

LEED Executive Summary Trespa® Meteon®

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For:
Trespa International B.V.

1 Premise

This document provides a quick overview of the compliance of the Trespa® Meteon® product with the applicable LEED requirements.

2 Product description

Trespa® Meteon® is a decorative high pressure compact laminate (HPL) board, consisting of layers of natural fiber material impregnated with thermosetting resins and one or two surface layers on one or on both sides with colours and decorative motifs.

A transparent top layer is added to the surface layer(s) and is treated using Trespa's unique in-house developed Electron Beam Curing (EBC) technology to enhance weather resistance and protection properties from the light.

These components are incorporated through a simultaneous application of heat and a high specific pressure to obtain a homogeneous and closed material with high density and an integrated decorative surface.

Trespa® Meteon® is a versatile cladding for innovative and functional ventilated facade systems, balconies and sunscreen solutions.

The panels do not contain substances listed in the SVHC (Substances of Very High Concern) list published on the ECHA website, in concentrations higher than 0.1 percent by mass, at the moment of publication of this document.

3 LEED®

LEED, acronym for Leadership in Energy and Environmental Design, is a voluntary certification system for the sustainability of buildings. The certification was developed in the United States by the USGBC (U.S. Green Building Council) in the 1990s.

This system is based on a series of minimum and mandatory requirements to obtain certification (prerequisites) and a series of optional ones, rewarded with a score (credits). These requirements are divided into the following categories: Integrative Process, Location and Transportation; Sustainable Sites; Water Efficiency; Energy and Atmosphere; Materials and Resources; Indoor Environmental Quality; Innovation; Regional Priority.

To achieve LEED certification, a project earns points by adhering to prerequisites and credits. The sum of the points achieved correspond to a level of LEED certification: Certified (40-49 points), Silver (50-59 points), Gold (60-79 points) and Platinum (80+ points).

LEED has been transforming the construction market by providing tools for the design and construction of sustainable buildings in line with the best international practices. Pursuing certification through the LEED protocol means promoting the design and construction of buildings with high environmental performance,

defining more stringent sustainability requirements and integrating the best practices and building and plant engineering technologies currently on the market into the project.

LEED certification is a globally recognized symbol of sustainability achievement, and it is backed by an entire industry of committed organizations and individuals paving the way for market transformation

The protocol is subject to periodic updates in order to adapt the rating system to the best building and engineering practices and technologies available on the market, raising the bar of minimum performance requirements. **Today, projects seeking the certification can pursue both the LEEDv4 and LEEDv4.1 versions.**

LEED is for all building types and all building phases including new construction, interior fit outs, operations and maintenance and core and shell. The following variations, intended as adaptation of the main rating systems are available:

- | LEED Building Design and Construction (BD+C) for new construction or major renovations; includes New Construction and Core & Shell, and also includes applications for Schools, Retail, Hospitality, Data Centers, Warehouses & Distribution Centers and Healthcare.
- | LEED Interior Design and Construction (ID+C) for complete interior fit-out projects; includes Commercial Interiors, and also includes applications for Retail and Hospitality.
- | LEED Existing Building Operation & Maintenance (O+M) for existing buildings that are undergoing improvement work or little to no construction; includes Existing Buildings, and also includes applications for Schools, Retail, Hospitality, Data Centers, and Warehouses & Distribution Centers.
- | LEED for Homes (H) for single family homes, low-rise multi-family (one to three stories) or mid-rise multi-family (four or more)
- | LEED for Neighborhood Development (ND) for new land development projects or redevelopment projects containing residential uses, nonresidential uses, or a mix.
- | LEED for Cities and Communities dedicated to interventions on entire cities or subsections of cities.

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In relation to the application of the panel, i.e. cladding panel for ventilated facade system, the relevant LEED rating systems are LEED Building Design and Construction (LEED BD+C), LEED Interior Design and Construction (LEED ID+C), LEED for Homes.

Below-mentioned documentation can be downloaded at the following link: www.trespa.info or available by sending a request to certification@trespa.com.

