# LEED Profile Laminate Flooring

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# PARADOR

### **Information Booklet**

### Information Booklet for «Leadership in Energy and Environmental Design» (LEED)



#### Publisher

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#### Structure of the Document

This document contains the data on a building material / building product that is relevant for the LEED system. It is primarily intended to support planners and architects in obtaining the product information needed for their purposes with reasonable effort.

Product properties are placed in the context of LEED evaluation as part of an evaluation. Applicable individual criteria are identified and transferred at building level. In this way, the potential LEED points are determined.

#### **LEED Version**

LEED certification system, Building Design and Construction (BD+C) in version 4 (last updated: 04/2017).

Date of issue November 10<sup>th</sup>, 2017

**Validity** November 9<sup>th</sup>, 2020

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### **1** General Information

The «Leadership in Energy and Environmental Design» (LEED) certification system serves to objectively describe and evaluate the sustainability of buildings and quarters. It was developed by the non-profit organization USGBC (U. S. Green Building Council). All LEED certification is based on the U. S. standards according to ASHRAE (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.). The quality is evaluated in a comprehensive sense, over the entire life cycle of the building. The LEED certification system is internationally applicable. Due to its flexibility, it can be applied precisely to different building uses.

### Types and categories of use

The following types and categories of use according to LEED v4 are covered by this profile:



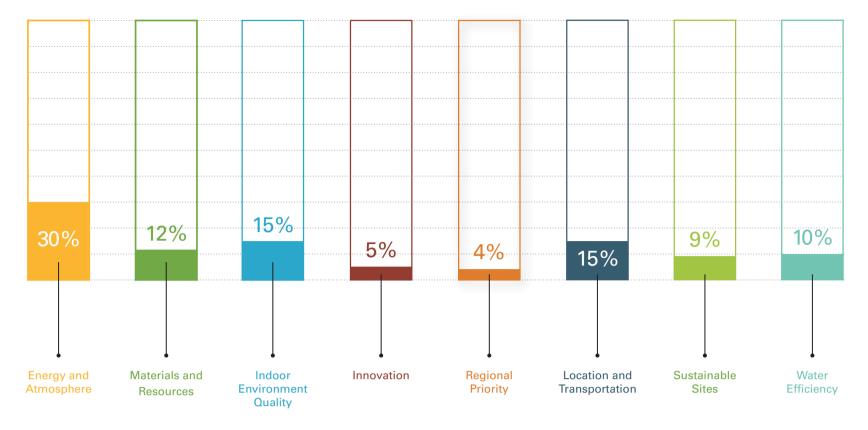
In sum, there can be a maximum of 110 points in every use category.

### Valuation categories and their weighting

The usage type «Building Design and Construction (BD+C)» contains the category «New Construction (NC)» with the following valuation categories:



#### As a result, the following weighting holds for the category «New Construction (NC)»:

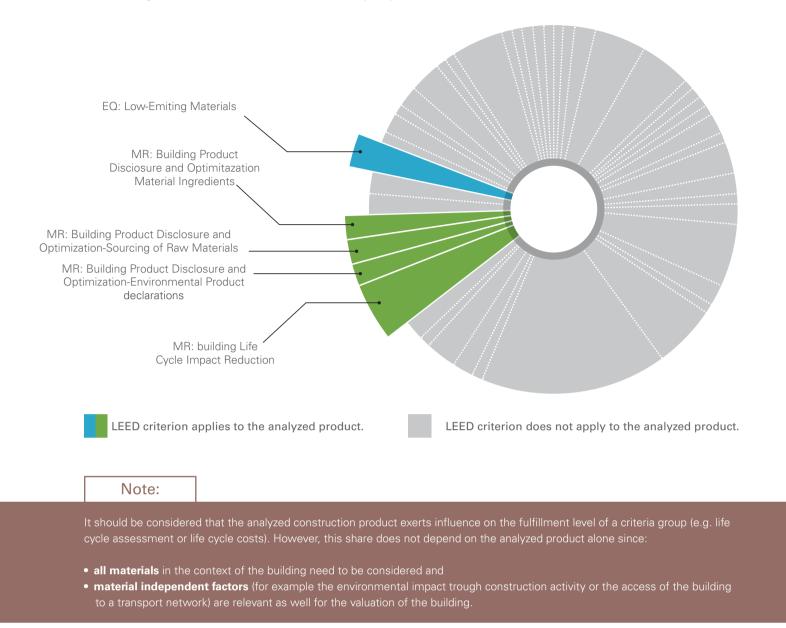


Each of the rating categories listed is subdivided into several individual criteria, which provide the total points of a rating category. There are also individual criteria that form the prerequisite for awarding a LEED certificate. The valuation category «Materials and Resources (MR)» is subdivided as follows:

0	0	0	Material and Resources (MR)		13
Y			Prereq	Storage and Collection of Recyclables	Required
Y			Prereq	Construction and Demolition Waste Management Panning	Required
•	•	•	Credit	Building Life-Cycle Impact Reduction	5
•	•		Credit	Building Product Disclosure and Optimization- Environmental Product Declarations	2
•	•		Credit	Building Product Disclosure and Optimization- Sourcing of Raw Materials	2
•	•		Credit	Building Product Disclosure and Optimization- Material Ingredients	2
			Credit	Construction and Demolition Waste Management	2

