

Environmental Product Declaration



In accordance with ISO 14025:2006, ISO 21930:2017 and EN 15804:2012+A2:2019/AC:2021 for:

Mecho non-PVC Shade Cloths

from

Mecho



Programme:

Programme operator:

EPD registration number:

Publication date:

Revision date (version 1.1):

Valid until:

The International EPD® System, www.environdec.com

EPD International AB; EPD is registered through aligned regional hub: EPD North America (www.epdna.com)

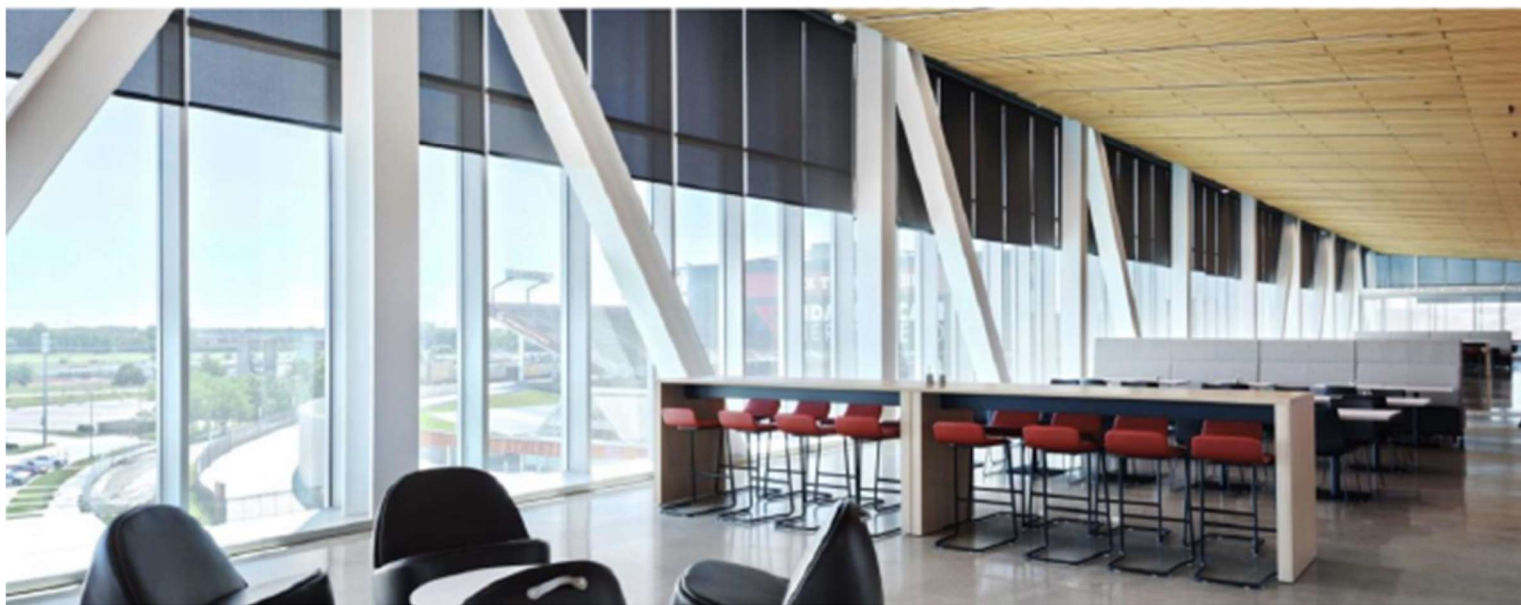
S-P-09254

2023-07-31

2023-09-18

2028-07-31

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com



General information

Programme information

Programme:	The International EPD® System
Address:	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden
Website:	www.environdec.com
E-mail:	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

CEN standard EN 15804 and ISO 21930 serve as the Core Product Category Rules (PCR)

Product Category Rules (PCR): Construction Products, 2019:14, version 1.11 and UN CPC code 26890

PCR review was conducted by: The Technical Committee of the International EPD® System. A full list of members available on www.environdec.com. The review panel may be contacted via info@environdec.com.

