



# CITY OF PORTLAND, OREGON - BUREAU OF DEVELOPMENT SERVICES

1900 SW Fourth Avenue, Suite 5000 • Portland, Oregon 97201 • www.portlandonline.com/bds • Fax 503-823-7425



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## Facility Permit Plan Intake Form

<b>FOR INTAKE, STAFF USE ONLY</b>	Building/Mechanical _____	Tom	192
Date Received <u>2/17/12</u>	Electrical _____		
Building Registration # _____	Plumbing _____		
Fixed Bid _____	Fire _____		
Bin # <u>B1</u>	Planning _____		
Building Permit # <u>11-199561-DFS-02-FA</u>	BES _____		
Mechanical # _____	PDOT _____		
Plumbing Permit # _____	Structural _____	Enc	
Electrical Permit # _____	Other _____		

**APPLICANT: Complete all sections below that apply to the project. Please print legibly.**

Print Name Brian Grant Sign Name BG

Street Address 6712 North Cutler Circle

City Portland State OR Zip Code 97217

Day Phone 503-283-6712 FAX 503-283-3607 email bgrant@andersen-const.com

**Plans / permits available for pick up at 1900 SW 4th Avenue, 2nd floor between 8:00 a.m. to 5:00 p.m.**

Contact Name for plan/permit pick up Brian Grant

Day Phone 503-283-6712 email bgrant@andersen-const.com

Project Building Name / # OSU Gabriel Park / Permit # 11-199561-000-00-FA

Project Address or Location 4411 Vermont Portland, OR

Project Name and Description OSU Gabriel Park - Remodel to existing Clinic Penetration Firestopping deferred submittal

Total Project Value \_\_\_\_\_ Project Reference #/Billing ID # \_\_\_\_\_

Building Contractor Andersen Construction CCB # \_\_\_\_\_

Mechanical Contractor \_\_\_\_\_ CCB # \_\_\_\_\_

Electrical Contractor \_\_\_\_\_ CCB# \_\_\_\_\_ License # \_\_\_\_\_

Plumbing Contractor \_\_\_\_\_ CCB# \_\_\_\_\_ License # \_\_\_\_\_

**Building Permit** [Y] [N] Alarms Required

No. of Stories \_\_\_\_\_ [Y] [N] Smoke Det. Req'd

Const. Type \_\_\_\_\_ [Y] [N] Sprinklers Req'd

[Y] [N] Struct. Eng / Calcs Submitted

**Mechanical Permit**

Mechanical Valuation \_\_\_\_\_

Description \_\_\_\_\_

**Electrical Permit**

Please provide a completed standard electrical permit application form. You may mail or deliver it to 1900 SW 4th Avenue, Portland, Oregon 97201 or FAX to 503-823-7425.

**Plumbing Permit**

Number of Fixtures \_\_\_\_\_

Back Flow Devices \_\_\_\_\_

Water Service (# of Feet) \_\_\_\_\_

Medical Gas \_\_\_\_\_

Other \_\_\_\_\_

11-199561-DFS-02-FA



Andersen Construction Submittal Review Page

**Andersen's Review Stamp**

<input checked="" type="checkbox"/> NO EXCEPTION TAKEN <input type="checkbox"/> MAKE CORRECTIONS NOTED <input type="checkbox"/> REVISE AND RESUBMIT <input type="checkbox"/> REJECTED
REVIEWED FOR GENERAL CONFORMITY WITH CONTRACT DOCUMENTS. SUBCONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES, DIMENSIONS, JOINERY, AND COMPLETE COMPLIANCE WITH CONTRACT DOCUMENTS
<b>ANDERSEN CONSTRUCTION CO.</b>
BY: BG
DATE: 2/15/2012
ACCO JOB # 11-5024
SUBMITTAL # 078413-01 Firestopping

