



EPD Transparency Summary

Schlage

COMPANY NAME

Lock

PRODUCT TYPE

B500 Series Locks

PRODUCT NAME

PRODUCT DEFINITION

B500 Series locks are single cylinder deadbolt used in both commercial and residential settings. Locks within this series are ANSI 156.36 Grade 2 products. The LCA for this EPD is based on an average product within the B500 Series line.

PRODUCT CATEGORY RULE (PCR)

Product Category Rule (PCR) for preparing an Environmental Product Declaration (EPD) for Product Group, Builders Hardware UL9004. Version: April 3rd, 2014.

CERTIFICATION PERIOD

March 10, 2016 - March 9, 2021

DECLARATION NUMBER

4787103471.103.1



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	1.22E+01	8.04E-10	4.83E-01	3.13E-02	3.47E-03	N/A	1.06E+01
CML	1.22E+01	7.48E-10	2.80E-03	2.84E-02	4.41E-03	1.51E-03	1.38E+02

FUNCTIONAL UNIT One average B500 Series Lock. The values above are the sum of modules A1-C4.





MATERIAL CONTENT

Material content measured to 1%.

COMPONENT	MATERIAL	AVAILABILITY	MASS%	ORIGIN
Lock Body	Zinc	Abundant, non-renewable	52%	US
Lock Body	Steel	Abundant, non-renewable	33%	US
Lock Body	Brass	Abundant, non-renewable	13%	US
Lock Body	Nickel	Abundant, non-renewable	3%	US
Lock Body	Bronze	Abundant, non-renewable	<1%	US
Others	Others	Abundant, non-renewable	<1%	US

ADDITIONAL ENVIRONMENTAL INFORMATION

PRE-CONSUMER RECYCLED CONTENT	Various %
POST-CONSUMER RECYCLED CONTENT	Various %
VOC EMISSIONS	0
WATER CONSUMPTION	7.37E+00

ENERGY

RENEWABLE ENERGY	0 %	MJ
NON-RENEWABLE ENERGY	100 %	MJ

MANUFACTURER CONTACT INFO

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RECYCLING OR REUSE

Schlage products may be recycled or reused at the end of life. The LCA that this EPD is created from takes the conservative approach by assuming that all products are disposed of within the system boundary. However, potential recycling is an option based on local availability.

STANDARDS

ANSI/BHMA A156.13-2012

Operational and Security, UL Listed for 3-hour re door

California State Reference Code: (Formerly Title 19, California State Fire Marshal Standard) All levers with returns comply; levers return to within 1/2" of door face.

CERTIFICATIONS

