Environmental Product Declaration summary sheet

15mm LaDura

Etex Building Performance Limited.

Published 10/31/2023

Product description

15mm LaDura is a gypsum hard board which offer an alternative to traditional gypsum fibreboards. Made from high-density gypsum core reinforced with wood fibres, the board is stronger, harder and heavier than other plasterboards, giving greater impact and pull-out resistance. LaDura combines fire, moisture and impact resistance and provides a superior finish. It has been designed for durability in busy, high traffic areas which are intensively used, or prone to abnormal or rough use including schools, hospitals and hotel corridors. It is made of aerated calcium sulphate di-hydrate with fillers, glass fibres, wood fibres (~5% of dry mass) and hydrophobic additives enclosed inside liners made from recycled wastepaper with bound edges. Core and papers are bonded with starch. LaDura is coloured white / grey on both faces and has tapers down the long edges. Wood particles (size from 0 to 3 mm) are visible in the core. The board complies with BS EN 520:2004+A1:2009 Type D, E, F, H1, I and R.

Declared/Functional Unit

Results below are related to the production and installation of 1m² of board installed vertically by mean of mechanical fixings, offering a seamless finished substrate ready to receive additional finishing solutions. The mass of the declared unit is 15 kg.

EPD Program operator	EPD Hub
EPD registration no.	HUB-0812
Validity period	31/10/2023 - 31/10/2028
Followed standards for LCA/EPD	EN 15804+A2 & ISO 14025 / ISO 21930

LCI Database/ Calculation date	OCLCA 2023 + Ecoinvent 3.8
Geographical scope	UK
EPD owner	Etex Building Performance Limited
Reference year of production date	2022

Key Assessment Results

CARBON FOOTPRINT	**Total Global Warming Potential (GWP)** including fossil, biogenic and luluc GWP
Cradle to gate [A1–A3]	1,87 kgCO2 –Eq./m²
Upfront carbon* - [A1-A3, A4, A5]	2,8 kgCO2 –Eq./m²
Embodied Carbon* - [A1-A3, A4, A5, B1-B5, C1-C4]	4,85 kgCO2 –Eq./m²
CIRCULARITY	**Use of secondary material (SM)** refers to any material recovered from previous use or from external waste which substitutes primary materials.
Cradle to gate [A1–A3]	40,6 % [6,09 kg/m²]

*: upfront and embodied carbon are defined in "Whole life carbon assessment for the built environment", 2nd edition, published by the Royal Institution of Chartered Surveyors (RICS). A0 has not considered.

Note : we have considered in the EOL scenario that 29% share of gypsum boards from post-consumer demolition wastes are going to recycling at end of life (e.g. a similar share of post-consumer recycled gypsum is used in module A1). The remaining 71% share is going to landfill.

Upfront carbon															
Product (cradle to gate)			**Construction**		**Building maintenance and use - B**							**Building End of Life - C**			
A1	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**
Raw Material	RM Transport to Factory	Manufacture products	Transport to site	Construction of the building	Use	Maintenance	Repair	Replacement	Refurbishment	Energy use for Building usage	Water Use for Building usage	Demolishing the building	Haul away waste materials	Recycling	Disposal
Embodied carbon												Embodied carbon			

For the full EPD, visit: https://manage.epdhub.com/?epd=HUB-0812

Please check that this is the current version by visiting the Siniat website.
For archived versions please contact technical services.

inspiring ways of living