**Architect's/Consultant's Review Stamp**

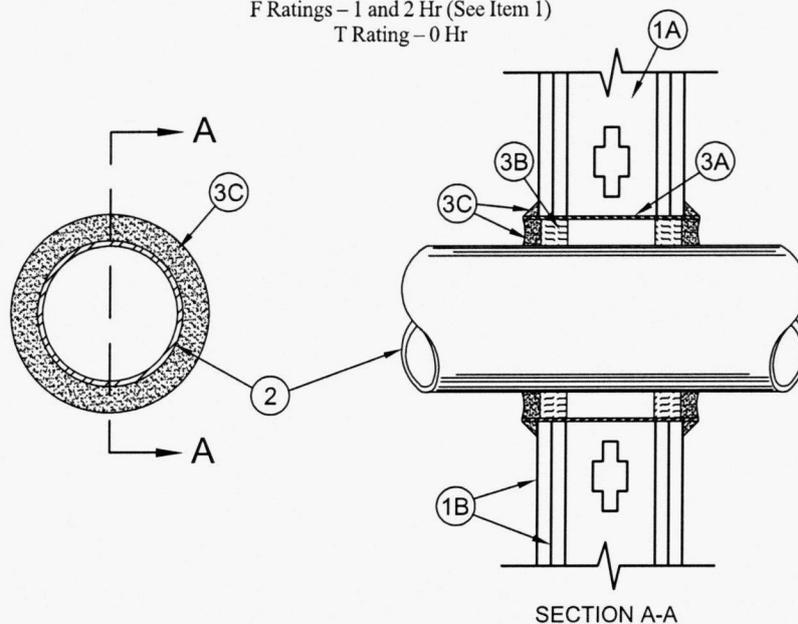


## System No. W-L-1003

February 14, 2008

F Ratings – 1 and 2 Hr (See Item 1)

T Rating – 0 Hr



1. **Wall Assembly** – The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall and Partition Design in the UL Fire Resistance Directory and shall include the following construction features:
  - A. **Studs** – Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-1/2 in. (89 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.
  - B. **Gypsum Board\*** – Nom 5/8 in. (16 mm) thick, 4 ft (1.2 m) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300, U400 or V400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 15 in. (381 mm).

**The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed.**
2. **Through Penetrant** – One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The space between pipes, conduits or tubing and the steel sleeve (Item 3A) shall be min of 0 in. (point contact) to max 2-3/8 in. (60 mm). Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
  - A. **Steel Pipe** – Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.
  - B. **Iron Pipe** – Nom 12 in. (305 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in. (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.
  - C. **Conduit** – Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in. (102 mm) diam (or smaller) steel electrical metallic tubing.
  - D. **Copper Tubing** – Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.
  - E. **Copper Pipe** – Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.
3. **Firestop System** – Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows.
  - A. **Steel Sleeve** – Cylindrical sleeve fabricated from min 0.019 in. thick (0.48 mm) galv sheet steel and having a min 2 in. (51 mm) lap along the longitudinal seam. Length of steel sleeve to be equal to thickness of wall plus 1 to 4 in. (25 to 102 mm) such that, when installed, the ends of the sleeve will project approx 1/2 to 2 in. (13 to 51 mm) beyond the surface of the wall on both sides of the wall assembly.  
Sleeve installed by coiling the sheet steel to a diam smaller than the through opening, inserting the coil through the openings and releasing the coil to let it uncoil against the circular cutouts in the gypsum board layers.
  - B. **Packing Material** – Min 1 in. (25 mm) thickness of mineral wool batt insulation firmly packed into steel sleeve on both sides of the wall assembly as permanent forms. Packing material to be recessed min 1/2 in. (13 mm) from end of steel sleeve (flush with or recessed into gypsum board surface) on both sides of wall assembly.
  - B1. **Packing Material** – (Not shown) – As an alternate to Item B, nom 1 in. (25 mm) thick polyethylene backer rod may be used. The backer rod is to be recessed within the steel sleeve a min of 1 in. (25 mm) from each surface of wall.
  - C. **Fill, Void or Cavity Materials\* – Caulk or Sealant** – When mineral wool batt insulation is used, caulk or sealant applied to fill the steel sleeve to a min depth of 1/2 in. (13 mm) on both sides of wall assembly. When backer rod is used, a min thickness of 1 in. (25 mm) of caulk or sealant is required flush with both sides of wall. A nom 1/4 in. (6 mm) diam continuous bead of caulk or sealant shall be applied around the circumference of the steel sleeve at its egress from the gypsum board layers on both sides of the wall assembly.

