Environmental Product Declaration

Information Disclosure Summary

In accordance with ISO 14025 and EN 15804 for

dassoXTR *and* dassoCTECH

From

dasso®

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EPD programme	*The International EPD® System*
Programme operator	*EPD International AB*
Type of EPD	*EPD of multiple products, based on the average results of the product groups*
Third-Party Verifier	*Vito D' Incognito*
EPD Owner	*Zhejiang Daocheng Bamboo Industry Co., Ltd*
Product Name	*dassoXTR and dassoCTECH*
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This document is prepared by dasso for reference only. For the complete EPD, please visit www.environdec.com.

SCOPE AND GOAL

EPD Scope: *cradle to gate with options, modules C1-C4, module D with optional modules (A1-A3 + C +D +A4-A5)*

Geographical scope: *The main upstream raw materials (i.e. bamboo tubes) for dassoXTR and dassoCTECH are supplied by suppliers from Jiangxi Province and Zhejiang Province, China.*
Manufacturing site of dassoXTR and dassoCTECH is located in Zixi County, Fuzhou City, Jiangxi Province, China.
The final product will be transported to Europe for installation and subsequent use.

Declared Unit: *The declared unit is defined as 1 kg of products (the weighted-average results of dassoXTR and dassoCTECH based on production volumes).*

PRODUCT & APPLICATION

Through dasso's patented "heat treatment" technology, dasso processes fused bamboo into dassoXTR for exterior use in classic "Espresso" color; With the application of Ceramix Technology, dassoCTECH exterior materials have wonderful performance outdoor while retaining the original color- Cognac.

dassoXTR and dassoCTECH fused bamboo are both extremely durable and stable to use in exterior field of commercial, residential and public projects. They can be processed into decking, cladding, soffit, fence, lumber and panel. Applica- tions in Scenarios like walkway in garden/sea side/ public area, pool decking, rest area of hotel/ resort, gallery frame, pergola barrier, outdoor furnishings, street bench, facade decorative, etc.

LCA DESCRIPTION

LCA refers to life cycle assessment, it assesses environmental impacts associated with all the stages of the life-cycle of dasso bamboo product. The goal of LCA is to analyze the environmental effects of products by quantifying all inputs and outputs of material flows and assessing how these material flows affect the environment.

LCA-MODULES

Description of the System Boundary(X=INCLUDED IN LCA/MND=MODULE NOT DECLARED)

Product Stage			Construction process stage		Use Stage							End of life stage				Resource recovery stage
Raw Material	Transport	Manufacturing	Transport	Assembly/Install	Use	Maintenance	Repair	Replacement	Refurbushment	Operational energy use	Operational water use	De-constryction and demolition	Transport	Waste processing	disposal	Reuse-Recovery-recycling-potential
A1	A2	A3	A4	A5	B1	B2	B3	B4	B5	B6	B7	C1	C2	C3	C4	D
X	X	X	X	X	MND	MND	MND	MND	MND	MND	MND	X	X	X	X	X

The life cycle stages below have been covered:

A1-A3: *Product stage (raw material acquisition, transport to manufacturing site and manufacturing)*
A4-A5: *Construction stage (transport to user site, installation)*
C1-C4: *End-of-life stage (deconstruction, transport, waste processing and disposal)*
D: *Resource recovery stage (reuse, recovery, recycling)*

Excluded lifecycle stages:
The usage stage of the product is excluded from this study.

LCA RESULT

***dassoXTR and dassoCTECH**, the results declared are the **weighted-average results** of the included products based on the production volumes.*

