurt a.M., **Dipl. Natw. ETH Roland Hischier**, Head of unit LCA, EMPA, St Gallen

<p>In addition, the following tests are represented in the environmental declaration:</p> <p>VOC emissions GUT product testing criteria based AgBB scheme for the evaluation of emissions from building products,</p> <p>Tests for contaminants GUT product testing criteria</p>	Verifications and tests
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