# SpecSeal® FyreFlange™ Firestop Angle by Specified Technologies Inc.

**Health Product Declaration v2.2**

created via: HPDC Online Builder

**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**
- ○ Nested Materials Method
- ◉ Basic Method

**Threshold Disclosed Per**
- ○ Material
- ◉ Product

**Threshold Level**
- ○ 100 ppm
- ◉ 1,000 ppm
- ○ Per GHS SDS
- ○ Other

**Residuals/Impurities**
- ◉ Considered
- ○ Partially Considered
- ○ Not Considered

**Explanation(s) provided for Residuals/Impurities?**
- ◉ Yes ○ No

*All Substances Above the Threshold Indicated Are:*

**Characterized** ○ Yes Ex/SC ◉ Yes ○ No

*% weight and role provided for all substances.*

**Screened** ○ Yes Ex/SC ◉ Yes ○ No

*All substances screened using Priority Hazard Lists with results disclosed.*

**Identified** ○ Yes Ex/SC ○ Yes ◉ No

*One or more substances not disclosed by Name (Specific or Generic) and Identifier and/ or one or more Special Condition did not follow guidance.*

### 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?
- ○ Yes
- ◉ No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:

SCREENING DATE: 2022-07-06
PUBLISHED DATE: 2022-07-06
EXPIRY DATE: 2025-07-06

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

### SPECSEAL® FYREFLANGE™ FIRESTOP ANGLE

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: There are no residuals in this product.

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

#### GRAPHITE

ID: 7782-42-5

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-07-06 10:28:46**

%: **6.0000 - 8.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Intumescent**

| 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.

#### CELLULOSE PULP

ID: 65996-61-4

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-07-06 10:28:47**

%: **4.0000 - 6.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Filler**

| 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.

#### 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH BUTYL 2-PROPENOATE, ETHENYLBENZENE, 2-ETHYLHEXYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE

ID: 82539-93-3

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-07-06 10:28:47**

%: **0.5000 - 2.0000** GS: **NoGS** RC: **None** NANO: **No** SUBSTANCE ROLE: **Binder**

| 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.

#### UNDISCLOSED

ID: Undisclosed

HAZARD SCREENING METHOD: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2022-07-06 10:28:47**

%: **0.1000 - 1.0000** GS: **LT-UNK** RC: **None** NANO: **No** SUBSTANCE ROLE: **Carrier**

| 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<br>APPLICABLE FACILITIES: All.<br>CERTIFICATE URL:<br>https://files.stifirestop.com/5.%20Safety%20Data%20Sheets/1.%20English/SDS_Closet%20Flange%20Firestop%20Gasket.pdf | ISSUE DATE:<br>2017-01-30 | EXPIRY DATE: | CERTIFIER OR LAB:<br>Self-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

## Section 6: References

### 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**
PHONE: **800-992-1180, Ext. 1013**
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
**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 (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.)
**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.*