EPD

d line

Environmental Product Declaration

In accordance with ISO 14025:2006 and EN 15804:2012+A2:2019/AC:2021 for:

Lever handles

from

d line

Programme:	The International EPD® System, www.environdec.com
Programme operator:	EPD International AB
EPD registration number:	S-P-09168
Publication date:	2023-05-08
Valid until:	2028-05-07

An EPD should provide current information and may be updated if conditions change. The stated validity is therefore subject to the continued registration and publication at www.environdec.com

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Content

General Information

Programme information

Programme:	Address:	Website:	E-mail:
The International EPD® System	EPD International AB Box 210 60 SE-100 31 Stockholm Sweden	www.environdec.com	info@environdec.com

Accountabilities for PCR, LCA and independent, third-party verification

Product Category Rules (PCR)

Product Category Rules (PCR)
CEN standard EN 15804 serves as the Core Product Category Rules (PCR)

Product Category Rules (PCR): Construction products 2019:14 Version 1.2.5, 2022-11-20
UN CPC code of 42911

PCR review was conducted by: IVL Swedish Environmental Research Institute, Secretariat of the International EPD System.

Life Cycle Assessment (LCA)

LCA accountability: *Sigita Židonienė and Silvija Serapinaitė, Vesta Consulting www.vestaconsulting.lt*

Third-party verification

Independent third-party verification of the declaration and data, -according to ISO 14025:2006, via:

☒ EPD verification by individual verifier

Third-party verifier: *Prof. Ing. Vladimír Kočí, PhD., vladimir.koci@lca.cz*

Approved by: The International EPD® System

Procedure for follow-up of data during EPD validity involves third party verifier:

☐ Yes ☒ No

Additional info

The EPD owner has the sole ownership, liability, and responsibility for the EPD.

EPDs within the same product category but registered in different EPD programmes, or not compliant with EN 15804, may not be comparable. For two EPDs to be comparable, they must be based on the same PCR (including the same version number) or be based on fully-aligned PCRs or versions of PCRs; cover products with identical functions, technical performances and use (e.g. identical declared/functional units); have equivalent system boundaries and descriptions of data and etc. For further information about comparability, see EN 15804 and ISO 14025

Company Information

Owner of the EPD:
d line A/S | Jyllingevej 59, kld., 2720 Copenhahen | Denmark
T: +45 7212 0138 | E: info@dline.com

