

# Environmental Product Declaration For Richlite Countertops



## Product Information

Richlite Countertops are paper-based fiber composite surfacing materials made primarily of paper purchased from FSC-Certified sources and/or recycled paper. The paper is treated with resin then pressed and baked to create solid sheets. During the use phase, Richlite Countertops are maintained by wiping with a damp cloth.

The analysis shown here was performed in accordance with the Green Standard Environmental Product Declaration System Product Category Rule for Countertops, v3. The analysis is based on a life cycle assessment of Richlite Countertops, using data collected during 2010-2011.



Environmental Product Declarations from other sources using different Product Category Rules may not be comparable to this one.

## Certification

<b>Product Name</b>	Richlite Countertops
<b>Product ID number(s)</b>	FSC Certified, R-50 and R-100, FSC Certified 100% Recycled
<b>Product Category Rule</b>	The Green Standard Countertop PCR, v3
<b>Program Operator</b>	Earthsure program, IERE PO Box 2449, Vashon WA 98070 earthsure.org 206-463-7430
<b>This EPD is valid until</b>	January 31, 2017
<b>Validator Name</b>	Rita Schenck, LCACP external verifier
<b>Validator Signature</b>	<i>Rita Schenck</i>
<b>LCACP Registration Number</b>	2008-08
<b>Effective Date: 23 January 2012</b>	<b>Expiration Date: 22 January 2017</b>

## Material Content

Paper	Component	Material	Percent	Brief Description
FSC Certified	Paper	Cellulose Fiber	63	90% from FSC Certified forests; 10% Mixed 30% Eucalyptus/70% pine
	Resin	Phenolic Resin	37	Formaldehyde/Phenol/Methanol
R50	Paper	Cellulose Fiber	63	50% softwood 50% recycled corrugated
	Resin	Phenolic Resin	37	Formaldehyde/Phenol/Methanol
FSC Certified	Paper	Cellulosic Fiber	63	post consumer waste paper
100%Recycled	Resin	Phenolic Resin	37	Formaldehyde/Phenol/Methanol






The cellulose fiber content of Richlite counters varies by product line. It may be derived from FSC certified forests, or pre or post consumer Kraft paper sources.

## Product and LCA Modeling Information

Average Distance to jobsite	2038 km land/1094 km ship	
Electricity Mix	Tacoma Public Utility (primary data)	
Non-renewable materials used	None	
Dielectric Strength	(volts/mil)	150
Flame Resistance	ASTME 84	Flame spread 25 Smoke Developed 40
Coefficient Thermal Expansion	min/in. °F (x/y/z)	5.2/12.8/45.9-73.5
Scratch Resistance	Mohs Hardness	
Compressive Strength (x/y/z)	PSI	18,400/15,900/30,000
Strain at failure (x,y,z)	Percent	7.09/7.15/20
Abrasion Resistance (weight loss per 1000 rev)	Taber Abraser (CS-17) (1/4"x4"x4")	0.0112%
Chemical Sensitivity	Mild alkaline strong alkaline	Slight to marked Decomposes

Richlite Countertops are resistant to sunlight acids and solvents.

## The Life Cycle Environmental Impact of one square meter year of Richlite countertop

		Production	Fabrication	Use	End of Life	Equivalent Units
	<b>Climate Change</b> 11	8.5	0.81	0.0	1.4	Kg CO <sub>2</sub>
	<b>Acidification</b> 3.9	3.7	0.15	0.0	0.03	Grams H+
	<b>Eutrophication</b> 34	17	4.4	0.0	13	Grams N
	<b>Ozone Depletion</b> 0.17	0.16	0.0019	0.0	0.0057	mg CFC-11
	<b>Photochemical Smog</b> 36	32	3.1	0.0	0.58	mg NO <sub>2</sub>

Assumptions and allocation rules for the LCA followed those of the Earthsure program

## Life Cycle Energy Use

Energy Source	Production	Fabrication	Use	End of Life	Total
<b>Non-Renewable Sources (MJ/m<sup>2</sup> yr<sup>-1</sup>)</b>					
<i>Lignite</i>	15	0.14	0.0	0.017	<b>15</b>
<i>Mineral Coal</i>	15	0.087	0.0	0.28	<b>15</b>
<i>Natural Gas</i>	54	4.1	0.0	0.59	<b>59</b>
<i>Oil</i>	0.26	0.04	0.0	0.003	<b>0.30</b>
<i>Uranium</i>	15	0.14	0.0	0.017	<b>15</b>
<b>Renewable Sources (MJ/m<sup>2</sup> yr<sup>-1</sup>)</b>					
<i>Hydropower</i>	9.8	0.003	0.0	0.009	<b>10</b>
<i>Wind Power</i>	73	0.066	0.0	0.21	<b>74</b>
<i>Solar Power</i>	0.019	0.0001	0.0	0.0004	<b>0.020</b>
<b>Total Energy</b>	<b>244</b>	<b>5</b>	<b>0.0</b>	<b>1</b>	<b>249</b>

## More information on Richlite Countertops

Richlite countertops contains no hazardous materials

To the best of our knowledge, Richlite countertops contain no endocrine disrupters as defined by the European Commission.

Richlite countertops are certified by  
Greenguard (all countertops)  
Forest Stewardship Council (FSC Certified product only)

Richlite Countertops qualify for the following LEED Credits:  
MR Credits 3, 4, 5, 6, 7  
IEQ Credit 4.4 and ID Credit 1

Dates of data collection

2010 - 2011

## Disclaimers

The analyses presented here were performed with all due care, but the user should realize that they represent the average results measured under standardized conditions and the actual environmental performance will vary depending on the particular application, and other factors beyond the control of Richlite.

The results shown here pertain only to the referenced product category rule. They should not be compared directly to results using a different product category rule.

For more information, contact

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