CERTIFIED
ENVIRONMENTAL PRODUCT DECLARATION
UL.COM/EPD

EPD **Transparency Summary**

COMPANY NAME	**Composite Panel Association**
PRODUCT TYPE	**Wood Product**
PRODUCT NAME	Hardboard/Engineered Wood Siding and Trim
PRODUCT DEFINITION	Hardboard/Engineered Wood Siding (EWST) and Trim is a non-structural high density wood panel used in residential and commercial construction. These composite panels use industrial wood residue and are designed and manufactured to perform in applications with the appearance of traditional wood.
PRODUCT CATEGORY RULE (PCR)	North American Structural and Architectural Wood Production, FP Innovations Version 2 (UN CPC 31, NAICS 321), June 18, 2015
CERTIFICATION PERIOD	**5 years**
DECLARATION NUMBER	**4787549627.101.1**

300 DPI
CMYK

LIFECYCLE IMPACT CATEGORIES

The environmental impacts listed below were assessed throughout the product's lifecycle – including raw material extraction, transportation, manufacturing, packaging, use, and disposal at end of life.

	ATMOSPHERE			WATER		EARTH	
	Global Warming Potential refers to long-term changes in global weather patterns – including temperature and precipitation – that are caused by increased concentrations of greenhouse gases in the atmosphere.	**Ozone Depletion Potential** is the destruction of the stratospheric ozone layer, which shields the earth from ultraviolet radiation that's harmful to life, caused by human-made air pollution.	**Photochemical Ozone Creation Potential** happens when sunlight reacts with hydrocarbons, nitrogen oxides, and volatile organic compounds, to produce a type of air pollution known as smog.	**Acidification Potential** is the result of human-made emissions and refers to the decrease in pH and increase in acidity of oceans, lakes, rivers, and streams – a phenomenon that pollutes groundwater and harms aquatic life.	**Eutrophication Potential** occurs when excessive nutrients cause increased algae growth in lakes, blocking the underwater penetration of sunlight needed to produce oxygen and resulting in the loss of aquatic life.	**Depletion of Abiotic Resources (Elements)** refers to the reduction of available non-renewable resources, such as metals and gases, that are found on the periodic table of elements, due to human activity.	**Depletion of Abiotic Resources (Fossil Fuels)** refers to the decreasing availability of non-renewable carbon-based compounds, such as oil and coal, due to human activity.
TRACI	**658.48** kg CO2-Equiv.	**0.000** kg CFC 11-Equiv.	**90.02** kg O3 Equiv.	**6.39** kg SO2 Equiv.	**0.58** kg N-Equiv.	**5.04** kg	**12,869** MJ
CML	**N/A** kg CO2-Equiv.	**N/A** kg R11-Equiv.	**N/A** kg Ethene-Equiv.	**N/A** kg SO2-Equiv.	**N/A** kg Phosphate-Equiv.	**N/A** kg SB-Equiv.	

FUNCTIONAL UNIT The declared unit is 1 cubic meter (m3) of hardboard/EWST. This is equivalent to 35.31 cubic feet. The average density of North American harboard/EWST excluding moisture content is 768 oven dry kg/m3. Results are for a cradle-to-gate analysis and exclude use phase and end of life impacts.

MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Wood	Wood, oven dry	Renewable	94.01	US and Canada
Additives	Phenol-formaldehyde resin	Non-renewable	1.99	US and Canada
	Paraffin/was emulsion	Non-renewable	1.77	US and Canada
	Zinc borate	Non-renewable	0.90	US and Canada
	Other	Non-renewable	1.33	US and Canada

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	0 %
POST-CONSUMER RECYCLED CONTENT	0 %
VOC EMISSIONS	
WATER CONSUMPTION	10,054 L

RECYCLING OR REUSE

This is a business-to-business EPD, based on a cradle-to-gate LCA. The delivery of the product to the consumer, its use and eventual end-of-life processing are excluded from this EPD.

ENERGY

RENEWABLE ENERGY	57 %	16,965 MJ
NON-RENEWABLE ENERGY	43 %	12,869 MJ

STANDARDS

ANSI A135.4
ANSI A135.5
ANSI A135.6
ANSI A135.7
NAICS 321219

CERTIFICATIONS

MANUFACTURER CONTACT INFO

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