Contact:
Alius Jakušovas | Head of Products
M: +370 687 50525 | E: alj@dline.com

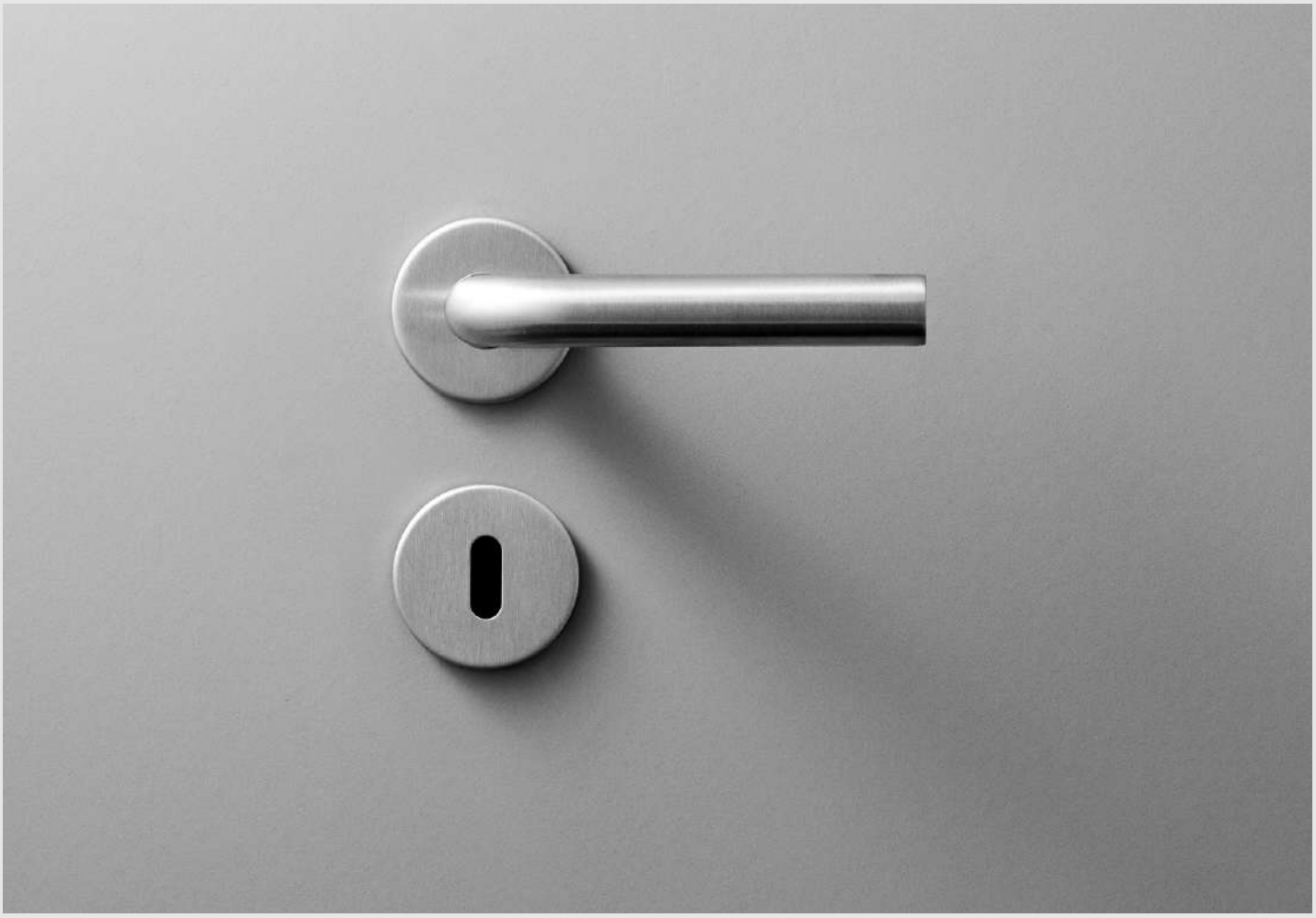
Description of the organisation:

d line is a heritage Danish design brand conceiving and hand crafting enduring architectural hardware, sanitary ware and solutions for barrier-free living.

Launched in 1971 with the coordinated line of stainless steel architectural products Knud Holscher created for St Catherine's College Oxford, d line has since collaborated with iconic Danish designers including Arne Jacobsen, Tom Dixon and Bjarke Ingels. The brand's ambition is to be universally known, coveted and admired for the uncompromising endurance of its design, craftsmanship and quality.

dline.com

Product-related or management system-related certifications:	Company is ISO certified with certification for ISO 14001:2015 (Environmental Standard).
Name and location of production site(s):	UAB d line production, J. Basanaviciaus 44, Kaisiadorys, LT-56134, Lithuania



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Product Information

Type of EPD:	This EPD is single company, product specific EPD that covers a group of products – lever handles, with reference product Lever handle AJ. Full range of products identified by items no are presented at the end of this EPD. Products listed differs by finishing colour, powder coating or shape. Some products due to the thickness or some variations in metals composition exceeds 10% rule, therefore the worst-case scenario, with reference product - lever handle (item no. 12404374001) as “worst case product” is declared.
Product name:	Lever handle AJ
Product identification:	Item no. - 12404374001
Product description:	Lever handle AJ small, SS
Product application:	Bathrooms, kitchens, living areas, public areas
Product standards:	Certified in accordance with EN1906 (class 4) Certified in accordance with EN1634
Technical specification:	Dimensions: 124x50x80mm Surface finish: satin finished
UN CPC code:	42911
Geographical scope:	Global

LCA Information

Functional unit / declared unit:	The declared unit is 1 kg of the product. Declared product mass is 0,498 kg.
Reference service life: [where applicable]	The service life according to producer is 20 years.
Time representativeness:	Primary data was collected internally. The production data refers to the average for the year 2021.
Database(s) and LCA software used:	The Ecoinvent database v.3.6 provides the life cycle inventory data for the raw and process materials obtained from the background system. The LCA software used is One Click LCA.
Description of system boundaries:	Cradle to gate with options, modules A4-B7, modules C1–C4 and module D.

