

HPD UNIQUE IDENTIFIER: 29074

CLASSIFICATION: 07 84 13 Penetration Firestopping

PRODUCT DESCRIPTION: FyreFlange™ Firestop Angles consist of galvanized steel retaining angles with a layer of bonded intumescent material designed to be installed around the perimeter of non-dampered square or rectangular steel ducts. Powder coated red for easy inspection and identification; FyreFlange™ Firestop Angles meet the exacting criteria of ASTM E814 (UL1479). Unlike traditional duct firestopping methods utilizing backer or packing materials, sealants, and angles installed and inspected in stages, FyreFlange™ Firestop Angle can be installed as the duct is installed and inspected just once after the installation is complete. FyreFlange™ is available as a pre-firestopped angle or as intumescent gasketing for field fabrication with 2” (51 mm) by 2” (51 mm) min 20 GA (or heavier) steel angles. Applications: FyreFlange™ Firestop Angles are engineered for use with steel ducts up to 92” x 96” (234 cm x 244 cm) installed through barriers rated up to and including 2 hours tested designs include options for non-insulated duct as well as ducts insulated with up to 2” (51 mm) thick 3/4 pcf (12 kg/m3) glass fiber duct wrap.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format	Threshold Level	Residuals/Impurities	<i>All Substances Above the Threshold Indicated Are:</i>
☐ Nested Materials Method	☐ 100 ppm	☒ Considered	Characterized ☐ Yes Ex/SC ☒ Yes ☐ No
☒ Basic Method	☒ 1,000 ppm	☐ Partially Considered	<i>% weight and role provided for all substances.</i>
Threshold Disclosed Per	☐ Per GHS SDS	☐ Not Considered	Screened ☐ Yes Ex/SC ☒ Yes ☐ No
☐ Material	☐ Other	Explanation(s) provided for Residuals/Impurities?	<i>All substances screened using Priority Hazard Lists with results disclosed.</i>
☒ Product		☒ Yes ☐ No	Identified ☐ Yes Ex/SC ☐ Yes ☒ No
			<i>One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.</i>

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

SPECSEAL® FYREFLANGE™ FIRESTOP ANGLE [GRAPHITE LT-UNK

CELLULOSE PULP NoGS 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH BUTYL 2-PROPENOATE, ETHENYLBENZENE, 2-ETHYLHEXYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE NoGS

UNDISCLOSED LT-UNK CARBON BLACK BM-1 | CAN]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

None.

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: N/A

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?	PREPARER: Self-Prepared	SCREENING DATE: 2022-07-06
☐ Yes	VERIFIER:	PUBLISHED DATE: 2022-07-06
☒ No	VERIFICATION #:	EXPIRY DATE: 2025-07-06

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

SPECSEAL® FYREFLANGE™ FIRESTOP ANGLE

RESIDUALS AND IMPURITIES CONSIDERED: Yes

OTHER PRODUCT NOTES: There are no residuals in this product.

ID: 7782-42-5

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This is part of the intumescent material in the device.

ID: 65996-61-4

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This is part of the intumescent material in the device.

ID: 82539-93-3

None found No warnings found on HPD Priority Hazard Lists

SUBSTANCE NOTES: This is part of the intumescent material in the device.

ID: Undisclosed

%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Carrier
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HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
SUBSTANCE NOTES: This is part of the intumescent material in the device.		

CARBON BLACK

ID: 1333-86-4

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2022-07-06 10:28:48		
%: 0.1000 - 1.0000	GS: BM-1	RC: None	NANO: No	SUBSTANCE ROLE: Pigment
HAZARD TYPE	AGENCY AND LIST TITLES		WARNINGS	
CAN	US CDC - Occupational Carcinogens		Occupational Carcinogen	
CAN	MAK		Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification	
CAN	CA EPA - Prop 65		Carcinogen - specific to chemical form or exposure route	
CAN	IARC		Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources	
SUBSTANCE NOTES: This is part of the intumescent material in the device.				

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	N/A		
CERTIFYING PARTY: Self-declared	ISSUE	EXPIRY	CERTIFIER
APPLICABLE FACILITIES: All.	DATE:	DATE:	OR LAB:
CERTIFICATE URL:	2017-		Self-
https://files.stfirestop.com/5.%20Safety%20Data%20Sheets/1.%20English/SDS_Closet%20Flange%20Firestop%20Gasket.pdf	01-30		declared.
CERTIFICATION AND COMPLIANCE NOTES: Not Applicable. See SDS (Certificate URL).			

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

Specifications:

The fire-rated retaining angles shall consist of powder coated galvanized steel angles with a bonded intumescent gasket and an integral corner clip assembly to join angle sections together. The fire-rated retaining angles shall provide a minimum 15x free expansion and shall contain no water soluble expansion ingredients. Fire-rated retaining angles shall be UL Classified and tested to the requirements of ASTM E814 (ANSI/UL 1479).

Specified Divisions:

Division 7 07 84 13 Penetration Firestopping

Division 22 22 00 00 Firestopping for Plumbing

Performance:

FyreFlange™ Firestop Angles are the basis for firestop systems for non-rated square or rectangular duct penetrations that meet the exacting criteria of ASTM E814 (ANSI/UL 1479). UL Systems have been tested for common forms of construction for up to 2 hours.

Features & Benefits:

- One step installation
- Economical - Saves labor
- Clearly marked for easy inspection
- Red color for easy identification
- No additional firestop or backing materials required
- Eliminates the need for multiple inspections
- Can be installed over or under duct insulation

MANUFACTURER INFORMATION

MANUFACTURER: Specified Technologies Inc.
ADDRESS: 210 Evans Way
Somerville NJ 08876, United States
WEBSITE: www.stifirestop.com

CONTACT NAME: George Gornick, LEED Green Associate
TITLE: Applications Engineer
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EMAIL: ggornick@stifirestop.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)	
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)	NoGS No GreenScreen.

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.