

Transwall ONE LP Interior Wall Systems



This Environmental Product Declaration, covering all life cycle stages, was prepared in conformity with ISO 14025, ISO 14044, and ISO 21930, and in accordance with the Earthsure Product Category Rule 30162403:2014 for Interior Wall Systems. PCR Review Chair Thomas Gloria, LCACP# 2008-3. EPDs prepared under other programs may not be comparable.



SCS-EPD-05267 | Dates of Validity: December 17, 2018 to December 16, 2023

Transwall

Product: ONE LP - Floor to ceiling glass wall product consisting of a low profile lightweight aluminum skeleton & butt-joint glass - 3 1/8" thick with 1" vertical and horizontal elements providing a slim profile

Producer: Transwall is a well-established developer and manufacturer of movable floor-to-ceiling and architectural (relocatable) wall systems. Founded in 1963 in the western suburbs of Philadelphia, the brand has positioned itself firmly in the relocatable wall segment of the contract interiors industry. Noted for its high quality products and superior services, Transwall has carved out a strong place for itself in eastern markets. It is also a long-standing and trusted supplier to the federal government with installations throughout the US and the world.

Independent Verification

Independent verification of the declaration and data, according to ISO 14025: internal external








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Summary of Life Cycle Impacts and Inventory per m ² -30 yr-meeting IBC requirements for interior walls		
Climate Change	86	kg CO ₂ -eq
Acidification	0.54	kg SO ₂ -eq
Eutrophication	0.22	kg N-eq
Ozone Depletion	5.5x10 ⁻⁶	kg CFC-11-eq
Photochemical Smog	5.5	kg O ₃ -eq
Ecotoxicity	520	CTUe
Human Health – Air	9.1x10 ⁻²	kg PM2.5-eq
Primary Energy Consumption	980	MJ non-renewable
	62	MJ renewable
Freshwater Consumption	220	L
Waste Production	5.1x10 ⁻³	kg hazardous
	33	kg non-hazardous
Material Resource Consumption	INA	kg non-renewable
	0	kg renewable
Land Use	2.9	m ² -yr

INA = Indicator not assessed

LIFE CYCLE IMPACT ASSESSMENT RESULTS

For one square meter of the *ONE by Transwall* interior wall conforming to the International Building Code for thirty years, using TRACI v2.1 Life Cycle Indicators (CML-IA v4.4 in parentheses):

Life Cycle Impact	Total	Stage I Production	Stage II Installation	Stage III Use	Stage IV End of Life	Units
 Climate Change	86	45	40	0.0	0.71	kg CO ₂ eq
	(86)	(45)	(41)	(0.0)	(0.75)	kg CO ₂ eq
 Acidification	0.54	0.17	0.36	0.0	4.4x10 ⁻³	kg SO ₂ eq
	(0.55)	(0.18)	(0.36)	(0.0)	(3.6x10 ⁻³)	kg SO ₂ eq
 Eutrophication	0.54	0.17	0.36	0.0	4.4x10 ⁻³	kg N eq
	(0.12)	(7.1x10 ⁻²)	(4.4x10 ⁻²)	(0.0)	(1.9x10 ⁻³)	kg PO ₄ ³⁻ eq
 Ozone Depletion	5.5x10 ⁻⁶	1.6x10 ⁻⁶	3.8x10 ⁻⁶	0.0	1.6x10 ⁻⁷	kg CFC-11 eq
	(5.5x10 ⁻⁶)	(1.6x10 ⁻⁶)	(3.8x10 ⁻⁶)	(0.0)	(1.6x10 ⁻⁷)	kg CFC-11 eq
 Photochemical Smog	5.5	1.2	4.2	0.0	0.11	kg O ₃ eq
	(2.5x10 ⁻²)	(1.2x10 ⁻²)	(1.3x10 ⁻²)	(0.0)	(2.1x10 ⁻⁴)	kg C ₂ H ₄ eq
 Ecotoxicity	517	355	109	0.0	53	CTUe
	(260,000)	(200,000)	(49,000)	(0.0)	(19,000)	kg 1,4-DB eq
 Human Health-Air	9.1x10 ⁻²	5.4x10 ⁻²	3.6x10 ⁻²	0.0	4.9x10 ⁻⁴	kg PM _{2.5} eq

LIFE CYCLE INVENTORY INFORMATION

For one square meter of interior wall conforming to the International Building Code for thirty years.

Inventory Item	Amount	Units
Primary Energy Consumption	980	MJ non- renewable
	62	MJ renewable
Freshwater Consumption	220	L
Waste Production	5.1×10^{-3}	kg hazardous
	33	kg non-hazardous
Material Resource Consumption	INA	kg non-renewable
	0	kg renewable
Land use	2.9	m ² -yr

INA = Indicator not assessed

HAZARDOUS MATERIAL CONTENT

For one square meter of interior wall conforming to the International Building Code for thirty years (at least 0.1% using California DTSC Candidate Chemical List).

Material	CAS number	Amount (%)
Aluminum	7429-90-5	3.7%

ADDITIONAL ENVIRONMENTAL INFORMATION

For one square meter of interior wall conforming to the International Building Code for thirty years.

VOC emissions per BIFMA X7.1	passed
Recycled Content	1.4% (pre-consumer)
	0.27% (post-consumer)
Organization's use of environmental management system	Not Available
Other environmental certification programs	Indoor Advantage™ Gold

Transwall

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