3M COMPANY – CP 25WB+, IC 15WB+ or FB-3000 WT

\*Bearing the UL Classification Mark

This material was extracted and drawn by 3M Fire Protection Products from the 2008 edition of the UL Fire Resistance Directory. 

# 3M™ Fire Barrier Sealant CP 25WB+

## Product Data Sheet

### 1. Product Description

3M™ Fire Barrier Sealant CP 25WB+ is a high-performance, ready-to-use, gun-grade, latex-based, intumescent sealant that dries to form a monolithic fire-stop seal that also acts as a barrier to airborne sound transmission. 3M™ Fire Barrier Sealant CP 25WB+ helps control the spread of fire, smoke and noxious gasses before, during and after exposure to a fire when installed in accordance with a listed through penetration or fire-resistive joint assembly system.

3M™ Fire Barrier Sealant CP 25WB+ firestops blank openings and penetrations passing through fire-rated floor, floor/ceiling or wall assemblies and other fire-rated interior building construction. The unique intumescent property of this material allows 3M™ Fire Barrier Sealant CP 25WB+ to expand and help maintain a firestop penetration seal for up to 4 hours as penetrants are exposed to fire. 3M™ Fire Barrier Sealant CP 25WB+ exhibits excellent adhesion to a full range of construction substrates and penetrants. No mixing is required.



High-performance firestop sealant that also helps minimize sound transfer

Product Color: ■ Red

### Product Features

- Firestop tested up to 4 hours in accordance with ASTM E 814 (UL 1479) & CAN/ULC S115
- Fire Resistance tested for static construction joint systems in accordance with ASTM E 1966 (UL 2079)
- Re-enterable / repairable
- Meets UL 1479 aging requirements
- Helps minimize sound transfer\*
- Applied with conventional caulking equipment (excellent caulk rate)
- Extensive listed systems
- Sag-resistant
- Halogen-free
- Excellent adhesion
- Paintable
- Water clean up

*Meets the intent of LEED® VOC regulations—helps reduce the quantity of indoor air contaminants that may be odorous, irritating and harmful to the comfort and well-being of the installers and occupants. <250 g/L VOC contents (less H<sub>2</sub>O and exempt solvents).*

*\*Minimizes noise transfer—STC-Rating of 54 when tested in STC 54-rated wall assembly.*

### 2. Applications

High-performance 3M™ Fire Barrier Sealant CP 25WB+ is ideal for sealing single or multiple through penetrations in fire-rated construction. 3M™ Fire Barrier Sealant CP 25WB+ is typically used in mechanical, electrical and plumbing applications to firestop openings created by the following penetrations in fire-rated floors, floor/ceilings or walls: metallic pipe, plastic pipe (excluding CPVC), conduit, power and communication cable, cable trays, busways, combos, insulated pipe and HVAC duct penetrations. 3M™ Fire Barrier Sealant CP 25WB+ is also used to firestop blank openings and static construction joints.

### 3. Specifications

3M™ Fire Barrier Sealant CP 25WB+ shall be a one component, ready-to-use, gun-grade, latex-based, intumescent firestop sealant capable of expanding a minimum of 3 times its dried volume when exposed to temperatures above 1000°F (538°C). The material shall be thixotropic and shall be applicable to overhead, vertical and horizontal firestops. The sealant shall be listed by independent test agencies such as UL, Intertek or FM. 3M™ Fire Barrier Sealant CP 25WB+ shall be tested to and pass the criteria of ASTM E 814 (UL 1479) Standard Test Method for Fire Tests of Penetration Firestop Systems, ASTM E 1966 (UL 2079) Standard Test Method for Fire Resistive Joint Systems and CAN/ULC S115 Standard Method of Fire Tests of Firestop Systems. 3M™ Fire Barrier Sealant CP 25WB+ meets the requirements of the IBC, IRC, IFC, IPC, IMC, NFPA 5000, NEC (NFPA 70) and NFPA 101.

