

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:

Open-Web Trussess

HPD Screening Dates: 9/1/2020

Verification #: qGE-10528



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 2.2 (May 18, 2020).

Products have a complete, basic method, product threshold HPD and have been validated for health hazard warnings at an inventory threshold of 1000 ppm (0.1%). All substances above the the threshold were characterized, screened and identified. Special Conditions for BiologicalMaterial applied the HPD.

Registration # SCS-HPD-06402

Valid from: October 20, 2020 to September 1, 2023



A handwritten signature in black ink that reads 'Stanley Mathuram'.

Stanley Mathuram, PE, Vice President

SCS Global Services
2000 Powell Street, Ste. 600, Emeryville, CA 94608 USA

HPD UNIQUE IDENTIFIER: 22593

CLASSIFICATION: 06 17 53 Shop-Fabricated Wood Trusses

PRODUCT DESCRIPTION: Open-Web trusses are Warren-style trusses produced at our Hillsboro Oregon, Chino California and Delaware Ohio facilities that have either parallel, tapered, scissor, radius or pitched chord members. The trusses have solid-sawn lumber (MSR) or laminated veneer lumber, steel-tube webs, and solid-steel pins used as web-chord connectors. These trusses are designated as Red-L, Red-W, Red-S, Red-M and Red-H series.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Table with 4 columns: Inventory Reporting Format, Threshold level, Residuals/Impurities, and Characterized/Screened/Identified. Includes radio button options for various methods and levels, and descriptive text for each section.

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.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE
OPEN-WEB TRUSSES [SC:CELLULOSE Not Screened STEEL
MANUFACTURE, CHEMICALS LT-UNK PHENOL, POLYMER WITH
FORMALDEHYDE, SODIUM SALT LT-UNK UNS Z35531 ZINC ALLOY
LT-P1 | AQU | PHY | END | MUL FORMALDEHYDE, POLYMER WITH 1,3-
BENZENEDIOL, SODIUM SALT LT-P1 WATER BM-4]

Number of Greenscreen BM-4/BM3 contents ... 1
Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Special conditions applied: BiologicalMaterial

[LEED v4] "Yes ex/SC" result is due only to materials and substances for which Special Conditions were applied. Thus "Yes ex/SC" does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

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: VOC Emissions - No VOC Certification
Sustainable forestry: ASTM D7612

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

- Yes
No

PREPARER: ToxServices LLC
VERIFIER: SCS Global Services
VERIFICATION #: qGE-10528

SCREENING DATE: 2020-09-01
PUBLISHED DATE: 2020-10-20
EXPIRY DATE: 2023-09-01

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 2.2, available on the HPDC website at: www.hpdc-collaborative.org/hpd-2-2-standard

OPEN-WEB TRUSSES

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: 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 is a representative HPD covering standard open-web trusses of various configurations. The average weights and the anticipated components are base on practical professional judgment and information provided by the suppliers.

SC:CELLULOSE

ID: **SC:Bio**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-01**

#: **63.1600 - 66.6900** GS: **Not Screened** RC: **None** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
Hazard Screening not performed		

SUBSTANCE NOTES:

Version: SCBioMats/2018-02-23

Category: Tree-based materials

Identifier: Unaltered Veneer and lumber

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.

The suppliers of the veneer and lumber material have verified that they supply RedBuilt plain, unaltered veneer and lumber without any additives such as mold/mildew inhibitors.

STEEL MANUFACTURE, CHEMICALS

ID: **65997-19-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-01**

#: **30.9800 - 35.9200** GS: **LT-UNK** RC: **Both** NANO: **No** SUBSTANCE ROLE: **Structure component**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: The supplier buys steel slabs from many sources, domestically and around the world for conversion to finished steel products. Based on current and projected total slab tonnage purchases from all sources, the manufacturer claims a minimum 23% Recycled Steel Content (19% Post-Consumer and the balance 4% Pre-Consumer).		

PHENOL, POLYMER WITH FORMALDEHYDE, SODIUM SALT ID: 40798-65-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-01		
#: 0.5200 - 0.8600	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
None found		No warnings found on HPD Priority Hazard Lists		
SUBSTANCE NOTES:				

UNS Z35531 ZINC ALLOY ID: 7440-66-6

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-01		
#: 0.2100 - 0.2800	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Galvanizing
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
ACUTE AQUATIC	EU - GHS (H-Statements)	H400 - Very toxic to aquatic life		
CHRON AQUATIC	EU - GHS (H-Statements)	H410 - Very toxic to aquatic life with long lasting effects		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H250 - Catches fire spontaneously if exposed to air		
PHYSICAL HAZARD (REACTIVE)	EU - GHS (H-Statements)	H260 - In contact with water releases flammable gases which may ignite spontaneously		
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES: .				

FORMALDEHYDE, POLYMER WITH 1,3-BENZENEDIOL, SODIUM SALT ID: 148906-95-0

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-09-01		
#: 0.0000 - 0.2500	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Adhesive

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES:

WATER

ID: **7732-18-5**

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2020-09-01**

%: **0.0000 - 1.1300** GS: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Adhesive**

HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: The GreenScreen® Benchmark assessment score of BM-4 was provided through the HPD 2.2 Builder Tool.

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	VOC Emissions - No VOC Certification		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2020-07-	EXPIRY DATE:	CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: Chino, Hillsboro, Delaware	20		
CERTIFICATE URL: https://www.usgbc.leedaddenda/10466			
CERTIFICATION AND COMPLIANCE NOTES: CDPH Standard V1.2 (Section 01350/CHPS) - Not Tested			

SUSTAINABLE FORESTRY	ASTM D7612		
CERTIFYING PARTY: Self-declared	ISSUE DATE: 2020-07-	EXPIRY DATE:	CERTIFIER OR LAB: N/A
APPLICABLE FACILITIES: Chino, Hillsboro, Delaware	23		
Facilities			
CERTIFICATE URL:			
CERTIFICATION AND COMPLIANCE NOTES: All wood chord material used in this product meets the requirements of ASTM D7612 as coming from either Responsible or Non-Controversial sources.			

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.

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: 530-640-7151
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	LAN Land toxicity	PHY Physical hazard (flammable or reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive
DEV Developmental toxicity	MUL Multiple	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	NF Not found on Priority Hazard Lists	UNK Unknown
GEN Gene mutation	OZO Ozone depletion	
GLO Global warming	PBT Persistent, bioaccumulative, and toxic	

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-1 List Translator 1 (Likely Benchmark-1)
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
BM-2 Benchmark 2 (use but search for safer substitutes)	NoGS No GreenScreen.
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)	

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.