SCS Global Services does hereby certify that an independent assessment has been conducted on behalf of:

RedBuilt LLC

200 E. Mallard Dr., Boise, ID, United States

For the following product(s):

Building and Construction Products:

Red-I I-Joists

The product(s) meet(s) all of the necessary qualifications to be certified for the following claim(s):

VERIFIED HEALTH PRODUCT DECLARATION

This validation conforms to the **Health Product Declaration Open Standard, Version 2.3 (May 12, 2022)**. Products have a complete, basic method, product threshold HPD and have been validated for health hazard warnings using full disclosure at an inventory threshold of 1000 ppm (0.1%). All substances above the the threshold were characterized and screened. **Special Conditions for BiologicalMaterial applied the HPD.**

HPD Screening Dates: 1/25/23

Verification #: qGE-8669

Registration # SCS-HPD-05694

Valid from: January 31, 2023 to January 25, 2026

SCS alabad

Stanley Mather Ram

Stanley Mathuram, PE, Executive Vice President SCS Global Services 2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA HPD UNIQUE IDENTIFIER: 31260

CLASSIFICATION: 06 17 33 Wood I-Joists

PRODUCT DESCRIPTION: Red-ITM I-joists are engineered wood products manufactured in Stayton, Oregon. Red-ITM I-joists are available in several different series and depth ranges from 9-1/2" (241mm) to 32" (813mm). Red-ITM I-Joists are engineered to provide structural joist solutions for floor, ceiling, and roof system applications.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

○ Nested Materials Method

Basic Method

Threshold Disclosed Per

.

O Material

Product

Threshold Level

○ 100 ppm ⊙ 1,000 ppm

© Per GHS SDS

Other

Residuals/Impurities Evaluation

Completed

Partially CompletedNot Completed

Explanation(s) provided :

⊙ Yes ⊜ No

For all contents above the threshold, the manufacturer has:

Characterized © Yes C No

Provided weight and role.

Screened © Yes C No

Provided screening results using HPDC-approved methods.

Identified C Yes ⊙ No

Provided name and CAS RN or other identifier.

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

PRODUCT | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY

GREENSCREEN SCORE | HAZARD TYPE

RED-I JOISTS [PHENOL FORMALDEHYDE LT-P1 | RES POLYMERIC MDI (PMDI) LT-UNK | CAN | RES | EYE | SKI | MAM UNDISCLOSED CHEMICAL #1 BM-4 PARAFFIN LT-UNK PHENOL, POLYMER WITH FORMALDEHYDE, SODIUM SALT LT-UNK UNDISCLOSED CHEMICAL #2 LT-P1 UNDISCLOSED CHEMICAL #3 LT-1 | CAN | MUL | DEV CELLULOSE]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... LT-P1, LT-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special Conditions applied: [BiologicalMaterial]

Due to the proprietary nature of the information, the name and CAS number for certain chemicals have been redacted from this substance entry.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE See Section 3 for additional listings.

VOC emissions: No VOC Certification

Other: Environmental Product Declaration (EPD) by SCS

Sustainable forestry: ASTM D7612

Sustainable forestry: SFI Sustainable Forestry Initiative - Certified Chain of Custody

(COC)

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Third Party Verified?

⊙ Yes⊙ No

PREPARER: ToxServices LLC VERIFIER: SCS Global Services VERIFICATION #: qGE-8669 SCREENING DATE: 2023-01-25 PUBLISHED DATE: 2023-01-31 EXPIRY DATE: 2026-01-25

Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.3, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-3-standard

RED-I JOISTS

CELLULOSE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

RESIDUALS AND IMPURITIES NOTES: RedBuilt worked with the HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold.

OTHER PRODUCT NOTES: This information is a representative HPD covering standard Red-I I-joist products produced at RedBuilt's Stayton facility and is not applicable to Red-I I-joists produced with, or that have undergone a secondary treatment process. The average weights and the anticipated components are based upon practical professional judgment and information provided by suppliers

MATERIAL CONTENT NOTES: The suppliers of the veneer material have verified that they supply RedBuilt unaltered veneer without any additives such as mold/mildew inhibitors.

