

CLASSIFICATION: 05 40 00 Metals (beams): Cold-Formed Metal Framing

PRODUCT DESCRIPTION: CEMCO's Sure-Span® steel floor joist system is a patented, tested, and approved solution for commercial, mid-rise, and residential floor framing assemblies. Sure-Span floor joists are manufactured with extra large openings (punch-outs) to allow for mechanical, electrical, and plumbing access without damaging the structural integrity of the floor framing system. Sure-Span provides long and sturdy floor spans, along with fire-resistant and sound-reducing solutions for architects, engineers, and developers. This HPD covers "SSCJ" Punched C-Joists and "SSRT" Rim Track with Pre-Spaced Clips. "SSCJ" Sure-Span floor joists are manufactured with either a 1-3/4" or 2" flange, in thicknesses ranging from 43 mil to 97 mil. The corresponding "SSRT" Sure-Span Rim Tracks are manufactured with either a 2" leg/flange, in thicknesses ranging from 43 mil to 97 mil, and are produced with pre-spaced clips at 12, 16, 19.2 or 24 inch on-center configurations for ease of installation. All CEMCO Sure-Span products are manufactured from hot-dipped galvanized steel in G60 coating (G90 available upon special request), and meet or exceed relevant ASTM, AISI, and UL standards.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
 Basic Method

Threshold Disclosed Per

- Material
 Product

Threshold level

- 100 ppm
 1,000 ppm
 Per GHS SDS
 Per OSHA MSDS
 Other

Residuals/Impurities

- Considered
 Partially Considered
 Not Considered

Explanation(s) provided
for Residuals/Impurities?

- Yes No

Are All Substances Above the Threshold Indicated:

Characterized Yes No

Percent Weight and Role Provided?

Screened Yes No

Using Priority Hazard Lists with Results Disclosed?

Identified Yes No

Name and Identifier Provided?

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](#)

[SURE-SPAN FLOOR JOISTS](#) [[STEEL](#) [NoGS](#) [ZINC](#) [LT-P1](#) | [AQU](#) | [PHY](#) | [END](#) | [MUL](#)]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen
Benchmark or List translator Score ... LT-P1
Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.1.1, and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product, as well as the role and percent by weight. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (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: Inherently non-emitting source per LEED®
Multi-attribute: Environmental Product Declaration (EPD) by UL

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?

- Yes
 No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2018-10-10

PUBLISHED DATE: 2018-10-22

EXPIRY DATE: 2021-10-10



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 2.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-standard

SURE-SPAN FLOOR JOISTS

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and Impurities were "Considered", as outlined in Emerging Best Practices. No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1, LT-P1 or NoGS based on information provided in supplier SDS and as predicted by process chemistry (Pharos CML). However, supplier SDS states the following: "All commercial steel products may contain small amounts of various elements in addition to those specified. These small quantities (less than 0.1%) may exist as intentional additions, or as "trace" or "residual" elements that generally originate in the raw materials used. These elements may include: aluminum, antimony, arsenic, boron, cadmium, calcium, chromium, cobalt, columbium, copper, lead, molybdenum, nickel, silicon, tin, titanium, vanadium, and zirconium."

OTHER PRODUCT NOTES: Standard G60 hot-dipped galvanized steel. Passivation coatings for corrosion resistance are an industry standard for this type of material; however, the substances used for such coatings fall below the inventory threshold (0.1% or 1000 ppm) of the material, and are therefore not reported here.

STEEL

ID: 12597-69-2

%: 97.4000 - 99.1000 GS: NoGS RC: Both NANO: No ROLE: Base Metal

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: CEMCO cold-formed steel framing products contain 30% to 37% pre- and post-consumer recycled steel sourced from several domestic (USA) suppliers. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including Metal Alloys such as Steel. Supplier reports the following composition of alloying elements: max 0.9% Manganese (7439-96-5; LT-P1); max 0.6% Carbon (7440-44-0; LT-UNK); max 0.6% Silicon (7440-21-3; LT-UNK); max 0.5% Copper (7440-50-8; LT-UNK); max 0.15% Phosphorus (8049-19-2; NoGS); max 0.1% Calcium (7440-70-2; LT-P1).

ZINC

ID: 7440-66-6

%: 0.9000 - 2.6000 GS: LT-P1 RC: None NANO: No ROLE: Metallic Coating

HAZARDS:	AGENCY(IES) WITH 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: Form-specific hazards not expected to apply to the finished and installed product; however, further processing (e.g. welding, sawing) during installation may release fumes or other respirable particles. The Safety Data Sheet (SDS) for Galvanized Sheet Steel can be found at <http://cemcosteel.com/cemco-submittal-creator>.