Modules declared, geographical scope, the share of specific data (in GWP-GHG results) and data variation:

	Product stage			Construction process stage		Use stage							End of life stage				Resource recovery stage
	Raw material supply	Transport	Manufacturing	Transport	Construction installation	Use	Maintenance	Repair	Replacement	Refurbishment	Operational energy use	Operational water use	De-construction demolition	Transport	Waste processing	Disposal	Reuse-Recovery-Recycling-potential
Module	**A1**	**A2**	**A3**	**A4**	**A5**	**B1**	**B2**	**B3**	**B4**	**B5**	**B6**	**B7**	**C1**	**C2**	**C3**	**C4**	**D**
Modules declared	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Geography	GLO	GLO	LT	GLO	GLO	GLO	GLO	GLO	GLO	LT	GLO	GLO	GLO	GLO	GLO	GLO	GLO
Specific data used		>90%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – products		>10%		-	-	-	-	-	-	-	-	-	-	-	-	-	-
Variation – sites		0%		-	-	-	-	-	-	-	-	-	-	-	-	-	-

Description of the system boundary (X = Included in LCA; MND = Module Not declared; MNR = Module Not Relevant)

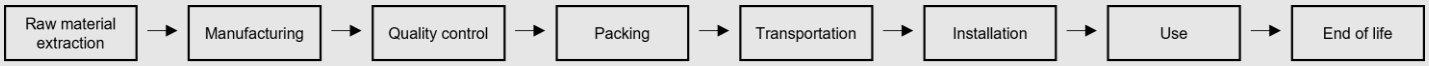
Data quality:

The foreground data collected internally is based on yearly production amounts and extrapolations of measurements on specific machines and plants. Overall, the data quality can be described as good. The primary data collection has been done thoroughly.

Cut-off criteria:

Life cycle inventory data for a minimum of 99% of total material and energy input flows have been included in the life cycle analysis. However, only materials having in summa less than 1% of the weight of the product were not used in calculations.

System diagram:



More information:

Product stage:

A1: This stage considers the extraction and processing of raw materials and energy consumption.

A2: The raw materials are transported to the manufacturing plant. In this case, the model includes road transportation of each raw material.

A3: This stage includes the manufacture of products and packaging. It also considers the energy consumption and waste generated at the production plant.

Production process description:

- Raw material extraction – Needed raw materials are supplied to be used like tubes, bars, metal sheets, etc.
- Manufacturing – In this stage, necessary production operations are made – turning, milling, cutting, stamping, grinding.
- Quality control – Manufactured parts are inspected by quality control manager visually and technically.
- Packing – Parts/products are securely packaged into the appropriate size boxes.

Construction process stage:

A4: This stage includes transport from the production gate to the construction site where the product shall be installed. Transportation is calculated based on data form manufacturer and a scenario with the parameters described in the following table. The transportation does not cause losses as products are packaged properly.

Parameter	Value/Description
Vehicle type used for transport	EURO 5 truck with a trailer with an average load of 16-32t Freight aircraft
Distance	59 % of production: Plane – 2157 km, 41 % of production: Truck – 1551 km.
Capacity utilization	100 % of the capacity in volume (truck, including empty return), 100 % of the capacity in volume (plain, including empty return)

A5: This module describes impacts related to installing the product to the building. Since this is a manual process, no energy or fuels is needed for instalation. Product packaging waste are declared.

Use stage:

B1, B3, B4, B6, B7: These modules were considered, but evaluated as not relevant for the product and considered as zero.

B2: Maintenance - covers the combination of all planned technical and associated administrative actions during the service life to maintain the product installed in a building, as well as preserve the aesthetic qualities of the product. The product needs to be cleaned on regular basis with dry soft cloth.

B5: Refurbishment – product service life is set to 20 years. After or during this warranty period, the product is offered to be refurbished to extend its life with another 20 years. In this phase, materials needed to refurbish 1 kg of product is declared. Read more on page 16.

End of Life stage:

C1: This module describes impacts related to dismantling the product at the product end-of-life stage. Since this is a manual process, the environmental impacts are negligible.

C2: This module describes the transport of discarded product to final disposal. It is estimated that there is no mass loss during the use of the product, therefore the end-of-life product is assumed that it has the same weight as the declared product. All the end-of-life product is assumed to be sent to the closest facilities such as recycling and landfill. Transportation distance to the closest disposal area is estimated as 50 km and the transportation method is lorry which is the most common.

