

GreenCircle Certification System

GreenCircle Certified, LLC certifies that an independent, third-party evaluation has been conducted for:



Corbin Russwin, an ASSA ABLOY Group brand

ED5000 Mechanical Exit Device

Berlin, CT

This product meets all the necessary qualifications to be certified for the following claims:

	2015	2020	% Reduction
Global Warming Potential (kg CO ₂ eq per lock)	4.32×10^2	9.10×10^1	78%
Ozone Depletion Potential (kg CFC-11 eq per lock)	5.30×10^{-8}	6.50×10^{-10}	98%
Acidification Potential for Air Emissions (kg SO ₂ eq per lock)	3.07	3.4×10^{-1}	88%
Eutrophication Potential (kg N eq per lock)	1.81×10^{-1}	3.00×10^{-2}	83%
Photochemical Ozone Creation Potential (kg ethene eq per lock)	1.95×10^{-1}	4.50×10^{-2}	76%
Abiotic Depletion Potential - Elements (kg Sb eq per lock)	1.12×10^{-1}	9.40×10^{-4}	99%
Abiotic Depletion Potential - Fossil Fuels kg (MJ per lock)	5.32×10^3	1.00×10^3	81%

Corbin Russwin's Life Cycle Assessment (LCA) Optimized Certification was completed on October 1, 2022. The LCA Optimized Certification analysis compared Corbin Russwin's 2015 Environmental Product Declaration (EPD) for their ED5000 Mechanical Exit Device completed by Institut Bauen und Umwelt e.V. to the 2020 EPD completed by Sustainable Solutions Corporation.

The 2015 EPD and the 2020 EPD were prepared utilizing the IIBU: PCR Locks and fittings (mechanical & electromechanical locks & fittings), 07-2014 respectively. The 2015 EPD is cradle to gate with options. The 2020 EPD is cradle to grave. Both the 2015 and 2020 EPD's Program Operators were UL Environment.

The 2015 and 2020 LCAs were prepared using Gabi v6 software and Gabi v8.7 software, respectively. Both LCAs utilized the GaBi Database. The impact categories listed above, and subsequent optimization information comes from life cycle product stages A1 through A3 using the CML methodology for both the 2015 and 2020 EPD.

The analysis of the EPDs and documentation of material and operational changes to optimize the product stage (A1-A3) were third-party certified by GreenCircle. GreenCircle verified that the LCA and EPD were conducted per applicable standards (ISO 14040/14044, EN15084, EN 21930), and that proper documentation and evidence was provided by Corbin Russwin to verify the product optimization compared to 2015 EPD.

Corbin Russwin's [GreenCircle Certified Environmental Facts Label](#) documents the manufacturing reductions that attributed to the optimization.

These products are certified to meet the requirements of the LEED v4.1 Materials and Resources Building Product Disclosure and Optimization – Environmental Product Declaration Option 2 credit. The ED5000 Mechanical Exit Device product contributes two products or 200% of material cost for the LEED v4.1 credit. The reduction in embodied carbon and other life cycle impact categories can be attributed to improved tracking and organization of utility data, water usage reductions, and increased utilization of recycled materials.

To review Corbin Russwin's 2020 EPD for their ED5000 Mechanical Exit Device please click [HERE](#).

To review Corbin Russwin's GreenCircle Certified Environmental Facts Label please visit the GreenCircle Product Database [HERE](#).

Certification Number: 22-0358

Certification Period: April 1, 2022 - March 31, 2025

Referenced Standards: ISO14040, ISO14044, ASTM E1991-05, EN15084, EN 21930, LEED v4.1 BD&C

April 2021 Beta Guide

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Certification Officer

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