PARAMETER		UNIT	Product stage			Costruction process stage		End of life stage			
			A1	A2	A3	A4	A5	C1	C2	C3	C4
Total Global warming potential (GWP-total)		kg CO_2 eq.	-1.27E+00	1.76E-01	1.86E+00	9.77E-01	7.65E-02	1.42E-04	7.14E-02	1.58E+00	0.00E+00
Global Warming Potential fossil fuels (GWP-fossil)		kg CO_2 eq.	1.50E+00	1.76E-01	7.19E-01	9.76E-01	4.61E-03	1.42E-04	7.13E-02	1.47E-02	0.00E+00
Global Warming Potential biogenic (GWP-biogenic)		kg CO_2 eq.	-2.78E+00	5.79E-05	1.14E+00	6.99E-04	7.19E-02	2.10E-08	3.32E-05	1.57E+00	0.00E+00
Global Warming Potential land use and land use change (GWP-LULUC)		kg CO_2 eq.	3.88E-03	7.91E-05	6.91E-04	4.58E-04	1.29E-06	1.09E-08	2.66E-05	4.09E-06	0.00E+00
Depletion potential of the stratospheric ozone layer (ODP)		kg CFC 11 eq.	2.55E-08	2.34E-09	6.93E-09	1.65E-08	7.02E-11	1.94E-12	1.56E-09	1.66E-10	0.00E+00
Acidification potential (AP)		mol H+ eq	6.31E-03	1.01E-03	4.11E-03	1.11E-02	2.28E-05	3.33E-07	3.72E-04	1.55E-04	0.00E+00
Eutrophication potential, fraction of nutrients reaching freshwater end compartment (EP-freshwater)		kg P eq	4.15E-04	1.92E-05	2.10E-04	8.74E-05	5.82E-07	3.58E-09	5.83E-06	6.66E-06	0.00E+00
Eutrophication potential, fraction of nutrients reaching marine end compartment (EP-marine)		kg N eq	1.15E-03	4.03E-04	1.03E-03	3.69E-03	1.02E-05	6.36E-08	1.50E-04	8.23E-05	0.00E+00
Eutrophication potential, Accumulated Exceedance (EP-terrestrial)		mol N eq	1.29E-02	4.40E-03	9.75E-03	4.05E-02	1.06E-04	7.20E-07	1.64E-03	7.90E-04	0.00E+00
Formation potential of tropospheric ozone (POCP)		kg NMVOC eq.	5.80E-03	1.42E-03	2.56E-03	1.17E-02	3.16E-05	4.60E-07	5.38E-04	1.98E-04	0.00E+00
Abiotic depletion potential for non-fossil resources (minerals and metals) (ADP-M&M)		kg Sb eq.	1.44E-05	5.17E-07	3.31E-06	3.94E-06	1.44E-08	8.11E-11	3.30E-07	2.59E-08	0.00E+00
Abiotic depletion potential for fossil resources (ADP-fossil)		MJ	2.91E+01	2.51E+00	7.17E+00	1.28E+01	4.67E-02	1.83E-03	1.01E+00	1.32E-01	0.00E+00
Water deprivation potential, deprivation weighted water consumption (WDP)		m^3 depriv.	3.00E-01	1.25E-02	3.30E-01	5.00E-02	5.09E-04	1.11E-05	3.98E-03	6.19E-03	0.00E+00
Global warming potential greenhouse gases (GWP-GHG)		kg CO_2 eq.	1.51E+00	1.76E-01	7.20E-01	9.76E-01	4.61E-03	1.42E-04	7.13E-02	1.47E-02	0.00E+00
Primary energy resources – Renewable	Use as energy carrier	MJ, net calorific value	0.00E+00	3.16E-02	1.05E+00	1.98E-01	3.19E-01	8.39E-06	2.20E-02	0.00E+00	0.00E+00
	Used as raw materials	MJ, net calorific value	2.62E+01	0.00E+00	3.18E-01	0.00E+00	-3.18E-01	0.00E+00	0.00E+00	3.32E-03	0.00E+00
	TOTAL	MJ, net calorific value	2.62E+01	3.16E-02	1.37E+00	1.98E-01	1.11E-03	8.39E-06	2.20E-02	3.32E-03	0.00E+00
Primary energy resources – Non- renewable	Use as energy carrier	MJ, net calorific value	0.00E+00	2.39E+00	6.99E+00	1.28E+01	2.75E-01	1.83E-03	1.01E+00	0.00E+00	0.00E+00
	Used as raw materials	MJ, net calorific value	2.87E+01	0.00E+00	2.28E-01	0.00E+00	-2.28E-01	0.00E+00	0.00E+00	1.32E-01	0.00E+00
	TOTAL	MJ, net calorific value	2.87E+01	2.39E+00	7.22E+00	1.28E+01	4.70E-02	1.83E-03	1.01E+00	1.32E-01	0.00E+00
Secondary material (SR)		Kg	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Renewable secondary fuels (RSF)		MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Non-renewable secondary fuels (NESF)		MJ, net calorific value	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Net use of fresh water (FW)		m3	0.00E+00	0.00E+00	2.12E-02	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00