

## EPD TRANSPARENCY BRIEF

Product name:
Description:

Komponent®

Shrinkage-compensating

cement additive

Declared unit:

1 tonne of cement product



Acronym	Life Cycle Impact Metrics	Unit	Value
PCOP ODP	Photochemical oxidation potential Ozone layer depletion potential	kg NOx-eq kg CFC-11-eq	0.332 0.0000193
GWP	Global warming potential	$ m kg~CO_2 ext{-}eq$	461
EP AP	Eutrophication potential Acidification potential	m kg~N moles of H <sup>+</sup> -eq	0.0394 41.8

Acronym	Life Cycle Inventory Metrics	Unit	Value
WDP	Water depletion potential	$\mathrm{m}^3$	0.344
TPE	Total primary energy	MJ-eq	2,250
RR	Renewable resources	$\mathrm{m}^3$	0.000661
$\mathbf{RE}$	Renewable energy	MJ-eq	99.3
NRR	Non-renewable resources	kg	91.9
NRE	Non-renewable energy	MJ-eq	2,140
$\mathbf{LFW}$	Landfill bulk waste	kg waste	39.2
LFHW	Landfill hazardous waste	kg waste	0.00338
ADPf	Abiotic depletion-fossil fuel	MJ, net calorific	2,040
		value	
ADPe	Abiotic depletion-elements	kg Sb-eq	0.0149

## **SYSTEM BOUNDARY** – Life Cycle Scope Considered:



A1 RAW MATERIAL SUPPLY A2 TRANSPORT A3 MANUFACTURING A4 - A5 INSTALLATION PROCESS STAGE

A4 TRANSPORT TO SITE A5 INSTALLATION PROCESS

Not Defined

B1 - B7

BI USE B2 MAINTENANCE

B3 REPAIR

B4 REPLACEMENT

B5 REPORBISHMENT

B7 OPERATIONAL WATER USE

Not Defined

C1 - C4 END OF LIFE STAGE

C1 DE-INSTALLATION/ DEMOLITION C2 TRANSPORT C3 WASTE PROCESSING C4 DISPOSAL OF WASTE

Not Defined





Declared Product:	This environmental product declaration (EPD) covers cement products produced by CTS Cement Manufacturing Corp.  Declared unit: 1 tonne of cement product
Declaration Owner:	CTS Cement Manufacturing Corp. 12442 Knott St. Garden Grove, CA 92841 www.ctscement.com
Program Operator:	Labeling Sustainability 11670 W. Sunset Blvd. Los Angeles, CA 90064 www.labelingsustainability.com
Product Category Rule (PCR):	Core Product Category Rule (PCR) ISO 21930:2017: Sustainability in buildings and civil engineering works – Core rules for environmental product declarations of construction products and services; Subcategory PCR (used only as guidance document) NSF International (March 2020). PCR for ISO 14025 Type III EPD of Portland, Blended, Masonry, Mortar, and Plastic (Stucco) Cements. Valid through March 31, 2025.
	<ul> <li>Subcategory PCR Program Operator: NSF International</li> <li>Subcategory PCR Review Conducted By:</li> <li>Jack Geilbig, EcoForm, 2624 Abelia Way, Suite 611, Knoxville, TN 37931; jgeilbig@ecoform.com</li> <li>Thomas Gloria, Industrial Ecology Consultants, 35 Bracebridge Road, Newton, MA 02459-1728; t.gloria@industrial-ecology.com</li> <li>Bill Stough, Sustainable Research Group, P.O. Box 1684, Grand Rapids, MI 49501-1684; bstough@sustainableresearchgroup.com</li> </ul>
Independent Verifier:	Life cycle assessment (LCA) independently reviewed in accordance with ISO 14044 and referenced PCR.  EPD independently verified in accordance with ISO 14025:2006  Internal  External  Third-Party Verifier: Geoffrey Guest, certified under Labeling Sustainability (www.labelingsustainability.com), CSA Group (www.csaregistries.ca)
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