Typically Specified Division  
Division 7

Section 07 84 00 – Firestopping

Related Sections

Section 07 84 16 – Annular Space Protection

Section 07 84 43 – Fire-Resistant Joint Sealants

Section 07 86 00 – Smoke Seals

Section 07 87 00 – Smoke Containment Barriers

Section 07 27 00 – Air Barriers

Section 21 00 00 – Fire Suppression

Section 22 00 00 – Plumbing

Section 26 00 00 – Electrical

FIRE BARRIER SMOKE SEAL



SOUND BARRIER



FILL, VOID OR CAVITY MATERIAL  
FOR USE IN THROUGH-PENETRATION  
FIRESTOP SYSTEMS  
SEE UL FIRE RESISTANCE DIRECTORY  
90G9



LISTED

FILL, VOID OR CAVITY  
MATERIALS  
90G9



APPROVED

SUBJECT TO THE CONDITIONS OF APPROVAL  
AS A WALL & FLOOR PENETRATION  
FIRESTOP WHEN INSTALLED AS DESCRIBED  
IN THE CURRENT EDITION OF THE FMRC  
APPROVAL GUIDE

LISTED



Intertek  
FIRESTOP SYSTEMS  
SEE INTERTEK DIRECTORY

LISTED



Intertek

FIRESTOP SYSTEMS  
SEE INTERTEK DIRECTORY

For technical support relating to 3M Fire Protection Products and Systems, call: 1-800-328-1687

For more information on 3M Fire Protection Products, visit: [www.3m.com/firestop](http://www.3m.com/firestop)

## 4. Physical Properties

<b>Color:</b>	Red	<b>Hardness (ASTM D 2240 Shore A):</b>	45
<b>Application Temperature Range:</b> (ASTM C 1299)	40° to 122°F (4° to 50°C)	<b>Tensile Strength:</b>	85 psi (0.59 MPa)
<b>Service Temperature Range:</b>	-20° to 180°F (-28° to 82°C)	<b>Volume Shrinkage (ASTM C 1241):</b>	28%
<b>STC (ASTM E 90 and ASTM E 413):</b>	54 when tested in STC 54-rated wall assembly	<b>VOC Less H<sub>2</sub>O and Exempt Solvents:</b>	<1 g/L
<b>Surface Burning (ASTM E 84):</b>	Flame Spread 0 Smoke Development 0	<b>Dry:</b>	Under typical conditions of 75°F (23°C) and 50% R.H., sealant becomes tack-free in about ten minutes and dry-to-touch in 30 to 60 minutes. Full dry depends upon ambient conditions and volume of sealant. Typical dry rate is approximately 1/8 inch (3 mm) per day.

Unit Volume: 10.1 fl. oz tube (298.7 mL, 18.2 in.<sup>3</sup>), 20 fl. oz. sausage (591.5 mL, 36.1 in.<sup>3</sup>), 27 fl. oz tube (798.5 mL, 48.7 in.<sup>3</sup>), 2 gal. pail (7.57 L, 462 in.<sup>3</sup>), 5 gal. pail (18.9 L, 1155 in.<sup>3</sup>)

