

Additional requirements

Greenhouse gas emissions from the use of electricity in the manufacturing phase

National production mix from import, low voltage (production of transmission lines, in addition to direct emissions and losses in grid) of applied electricity for the manufacturing process (A3).

Electricity mix	Data source	Amount	Unit
Electricity, Malaysia (kWh)	ecoinvent 3.3 Alloc Rec	861,04	g CO2-ekv/kWh

Dangerous substances

The product contains no substances given by the REACH Candidate list.





Indoor environment

The declared product is emission tested by RISE Research Institutes of Sweden/SP Technical Research Institute of Sweden or Eurofins in accordance with California Department of Public Health (CDPH) Standard Method v1.2–2017.

Bibliography

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 ISO 14044:2006 Environmental management - Life cycle assessment - Requirements and guidelines.
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 ISO 21930:2017 Sustainability in buildings and civil engineering works - Core rules for environmental product declarations of construction products.
 IBU PCR Part B: Requirements on the EPD for Coatings with organic binders. v1.4, September 2016.
 Vold et al (2017). EPD and LCA tool for Jotun - Technical description and background information, OR 01.17, Ostfold Research, Fredrikstad 2017.
 CEPE v3.0 Raw materials LCI database for the European coatings and printing ink industries, May 2016.
 ecoinvent v3.2 Alloc Rec, Swiss Centre of Life Cycle Inventories.

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 BREEAM International (2016): BREEAM International New Construction Technical Manual. SD233-2.0:2017
 CARB SCM (2007): California Air Resources Board (CARB) Suggested Control Measure for Architectural Coatings
 CDPH method 1.2 (2017): Standard method for the testing and evaluation of volatile organic chemical emissions from indoor sources. California Department of Public Health
 EU Directive 2004/42/CE: The limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products
 ISO 16000-series of indoor air standards for VOCs sampling and determination, i.e. ISO 16000-3, 6(2011); 9, 10, 11(2006)
 LEED® v4: LEED® v4 for Building design and construction, U.S. Green Building Council®
 REACH (2006): Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006. REACH Authorization list – Annex XIV, the Restriction list – Annex XVII and the SVHC candidate list

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