C3: This module describes waste processing for reuse, recovery, or recycling. It is assumed that 90% or stainless steel, steel, aluminium and brass will be collected separately and transformed into secondary material in a recycling plant.

C4: The remaining 10% of metals and mounting plastic parts are assumed to be sent to the landfill.

Resource recovery stage (D):

D: The benefits of recyclable waste generated in the module C3 are considered in module D. The recycled stainless steel, steel, aluminium and brass has been modelled to avoid use of primary materials. The scrap content in the studied product has been acknowledged and only the mass of primary materials in the product provides the benefit to avoid double counting.

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Content information

Product components	Weight, kg	Post-consumer material, weight-%	Biogenic material, weight-% and kg C/kg
Stainless steel	0,815	24,4	0
Steel	0,097	56	0
Aluminium	0,036	45	0
Brass	0,040	31	0
PVC	0,012	0	0
TOTAL	1	28,2	0
Packaging materials	**Weight, kg**	**Weight-% (versus the product)**	
Plastic	0,006	0,6	
Cardboard	0,066	6,6	
TOTAL	**0,072**	**7,2**	

Products do not contain any REACH SVHC substances in amounts greater than 0,1% (1000 ppm).

Environmental Information

Potential environmental impact – mandatory indicators according to EN 15804

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-fossil	kg CO_2 eq.	7,84E0	5,88E-1	5,2E-3	0E0	0E0	0E0	0E0	2,96E0	0E0	0E0	0E0	4,54E-3	2,19E-2	2,91E-2	-1,07E0
GWP-biogenic	kg CO_2 eq.	9,57E-2	2,12E-4	3,28E-2	0E0	0E0	0E0	0E0	2,78E-2	0E0	0E0	0E0	3,3E-6	-1,26E-3	3,04E-6	5,66E-3
GWP-luluc	kg CO_2 eq.	1,97E-2	4,74E-5	3,73E-6	0E0	0E0	0E0	0E0	1,29E-2	0E0	0E0	0E0	1,37E-6	2,49E-5	3,25E-7	-3,12E-3
GWP-total	kg CO_2 eq.	7,95E0	5,85E-1	3,8E-2	0E0	0E0	0E0	0E0	3E0	0E0	0E0	0E0	4,55E-3	2,07E-2	2,91E-2	-1,07E+0
ODP	kg CFC 11 eq.	8,96E-7	1,34E-7	8,72E-10	0E0	0E0	0E0	0E0	4,28E-7	0E0	0E0	0E0	1,07E-9	3,15E-9	2,82E-10	-4,35E-8
AP	mol H^+ eq.	6,07E-2	3,03E-3	3,84E-5	0E0	0E0	0E0	0E0	3,01E-2	0E0	0E0	0E0	1,91E-5	2,66E-4	1,15E-5	-1,41E-2
EP-freshwater	kg P eq.	3,74E-4	1,57E-6	8,82E-8	0E0	0E0	0E0	0E0	2,15E-4	0E0	0E0	0E0	3,7E-8	1,51E-6	1,37E-8	-1,21E-4
EP-marine	kg N eq.	1,04E-2	1,1E-3	1,79E-5	0E0	0E0	0E0	0E0	4,69E-3	0E0	0E0	0E0	5,75E-6	5,87E-5	4,78E-6	-1,23E-3
EP-terrestrial	mol N eq.	1,2E-1	1,2E-2	1,39E-4	0E0	0E0	0E0	0E0	5,52E-2	0E0	0E0	0E0	6,35E-5	6,81E-4	5,04E-5	-1,51E-2
POCP	kg NMVOC eq.	3,5E-2	3,15E-3	4,8E-5	0E0	0E0	0E0	0E0	1,53E-2	0E0	0E0	0E0	2,04E-5	1,86E-4	1,31E-5	-6,78E-3
ADP-minerals & metals*	kg Sb eq.	1,35E-3	1,4E-6	9,13E-8	0E0	0E0	0E0	0E0	1,16E-3	0E0	0E0	0E0	7,75E-8	1,22E-6	1,48E-8	-6,42E-4
ADP-fossil*	MJ	1,01E2	8,36E0	7,36E-2	0E0	0E0	0E0	0E0	4,11E1	0E0	0E0	0E0	7,07E-2	3,04E-1	1,98E-2	-9,19E0
WDP*	m^3	5,09E0	9,17E-3	8,04E-4	0E0	0E0	0E0	0E0	1,06E0	0E0	0E0	0E0	2,63E-4	4,31E-3	2,06E-3	-3,03E-1
Acronyms	GWP-fossil = Global Warming Potential fossil fuels; GWP-biogenic = Global Warming Potential biogenic; GWP-luluc = Global Warming Potential land use and land use change; ODP = Depletion potential of the stratospheric ozone layer; AP = Acidification potential, Accumulated Exceedance; EP-freshwater = Eutrophication potential, fraction of nutrients reaching freshwater end compartment; EP-marine = Eutrophication potential, fraction of nutrients reaching marine end compartment; EP-terrestrial = Eutrophication potential, Accumulated Exceedance; POCP = Formation potential of tropospheric ozone; ADP-minerals & metals = Abiotic depletion potential for non-fossil resources; ADP-fossil = Abiotic depletion for fossil resources potential; WDP = Water (user) deprivation potential, deprivation-weighted water consumption															