Life Cycle Assessment (LCA)

LCA accountability: Nicholas Hammond, Chandler Jacobson; WAP Sustainability Consulting

Third-party verification

Independent third-party verification of the declaration and data, according to ISO 14025:2006, via:

☒ EPD verification by individual verifier

☐ INTERNAL

☒ EXTERNAL

Third-party verifier: James Mellentine, Thrive ESG



Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes

☒ No

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804 or ISO 21930, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data; apply equivalent data quality requirements, methods of data collection, and allocation methods; apply identical cut-off rules and impact assessment methods (including the same version of characterization

factors); have equivalent content declarations; and be valid at the time of comparison. For further information about comparability, see EN 15804, ISO 21930, and ISO 14025.

Company information

Owner of the EPD: Mecho

Contact: Amy Bohnenkamp sustainability@mechoshade.com

Description of the organization: Mecho has been committed to pushing the boundaries of invention, blazing new trails in solar shade design. From the original clutch operated solar shade to our automated motorized shading systems, Mecho continues to defy convention in the commercial shade industry.

Mecho has been a trusted leader in sustainable window shade solutions for commercial spaces. All products are engineered with health, wellness, and circularity in mind. Mecho has been a leading innovator with Cradle to Cradle, considered one of the most rigorous certifications for sustainable products. We achieved the first Cradle to Cradle (C2C) certification for a manual shade in 2004, and in 2022 earned the first certified motor of any product category, combined for an industry-first C2C motorized roller shade system. Our product line prioritizes supply chain and material transparency verified with several other material health programs including Health Product Declarations and Declare.

Product-related or management system-related certifications: No product-related or management system-related certifications are declared.

Location of production site(s): Reynosa, MX

Product information

Product name: Mecho non-PVC Shade Cloths including:

AcoustiVeil, Chelsea Blackout, EcoSheer 6750 Series, EcoSheer 6850 Series, EcoVeil 1350 Series, EcoVeil 1550 Series, EcoVeil 1750 Series, Equinox Blackout

Product identification: CSI division 12-20-00

Product description: Mecho non-PVC shade cloths are made of at less than 50% PVC and are intended for a variety of solar shade applications. These indoor solar shades offer a clean aesthetic that allows for daylight and heating control. Products range in thickness and openness depending on the end requirements of the consumer.

UN CPC code: 26890

Geographical scope: The geographical scope of the raw material acquisition is North America, Asia, and Europe. The geographical scope of the manufacturing portion of the life cycle is North America. Distribution from the manufacturing location is to the United States. The end of life (disposal of the product) occurs within the United States.

Multiple products: Products listed under the product name are included. Products which are similar enough according to ISO 21930 to be grouped together as one sets of results have been, as is clearly defined in the results section, below. Within each product group defined in this report, a representative product was chosen. The representative product was defined as the product of median weight within the specific product group.

LCA information

Declared unit: One (1) m² of cut window shade fabric.

Reference service life: As this is a cradle-to-gate with options study, a reference service life (RSL) is not declared.

Time representativeness: Primary data were provided by the manufacturer and represent all information for calendar year 2021.

Database(s) and LCA software used: MLC Database 2023.1 and LCA FE 10.7 software.

Description of system boundaries: Cradle to gate with options, modules A4-A5, modules C1-C4, module D. Use modules (B1-B7) were excluded. Use modules were excluded because the use stage for these products (comprised of opening and closing the shade system) requires only manual energy which would be attributed to the mounting system. Additionally, the cleaning requirements for these products are minimal and cannot be quantified.

System diagram:



Manufacturing:

- Rolls of finished fabric received.
- Fabric is cut to specific order size.
- Fabric is hemmed.
- Fabric is packaged and shipped to installation site.

Electricity: The electricity is sourced from the power grid, and no onsite electricity generation is used. Sub-meter specific electricity values were not available from the manufacturing facility. Annual electricity consumption was normalized to the declared unit of one meter squared of fabric using the allocation methodology described below. The emissions associated with the Mexico Grid Mix as used in the LCA are 0.636 kg CO₂ eq per kWh using the GWP-GHG impact assessment methodology.

End of life: At the product's end of life, the fabric is assumed to be manually taken down and 100% of the product is sent to landfill as mixed waste.

Assumptions: Throughout this study, value choices and judgements that may have affected the LCA have been described. Additional decisions are summarized below:

- The inclusion of overhead energy data was determined appropriate due to the inability to sub-meter and isolate manufacturing energy from overhead energy.