This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

ID: Biological Material

PHENOL FORMALDEHYDE ID: 9003-35-4 HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-01-25 12:43:58 %: 0.4200 - 5.8100 RC: None NANO: No SUBSTANCE ROLE: Adhesive GreenScreen: LT-P1 HAZARD TYPE LIST NAME AND SOURCE WARNINGS RES AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced ADDITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION Living Building Challenge 4.0 - Red List of Materials & Chemicals -RESTRICTED LIST International Living Future Institute (ILFI) Effective April 1, 2022 Red List substances to avoid in Living Building Challenge V4.0 projects

SUBSTANCE NOTES::

POLYMERIC MDI (PMDI) ID: 9016-87-9

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DA	ATE: 2	2023-01-25 12:	43:58	
%: 0.4139 - 5.7946	GreenScreen: LT-UNK	RC: None	NANO	O: No	SUBSTANCE ROLE: Adhesive	
HAZARD TYPE	LIST NAME AND SOUR	CE		WARNINGS		
CAN	MAK			Carcinogen G MAK/BAT leve	roup 4 - Non-genotoxic carcinogen with low risk under els	
RES	MAK			Sensitizing Su	ubstance Sah - Danger of airway & skin sensitization	
EYE	GHS - New Zealand			Eye irritation of	category 2	
SKI	GHS - Australia			H315 - Cause	s skin irritation [Skin corrosion/irritation - Category 2]	
EYE	GHS - Australia			H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]		
MAM	GHS - Australia				s damage to organs through prolonged or repeated ecific target organ toxicity - repeated exposure -	
MAM	GHS - New Zealand			Specific targe	et organ toxicity - repeated exposure category 1	
MAM	GHS - New Zealand			Acute inhalati	on toxicity category 2	
MAM	Québec CSST - WHMIS	1988		Class D1A - V effects	ery toxic material causing immediate and serious toxic	
MAM	GHS - Australia			H330 - Fatal if	f inhaled [Acute toxicity (inhalation) - Category 1 or 2]	
CAN	GHS - Australia			H351 - Suspected of causing cancer [Carcinogenicity - Category 2]		
ADDITIONAL LISTINGS	LIST NAME AND SOUR	CE		NOTIFICATIO	N	
RESTRICTED LIST	Perkins+Will (P+W)			P&W - Precau	utionary List	
				Precautionary	list of substances recommended for avoidance	
SUBSTANCE NOTES:						

UNDISCLOSED CHEMICAL #1	ID: Undisclosed
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		Exempt	ed from REACH A	Annex IV listing due to intrinsic safety
EXEMPT	European Union / European Commission	(EU EC) EU - RE	ACH Exemptions	
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFIC	CATION	
None found			No	warnings found on HPD Priority Hazard Lists
HAZARD TYPE	LIST NAME AND SOURCE	WARNI	NGS	
%: 1.2625 - 1.2625	GreenScreen: BM-4	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD DATA SOURCE: Pharos	s Chemical and Materials Library	HAZARD SCF	REENING DATE:	2023-01-25 12:43:59

SUBSTANCE NOTES: This substance was properly screened by the HPD Approved Preparer. The GreenScreen® Benchmark assessment score of BM-4 was provided through the HPD 2.3 Builder Tool. The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

PARAFFIN ID: 8002-74-2

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-01-25 12:44:00 %: 0.4139 - 0.8278 SUBSTANCE ROLE: Sealant GreenScreen: LT-UNK RC: None NANO: No HAZARD TYPE WARNINGS LIST NAME AND SOURCE None found No warnings found on HPD Priority Hazard Lists ADDITIONAL LISTINGS LIST NAME AND SOURCE **NOTIFICATION** None found No listings found on Additional Hazard Lists SUBSTANCE NOTES:

PHENOL, POLYMER WITH FORMALDEHYDE, SODIUM SALT

ID: 40798-65-0

HAZ	ZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCREENING DAT	E: 2023-01-25 12:44:00	
%:	0.5750 - 0.5750	GreenScreen: LT-UNK	RC: None	IANO: No	SUBSTANCE ROLE: Adhesive
HA	AZARD TYPE	LIST NAME AND SOUR	CE	WARNINGS	
No	one found				No warnings found on HPD Priority Hazard Lists
ΑE	ODITIONAL LISTINGS	LIST NAME AND SOUR	DE	NOTIFICATION	
No	one found				No listings found on Additional Hazard Lists

UNDISCLOSED CHEMICAL #2

SUBSTANCE NOTES:

ID: Undisclosed

HAZARD DATA SOURCE: Pharos Chemical and Materials Library		HAZARD SCREENING DATE:		2023-01-25 12:43:58	
3000 - 0.3000	GreenScreen: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive	
ARD TYPE	LIST NAME AND SOURCE	WARNINGS			
e found				No warnings found on HPD Priority Hazard Lists	
ITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFI	CATION		
e found				No listings found on Additional Hazard Lists	
	RD DATA SOURCE: Pharos Chemica 3000 - 0.3000 ARD TYPE e found ITIONAL LISTINGS e found	GreenScreen: LT-P1 ARD TYPE LIST NAME AND SOURCE e found ITIONAL LISTINGS LIST NAME AND SOURCE	GreenScreen: LT-P1 RC: None ARD TYPE LIST NAME AND SOURCE WARNI e found ITIONAL LISTINGS LIST NAME AND SOURCE NOTIFI	GreenScreen: LT-P1 RC: None NANO: No ARD TYPE LIST NAME AND SOURCE WARNINGS e found ITIONAL LISTINGS LIST NAME AND SOURCE NOTIFICATION	

SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

UNDISCLOSED CHEMICAL #3

HAZARD DATA SOURCE:	Pharos Chemical and Materials Library	HAZARD SCRI	EENING DATE:	2023-01-25	12:43:59		
%: 0.1100 - 0.1100	GreenScreen: LT-1	RC: None	NAN	NO: No	SUBSTANCE ROLE: Sealant		
HAZARD TYPE	LIST NAME AND SOUR	CE		WARNING	s		
CAN	EU - REACH Annex XVII	EU - REACH Annex XVII CMRs			Carcinogen Category 2 - Substances which should be regarded as it they are Carcinogenic to man		
CAN	EU - Annex VI CMRs	EU - Annex VI CMRs			Carcinogen Category 1B - Presumed Carcinogen based on animal evidence		
MUL	ChemSec - SIN List	ChemSec - SIN List			CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
MUL	German FEA - Substanc	German FEA - Substances Hazardous to Waters			Class 3 - Severe Hazard to Waters		
CAN	GHS - Australia	GHS - Australia		H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]			
CAN	EU - GHS (H-Statement	EU - GHS (H-Statements) Annex 6 Table 3-1			H350 - May cause cancer [Carcinogenicity - Category 1A or 1B]		
DEV	GHS - Australia	GHS - Australia		H361d - Suspected of damaging the unborn child [Reproductive toxicity - Category 2]			
ADDITIONAL LISTINGS	LIST NAME AND SOUR	CE		NOTIFICAT	TION		
None found					No listings found on Additional Hazard List		

SUBSTANCE NOTES: The HPDC Approved Preparer obtained full disclosure down to the 1,000 ppm threshold for the trade name ingredient containing this chemical. Due to the proprietary nature of the information, the name and CAS number for this chemical have been redacted from this substance.