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

Inherently non-emitting source per LEED®

CERTIFYING PARTY: Self-declared

ISSUE DATE: 2018-10-01

EXPIRY DATE:

CERTIFIER OR LAB: N/A

APPLICABLE FACILITIES: City of Industry, CA 91746; Pittsburg, CA 94565; Denver, CO 80204; Fort Worth, TX 76140

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: As per LEED: "Products that are inherently nonemitting sources of VOCs (stone, ceramic, powder-coated metals, plated or anodized metal, glass, concrete, clay brick, and unfinished or untreated solid wood) are considered fully compliant without any VOC emissions testing if they do not include integral organic-based surface coatings, binders, or sealants."

MULTI-ATTRIBUTE

Environmental Product Declaration (EPD) by UL

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: City of Industry, CA 91746; Pittsburg, CA 94565; Denver, CO 80204; Fort Worth, TX 76140

CERTIFICATE URL:

http://www.cemcosteel.com/sites/default/files/CEMCOs%20Environmental%20Product%20Declaration_EPD.pdf

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2016-07-13	2021-07-13	UL Environment

CERTIFICATION AND COMPLIANCE NOTES: Declaration number: 4787356941.101.1. Environmental Product Declaration covers the following CEMCO Cold-Formed Steel Framing Systems, including: Structural Stud and Track (ICC-ES ESR 3016); ViperStud® Interior Framing (ICC-ES ESR 2620 & ATI-ES 0154); ProX Header® (IAPMO ER-0286); SureBoard® for Shear Panels (IAPMO ER- 0126); Sure-Span® Floor Joist Framing System (ESR PENDING); CST, SLP-TRK®, and FAS Track® 1000 Brand Slotted Tracks (ICC-ES ESR 2012); USG SHAFTWALL Brand CH and H-Stud Studs and Track (AER 09038); Expanded Metal Lath Products (ICC-ES ESR 1623); Plastering Accessories (ICC-ES ESR 1623); Drywall/Interior Accessories (ICC-ES ESR 3016); Connectors, Clips, and Channels (ICC-ES ESR 3016).

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.

"SB" SURE-BRIDGING

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Used during installation of Sure-Span Floor Joist System to improve structural strength. "SB" Sure-Bridging is fabricated in 43 mil thickness with 1-5/16" flanges and 2-1/2" webs. Each is made in specific lengths to properly fit between the joists based upon the on-center spacing with 1-3/4" tabs to ensure proper fastening. Sure-Bridging can be used with joists having either 1-3/4" or 2" flanges only. CEMCO Sure-Bridging members are produced from hot-dipped galvanized steel in standard G60 coating. G90 is available upon special request.

Section 5: General Notes



MANUFACTURER INFORMATION

MANUFACTURER: **CEMCO**
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Suite 325
City of Industry CA 91746, USA
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 TITLE: **Director of Technical Services**
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KEY

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet
GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

Hazard Types

AQU Aquatic toxicity	GLO Global warming	PHY Physical Hazard (reactive)
CAN Cancer	MAM Mammalian/systemic/organ toxicity	REP Reproductive toxicity
DEV Developmental toxicity	MUL Multiple hazards	RES Respiratory sensitization
END Endocrine activity	NEU Neurotoxicity	SKI Skin sensitization/irritation/corrosivity
EYE Eye irritation/corrosivity	OZO Ozone depletion	LAN Land Toxicity
GEN Gene mutation	PBT Persistent Bioaccumulative Toxic	NF Not found on Priority Hazard Lists

GreenScreen (GS)

BM-4 Benchmark 4 (prefer-safer chemical)	LT-P1 List Translator Possible Benchmark 1
BM-3 Benchmark 3 (use but still opportunity for improvement)	LT-1 List Translator Likely Benchmark 1
BM-2 Benchmark 2 (use but search for safer substitutes)	LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
BM-1 Benchmark 1 (avoid - chemical of high concern)	NoGS Unknown (no data on List Translator Lists)
BM-U Benchmark Unspecified (insufficient data to benchmark)	

Recycled Types

PreC Preconsumer (Post-Industrial)
PostC Postconsumer
Both Both Preconsumer and Postconsumer
Unk Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms

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.