## 5. Packaging, Storage, Shelf Life

<b>Packaging</b>	Product packaged in cartridge or pail is enclosed in HDPE plastic containers, sausage is packaged in aluminum foil wrap
<b>Storage</b>	3M™ Fire Barrier Sealant CP 25WB+ should be stored indoors in dry conditions between 40°F and 90°F (4°C and 32°C) in the original unopened package. Avoid repeated freeze / thaw exposures of the 3M™ Fire Barrier Sealant CP 25WB+ prior to installation.
<b>Shelf Life</b>	3M™ Fire Barrier Sealant CP 25WB+ shelf life is 12 months in original unopened containers from date of packaging when stored above 68°F (2°C).  Lot numbering (e.g. 8183AS): First digit = Last digit of year manufactured, Second to fourth digit = Julian Date, Letters = Random to distinguish between lot numbers

## 6. Installation Techniques

*Consult a 3M Authorized Fire Protection Products Distributor / Dealer or Sales Representative for Applicable UL, Intertek or other third-party drawings and system details.*

<b>Preparatory Work</b>	The surface of the opening and any penetrating items should be cleaned to allow for the proper adhesion of the 3M™ Fire Barrier Sealant CP 25WB+. Ensure that the surface of the substrates are not wet and are frost free. Sealant can be installed with a standard caulking gun, pneumatic pumping equipment or it can be easily applied with a putty knife or trowel.
<b>Installation Details</b>	Install the applicable depth of backing material, if required, as detailed within the applicable UL, Intertek, FM or other third-party listed system. Cut the end of the 3M™ Fire Barrier Sealant CP 25WB+ tube spout to achieve the desired bead width when applying. Install the applicable depth of 3M™ Fire Barrier Sealant CP 25WB+ into the opening flush with the surface of the substrate, or as detailed within the applicable listed system, at the depth for the assembly and rating that is required. Tool within 5 minutes. Clean all tools immediately after use with water.
<b>Limitations</b>	Do not apply 3M™ Fire Barrier Sealant CP 25WB+ when surrounding temperature is less than 40°F (4°C) and in conditions where seals may be exposed to rain or water spray within 18 hours of application. Do not apply 3M™ Fire Barrier Sealant CP 25WB+ to building materials that bleed oil, plasticizers or solvent (e.g. impregnated wood, oil-based sealants, or green or partially vulcanized rubber). Do not apply 3M™ Fire Barrier Sealant CP 25WB+ to wet or frost-coated surfaces or to areas that are continuously damp or immersed in water.

**NOTICE:** This product is not acceptable for use with chlorinated polyvinylchloride (CPVC) pipes.

## 7. Maintenance

No maintenance should be required when installed in accordance with the applicable UL, Intertek, FM or other third-party listed system. Once installed, if any section of the 3M™ Fire Barrier Sealant CP 25WB+ is damaged, the following procedure will apply: remove and reinstall the damaged section in accordance with the applicable listed system, with a minimum 1/2 in. (12.7 mm) overlap onto the adjacent material.

## 8. Availability

3M™ Fire Barrier Sealant CP 25WB+ is available from 3M Authorized Fire Protection Products Distributors and Dealers. 3M™ Fire Barrier Sealant CP 25WB+ is available in 10.1 fl. oz. cartridges (12/case), 20.0 fl. oz. sausages (10/case), 27.0 fl. oz. cartridges (6/case), 2 gallon pails (1/case) and 5 gallon pails (1/case). For additional technical and purchasing information regarding this and other 3M Fire Protection Products, please call: 1-800-328-1687 or visit [www.3m.com/firestop](http://www.3m.com/firestop).

## 9. Safe Handling Information

*Consult product's Material Safety Data Sheet (MSDS) prior to handling and disposal.*

### Important Notice to User:

**Technical Information:** The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

**Product Use:** Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

**Warranty and Limited Remedy:** 3M warrants that each 3M Fire Protection Product will be free from defects in material and manufacture for 90 days from the date of purchase from 3M's authorized distributor. 3M MAKES NO OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If a 3M product does not conform to this warranty, the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

**Limitation of Liability:** Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted.

**3M**

### Building and Commercial Services Division

3M Center, Building 223-2N-21  
St. Paul, MN 55144-1000 USA  
1-800-328-1687

[www.3m.com/firestop](http://www.3m.com/firestop)

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