LEED Credit (LEEDv4)	Product contribution	Documentation available for compliance	Points contribution (towards)
MRC Building Product disclosure and Optimization – EPD, option 1	Trespa® Meteon® has several Environmental Product Declarations (EPDs) published by the program operator EPD International AB.	EPD	1 point
MRC Building product disclosure and optimization - Sourcing of raw materials, option 2	Trespa® has chain of custody certificates according to the FSC® (Forest Stewardship Council) and PEFC (Programme for Endorsement of Forest Certification schemes) standard. The product can be valued at the biobased content percentage of its cost for the purpose of the credit calculation. Regarding the "Extended producer responsibility" option, Trespa started the "Trespa Second Life" program, aimed at fostering circular economy.	FSC and PEFC certificate	1 point
MRC Building Product disclosure and Optimization – Material ingredients, option 1	Trespa® Meteon® has published Health Product Declarations (HPDs). The document demonstrates product content inventory to 100ppm, according to GreenScreen benchmark.	Health Product Declaration (HPD)	1 point
MRC Environmentally preferable products, option 2	For the "wood products" option, Trespa® Meteon® is composed of renewable material from natural fibers (paper and/or wood). Trespa® has chain of custody certificates according to the FSC® (Forest Stewardship Council®) and PEFC (Programme for Endorsement of Forest Certification schemes) standard.	FSC and PEFC	1 point
MRC Integrative Analysis of Building Materials	LEED table required for the credit can be filled in with relevant information from multiple available documents regarding Trespa® Meteon® such as EPD, safety datasheet, HPD.	EPD, HPD and Product Safety Instruction of Use	1 point
MRC Building life-cycle impact reduction, option 4*	An Environmental Product Declaration (EPD) is available for the Trespa® Meteon® panel and this can therefore contribute to an overall analysis of the whole building LCA.	EPD	3 points

LEED Credit (LEEDv4)	Product contribution	Documentation available for compliance	Points contribution (towards)
EQc Low-emitting materials*	The Greenguard Gold certification obtained by the product is compliant with CDPH Standard Method v1.1-2010, and it is listed among the Low-Emitting Materials Third Party Certification table.	Greenguard Gold	3 points
EQc Acoustic Performance*	Trespa® Meteon® can contribute ventilated façade stratigraphy. Test reports and related certificates available.	Acoustic test reports	1 point
EAp Minimum Energy Performance * EAc Optimize Energy Performance*	Trespa® Meteon® can offer a contribution to the thermal performance of the building envelope. In particular, it can be applied in ventilated façade systems.	Material Property Data Sheet Case Studies	18 points

Credits contribution for credits marked with “*” is indirect.

LEED Credit (LEEDv4.1)	Product contribution	Documentation Available for compliance	Points contribution (towards)
MRc Environmental Product Declaration, option 1	Trespa® Meteon® has several Environmental Product Declarations (EPDs) published by the program operator EPD International AB.	EPD	1 point
MRc Sourcing of raw materials	<p>Trespa® has chain of custody certificates according to the FSC® (Forest Stewardship Council) and PEFC (Programme for Endorsement of Forest Certification schemes) standard. The product can be valued at the biobased content percentage of its cost for the purpose of the credit calculation.</p> <p>Trespa® Meteon® has the USDA Certified Biobased Product Label; the product can be valued at 50% of cost multiplied by the biobased content of the product for the purposes of credit achievement calculation.</p> <p>Regarding the "Extended producer responsibility" option, Trespa started the "Trespa Second Life" program, aimed at fostering circular economy.</p>	<p>FSC and PEFC</p> <p>USDA Certified Biobased Product Label</p>	2 points
MRc Material ingredients, option 1	Trespa® Meteon® has published Health Product Declarations (HPDs). The document demonstrates product content inventory to 100ppm, according to GreenScreen benchmark.	Health Product Declaration (HPD) and GreenScreen	1 point
MRc Environmentally preferable products, option 2	For the "wood products" option, Trespa® Meteon® is composed of renewable material from natural fibers (paper and/or wood). Trespa® has chain of custody certificates according to the FSC® (Forest Stewardship Council®) and PEFC (Programme for Endorsement of Forest Certification schemes) standard.	FSC and PEFC	1 point
MRc Integrative Analysis of Building Materials	LEED table required for the credit can be filled in with relevant information from multiple available documents regarding Trespa® Meteon® such as EPD, safety datasheet, HPD.	EPD, HPD and Product Safety Instruction of Use	1 point
MRc Building life-cycle impact reduction, option 2*	An Environmental Product Declaration is available for the the Trespa® Meteon® panel and this can therefore	EPD	4 points

LEED Credit (LEEDv4.1)	Product contribution	Documentation Available for compliance	Points contribution (towards)
	contribute to an overall analysis of the whole building LCA.		
EQc Low-emitting materials*	The Greenguard Gold certification obtained by the product is compliant with CDPH Standard Method v1.1-2010.	Greenguard Gold	3 points
EQc Acoustic Performance*	Trespa® Meteon® can contribute ventilated façade stratigraphy. Test reports and related certificates available.	Acoustic test reports	1 point
EAp Minimum Energy Performance* EAc Optimize Energy Performance*	Trespa® Meteon® can offer a contribution to the thermal performance of the building envelope. In particular, it can be applied in ventilated façade systems.	Material Property Data Sheet Case Studies	18 points

Credits contribution for credits marked with “*” is indirect.