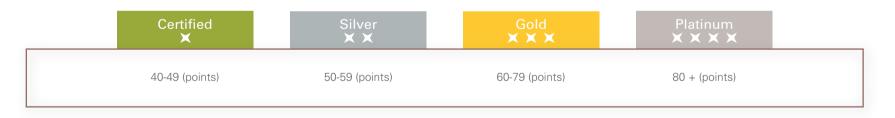
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Credit Construction and Demolition Waste Management 2



### LEED levels of certification

The LEED valuation method awards the following levels of certification, based on a maximum of 100 (+10 bonus) possible points:



The LEED certification of a building is the publicly reported expression of its ecological value especially to investors, tenants and residents. Sustainable buildings reduce the strain on the environment, have significantly lower running costs and a higher comfort. They increase the standard of living and the overall value of the property.

# 2 Results Overview

### Influence on LEED criteria

#### **Materials and Resources**



	Building Life - Cycle Impact Reduction							
Option 4:	Whole-Building Life-Cycle Assessment Life cycle assessment in accordance with ISO 14040 for laminate flooring is provided							
Building Product Disclosure and Optimization - Environmental Product Declarations								
Option 1:	Environmental Product Declaration (EPD): Product specific EPD, Type III Valuation as an entire product							
Option 2:	Multi-Attribute Optimization Below the industry average in at least three categories (environmental impacts)							
Building Product Disclosure and Optimization - Sourcing of Raw Materials								
Option 2:	Leadership Extraction Practices FSC certificate exists Valuation is based on 100 % of the costs							
Building Product Disclosure and Optimization - Material Ingredients								
Option 2:	<ul> <li>Material Ingredient Optimization</li> <li>International Alternative Compliance Path – REACH optimization:</li> <li>The product contains no ingredients which fulfill the REACH criteria for substances of very high concern.</li> <li>Valuation is based on 100 % of the costs</li> </ul>							



### **3** Detailed Results

**Materials and Resources** 



Building Life-Cycle Impact Reduction

Option 4: Whole-Building Life-Cycle Assessment

In the case of new buildings (buildings or sections of buildings), the structure and shell of a project must be subjected to an LCA, demonstrating that a reduction of at least 10% has been achieved compared to a reference building in at least three of the following six impact categories (one of which must be the greenhouse potential). No impact category assessed as part of the LCA may achieve an increase of more than 5% compared to the reference building.

Requirements: Life cycle assessments of the building products actually used:

- An EPD declaration in accordance with EN 15804 is provided by the manufacturer (see chapter 3).
- The ecological life cycle analysis at building level is supported on the basis of verified life cycle assessments according to ISO 14040/44.

Building Product Disclosure and Optimization (Environmental Product Declarations)					
Option 1: Environmental Product Declaration (EPD) Product specific EPD, Type III:					
Source	EPD-PAR-20130290-IBC2				
Reference unit	1 m <sup>2</sup> laminate flooring manufactured by PARADOR				
Declared unit	1 m²				
Standards: ISO 14025, 14040/44 and EN 15804 Product is weighted at 100 %					
<ul> <li>Option 2: Multi-Attribute Optimization</li> <li>The following three categories (environmental impacts) are lower than the industry average:</li> <li>global warming potential (greenhouse gases), in CO2 equivalent;</li> <li>acidification of land and water sources, in moles H+ or kg SO2;</li> <li>depletion of nonrenewable energy resources, in MJ.</li> </ul>					
Source: LEED verification, brands & values GmbH					
Building Product Disclosure and Optimization - Sourcing of Raw Materials					

FSC certificate number

TT-COC-004775

Valid to 30/11/2023

> Valuation is based on 100 % of the costs

Option 2: Optimization of the ingredients of materials

International Alternative Compliance Path – REACH Optimization. The product does not contain any substances listed in the Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list.

Valuation is based on 100 % of the costs

#### Indoor Environmental Quality (EQ)



Low-emitting materials

Option 1: Product Category Calculations

LEED thresholds of compliance with emissions and content standards:

Category	Threshold	Emissions and content requirements	
Flooring 100 %		General Emissions Evaluation	
> Emission tests	ducts meet the following require according to the AgBB scheme a -emitting formaldehydes (ULEF)	are available	
TVOC value accord	ing to the AgBB scheme	after 28 days 35 µg/m³	
Formaldehyde value according to AgBB scheme		after 28 days 10 µg/m³	
	Note:		
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# **4 Life Cycle Information**

The product lifecycle is modelled and evaluated through a life cycle assessment:



EPD standard	EN 15804; ISO 14025
Program holder	Institut Bauen und Umwelt e.V.
Declaration number	EPD-PAR-20130290-IBC2
Valid to	2018/12/18
Declared unit	1 m² laminate flooring
Specific weight	7,45 kg/m²

Further product and location-specific information can be found in the EPD.

The EPD data has been published on various portals:

Institut Bauen und Umwelt e.V.
 Ökobau. dat of the German Federal Institute for Building, Urban and Spatial Research (BBSR)
 Website Parador

### **5** Certificates



Within the scope of LEED projects, corresponding certificates, brochures and other relevant documents are made available.

### PARADOR

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