

Environmental Product Declaration for:
KI Genius Architectural Wall
Steel Panel (Q11/880610)



This Environmental Product Declaration (EPD), 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-03720 | EPD Valid: 11/9/2015 to 11/8/2020



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Product: Genius architectural walls are designed and manufactured offsite, then installed in the building, with a floor-to-ceiling vertical span and meet the requirements of the International Building Code. These interior walls are constructed using ecologically sound materials and manufacturing processes. The wall system integrates with workspaces, storage and accessories to create streamlined workstations, conference rooms, training rooms and more. They may be moved to another location without losing any performance characteristics. This EPD is for a steel panel manufactured in Manitowoc, Wisconsin.

Producer: KI is a contract furniture company that manufactures innovative furniture and movable wall systems for educational, university, business and government markets.

Independent Verification

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








Verifier:

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LCACP#: 2008-3

Summary of Life Cycle Impacts and Inventory per m ² -30 yr, meeting IBC requirements for interior walls	
Climate Change	210 kg CO ₂ -eq
Acidification	2.1 kg SO ₂ -eq
Eutrophication	0.70 kg N-eq
Ozone Depletion	1.2x10 ⁻⁵ kg CFC-11-eq
Photochemical Smog	16 kg O ₃ -eq
Ecotoxicity	1.0 CTUe
Human Health – Air	0.18 kg PM _{2.5} -eq
Primary Energy Consumption	4,700 MJ non-renewable
	200 MJ renewable
Freshwater Consumption	4,000 L
Waste Production	0.047 kg hazardous
	65 kg non-hazardous
Material Resource Consumption	200 kg non-renewable
	3.0 kg renewable
Land Use	40 m ² -yr

LIFE CYCLE IMPACT ASSESSMENT RESULTS

For one square meter of interior wall conforming to the International Building Code for thirty years, using TRACI 2.1 Life Cycle Indicators (CML in parentheses):

Life Cycle Impact		Total	Stage I	Stage II	Stage III	Stage IV:	Units
			Production	Installation	Use	End of Life	
	Climate Change	210	170	14	0.00	26	kg CO ₂ -eq
		(210)	(170)	(14)	(0.00)	(26)	kg CO ₂ -eq
	Acidification	2.1	1.9	0.10	0.00	0.027	kg SO ₂ -eq
		(2.3)	(2.1)	(0.089)	(0.00)	(0.026)	kg SO ₂ -eq
	Eutrophication	0.70	0.37	0.036	0.00	0.30	kg N-eq
		(0.35)	(0.21)	(0.025)	(0.00)	(0.11)	kg PO ₄ ³⁻ -eq
	Ozone Depletion	1.2x10 ⁻⁵	9.9x10 ⁻⁶	1.7x10 ⁻⁶	0.00	2.1x10 ⁻⁷	kg CFC-11-eq
		(1.2x10 ⁻⁵)	(1.0x10 ⁻⁵)	(1.7x10 ⁻⁶)	(0.00)	(2.2x10 ⁻⁷)	kg CFC-11-eq
	Photochemical Smog	16	13	2.5	0.00	0.33	kg O ₃ -eq
		(0.12)	(0.11)	(3.8x10 ⁻³)	(0.00)	(6.4x10 ⁻³)	kg C ₂ H ₄ -eq
	Ecotoxicity	1.0	0.50	0.49	0.00	4.1x10 ⁻³	CTUe
		(0.86)	(0.77)	(0.024)	(0.00)	(0.066)	kg 1,4-DCB-eq
	Human Health- Air	0.18	0.17	7.3x10 ⁻³	0.00	1.8x10 ⁻³	kg PM2.5-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	4,700	MJ non-renewable
	200	MJ renewable
Freshwater Consumption	4,000	L
Waste Production	0.047	kg hazardous
	65	kg non-hazardous
Material Resource Consumption	200	kg non-renewable
	3.0	kg renewable
Land use	40	m ² yr

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	21%
Bisphenol A, Epichlorohydrin Epoxy Resin	25036-25-3	0.39%
Manganese	7439-96-5	0.14%
Titanium dioxide	13463-67-7	0.39%
Zinc	7440-66-6	0.82%

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	19% (pre-consumer)
	9.9% (post-consumer)
Recyclable content*	72%
Organization's use of environmental management system	ISO 9001
Other environmental certification programs	level 2, Indoor Advantage Gold

*Recyclable portion based on steel and aluminum in the wall panel. Recycling facilities may not be available in all areas.



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