** Disclaimer: The results of this environmental impact indicator shall be used with care as the uncertainties of these results are high or as te ihers limited experience with the indicator.*

Potential environmental impact – additional mandatory and voluntary indicators

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
GWP-GHG[1]	kg CO_2 eq.	7,84E0	5,88E-1	5,2E-3	0E0	0E0	0E0	0E0	2,96E0	0E0	0E0	0E0	4,54E-3	2,19E-2	2,91E-2	-1,07E0

Use of resources

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
PERE	MJ	2,03E1	3,41E-2	2,15E-3	0E0	0E0	0E0	0E0	7,67E0	0E0	0E0	0E0	8,9E-4	4,77E-2	3,15E-4	-9,84E-1
PERM	MJ	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0
PERT	MJ	2,03E1	3,41E-2	2,15E-3	0E0	0E0	0E0	0E0	7,67E0	0E0	0E0	0E0	8,9E-4	4,77E-2	3,15E-4	-9,84E-1
PENRE	MJ	1E2	8,36E0	7,36E-2	0E0	0E0	0E0	0E0	4,08E1	0E0	0E0	0E0	7,07E-2	3,04E-1	1,98E-2	-9,19E0
PENRM	MJ	5,35E-1	0E0	0E0	0E0	0E0	0E0	0E0	2,07E-1	0E0	0E0	0E0	0E0	0E0	0E0	0E0
PENRT	MJ	1,01E2	8,36E0	7,36E-2	0E0	0E0	0E0	0E0	4,11E1	0E0	0E0	0E0	7,07E-2	3,04E-1	1,98E-2	-9,19E0
SM	kg	2,11E-1	0E0	0E0	0E0	0E0	0E0	0E0	1,21E-1	0E0	0E0	0E0	0E0	0E0	0E0	4,31E-1
RSF	MJ	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0
NRSF	MJ	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0
FW	m^3	0.0476	7,34E-4	1,89E-5	0E0	0E0	0E0	0E0	1,91E-2	0E0	0E0	0E0	1,47E-5	1,24E-4	6,34E-5	-1,24E-2

Acronyms	PERE = Use of renewable primary energy excluding renewable primary energy resources used as raw materials; PERM = Use of renewable primary energy resources used as raw materials; PERT = Total use of renewable primary energy resources; PENRE = Use of non-renewable primary energy excluding non-renewable primary energy resources used as raw materials; PENRM = Use of non-renewable primary energy resources used as raw materials; PENRT = Total use of non-renewable primary energy re-sources; SM = Use of secondary material; RSF = Use of renewable secondary fuels; NRSF = Use of non-renewable secondary fuels; FW = Use of net fresh water

[1] This indicator accounts for all greenhouse gases except biogenic carbon dioxide uptake and emissions and biogenic carbon stored in the product. As such, the indicator is identical to GWP-total except that the CF for biogenic CO_2 is set to zero.