ID: Undisclosed

Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

VOC EMISSIONS

No VOC Certification

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2022-09-06 **EXPIRY DATE:**

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: N/A

CERTIFICATE URL: https://www.usgbc.org/leedaddenda/10466

CERTIFICATION AND COMPLIANCE NOTES: CDPH Standard V1.2 (Section 01350/CHPS)- Not tested

CERTIFYING PARTY: Third Party

OTHER

ISSUE DATE: 2021-12-20 EXPIRY DATE: 2026-12-19

Environmental Product Declaration (EPD) by SCS

CERTIFIER OR LAB: SCS Global Services

APPLICABLE FACILITIES: Stayton Facility CERTIFICATE URL:

https://cdn.scscertified.com/products/cert_pdfs/SCS-EPD-

07524 RedBuilt Red-I Joists 122021.pdf

CERTIFICATION AND COMPLIANCE NOTES: SCS-EPD-07525: PCR Guidance for Building-Related Products and Services Part A: Life Cycle Assessment Calculation Rules and Report Requirements (V 3.2, UL Environment, Dec 2018) PCR Guidance for Building-Related Products and Services, Part B: Structural and Architectural Wood Products, EPD Requirements UL 10010-9 v.1.1.2020.

SUSTAINABLE FORESTRY

ASTM D7612

EXPIRY DATE:

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2022-09-06

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: Stayton Facility

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: All wood materials used in this product meet the requirements of ASTM D7612 as coming from coming from either Responsible or Non-Controversial sources.

SUSTAINABLE FORESTRY

SFI Sustainable Forestry Initiative - Certified Chain of Custody (COC)

CERTIFYING PARTY: Third Party

ISSUE DATE: 2020-12-20 EXPIRY DATE: 2025-12-19 CERTIFIER OR LAB: SCS Global Services

APPLICABLE FACILITIES: Stayton Facility

CERTIFICATE URL: https://sfidatabase.org/mod-cert/item/102323-

scs-sfi-coc-001848

CERTIFICATION AND COMPLIANCE NOTES: SFI Standard: SFI2015-2021, Section 4 (Chain of Custody). Certificate covers production of Red-I joists and RedLam LVL using the volume credit method.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

No accessories are required for this product.

Section 5: General Notes

RedBuilt worked with an HPDC Approved Preparer to confirm that all residuals and impurities were considered under the preparation of this HPD. This was accomplished by obtaining full formulation disclosure, including residuals and impurities, down to the 1,000 ppm threshold. Due to the proprietary nature of the information, the name and CAS number for certain chemicals have been redacted from this substance entry. "Undisclosed Chemical #n" indicates chemicals RedBuilt suppliers protect with NDAs.

MANUFACTURER INFORMATION

MANUFACTURER: RedBuilt LLC ADDRESS: 200 E. Mallard Drive Boise Idaho 83706, USA WEBSITE: www.redbuilt.com CONTACT NAME: Christine Richey TITLE: Professional Engineer PHONE: 503-640-7151 EMAIL: crichey@redbuilt.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity

CAN Cancer

DEV Developmental toxicity **END** Endocrine activity

EYE Eye irritation/corrosivity

GEN Gene mutation

GLO Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

NEU Neurotoxicity

NF Not found on Priority Hazard Lists

OZO Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

REP Reproductive

RES Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

UNK Unknown

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)

BM-3 Benchmark 3 (use but still opportunity for improvement)

BM-2 Benchmark 2 (use but search for safer substitutes)

BM-1 Benchmark 1 (avoid - chemical of high concern)

BM-U Benchmark Unspecified (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown

NoGS No GreenScreen.

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, www.greenscreenchemicals.org, and Best Practices for Hazard Screening on the HPDC website (hpd-collaborative.org).

Recycled Types

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Inventory Methods:

Nested Method / Material Threshold Substances listed within each material per threshold indicated per material Nested Method / Product Threshold Substances listed within each material per threshold indicated per product Basic Method / Product Threshold Substances listed individually per threshold indicated per product

Nano Composed of nano scale particles or nanotechnology

Third Party Verified Verification by independent certifier approved by HPDC

Preparer Third party preparer, if not self-prepared by manufacturer

Applicable facilities Manufacturing sites to which testing applies

The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.