Waste production

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Hazardous waste	kg	3,94E0	3,02E-3	2,41E-4	0E0	0E0	0E0	0E0	6,18E-1	0E0	0E0	0E0	6,87E-5	0E0	4,11E-4	-1,59E-1
Non-hazardous waste	kg	2,1E1	1,41E-1	1,8E-2	0E0	0E0	0E0	0E0	1,25E1	0E0	0E0	0E0	7,6E-3	0E0	1,11E-1	-7,07E0
Radioactive waste	kg	4,19E-4	6E-5	4E-7	0E0	0E0	0E0	0E0	2,16E-4	0E0	0E0	0E0	4,85E-7	0E0	1,1E-7	-8,95E-6

Output flows

Results per functional or declared unit

Indicator	Unit	A1-A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
Components for re-use	kg	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0
Material for recycling	kg	1E-1	0E0	1,44E-1	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	8,89E-1	0E0	0E0
Materials for energy recovery	kg	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0
Exported energy, electricity	MJ	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0	0E0

Biogenic carbon content

Results per declared unit

Biogenic carbon content	Unit	Quantity
Biogenic carbon content in product	kg C	0
Biogenic carbon content in packaging	kg C	0

EPD

Re-handle® your product:
a disruptive refurbish system to reduce our carbon footprint between 54-91%

d line means business when they establish a circular system to keep their products in use for up to 100 years. Their purpose: to challenge you to choose the enduring solution and reuse, rather than to produce new.

Essentially, d line's Re-handle® concept encourages customers to return, refinish and have d line products refitted in their buildings, to keep them in their life cycle for as long as possible. With each Re-handle the 20-year product warranty period is renewed, and d line want you to reuse the same product up to 4 times, so that it can live for up to 100 years.

Sometimes good as new is better
In this waste-aware environment, Architects and Specifiers look for solutions that are fully documented and thought within their built environment. Now more than ever, we see a movement towards data-driven and future-thinking decision making.

Whilst Environmental Product Declarations (EPDs) are a powerful tool for taking into account energy and resource consumption as well as environmental impacts over the entire life cycle of a product, it requires that a product is fully declared across the entire life cycle in order to make fully informed decisions. Today, it is only mandatory to declare the product is its production phase, thus losing out on vital information across the remaining life cycle, such as use, end of life and recycling.

d line has made it their mission to challenge the industry for undercutting decision makers with correct data and have for that reason decided to fully disclose the complete global warming potential (GWP) in their EPDs. This means full declaration across its entire product life cycle, from production, use, refurbishment and right through to recycling. That's how they can confidently state, that by Re-handling a d line product, you will dramatically reduce the carbon footprint between 54-91% depending on the product, compared to specifying new.

Look for the GWP values in section B5 Refurbishment for the carbon footprint of Re-handling the product, thus making it applicable to be reused in a building as if it were new. It is not possible to Re-handle powder- and PVD coated variants.

References

General Programme Instructions of the International EPD® System. Version 4.0.

ISO 14025:2010 Environmental labels and declarations – Type III environmental declarations Principles and procedures.

ISO 14040:2006 Environmental management. Life cycle assessment. Principles and frameworks.

ISO 14044:2006 Environmental management. Life cycle assessment. Requirements and guidelines.

EN 15804+A2 Sustainability in construction works – Environmental product declarations – Core rules for the product category of construction products.

PCR 2019:14 Construction products (version 1.2.5)

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This declaration applies to products mentioned in the list, along with their mirror polished, powder- and PVD coated versions and brass equivalents:

12404001011	14023002900	14041202020	14121602950	14161602010	14191102900	14233602900	14172002700
12404002011	14023602010	14041202900	14121802050	14161602028	14191602014	14241002920	14172002800
12404074011	14033902902	14041602007	14121902010	14161602036	14191602022	14241002930	14172002900
12404074911	14101002901	14041602011	14121902901	14161602702	14191602900	14241102010	14173002700
12404074921	14101102018	14041602029	14121902902	14161602703	14191902901	14241602010	14173002908
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12404074931	14121802010	14041902010	14131002905	14161702010	14201002908	14241602920	14301002900
12404074933	14141002903	14041902901	14131102012	14161702020	14201102010	14241902932	14301102020
12404101002	14151002900	14041902902	14131202010	14161702900	14201202010	14243002920	14301202010
12404102900	14151302010	14042002011	14131602015	14161902010	14201402020	14243002930	14301602010
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12404201901	14203002900	14045602010	14135602010	14161902902	14201702012	14245602010	14305002908
12404202030	14203602030	14045602900	14135602900	14163002907	14201702021	14251002900	14305602010
12404202038	14243602920	14051002900	14141102020	14163602017	14201702047	14251102010	14311002700
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