



Aussie Shield™ 300-PLM

Permeable Liquid Membrane (Air Barrier)

Silyl Terminated Polymer (STP) Technology

Section 072726
Fluid-Applied Membrane Air-Barrier

Product Name

Aussie Shield™ 300-PLM

Permeable Liquid Membrane (Air Barrier)
Silyl Terminated Polymer (STP) Technology

By

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA 91304
888.414.1041 818.888.0050
www.avmindustries.com

Product Description

Aussie Shield™ PLF-300 is one-component Silyl Terminated Polymer (STP) Membrane intended for use as a sprayable/rollable permeable liquid applied Air Barrier Membrane. (In some applications, it may also be used as a Permeable Liquid Applied Flashing) **Aussie Shield™ 300-PLM** is solvent free, isocyanate free, and bonds to most common building materials without priming. It forms a seamless flexible barrier that prevents penetration of unwanted water and air through the building envelope while being breathable to allow damp surfaces to dry. It may be exposed to UV light and weather for up to 12 months.

Applicable Standards

- ABAA S0008
- ASTM E2357
- ASTM E84, Class-A Rating
- AAMA 714-19

Where to Use

Aussie Shield™ 300-PLM May be used on sheathing, such as Dens Glass, Plywood, CMU, Concrete and other common wall substrates. (It may also be used around windows, penetrations and other irregular surfaces when used as a Permeable Liquid Flashing).

Aussie Shield™ 300-PLM adheres well to a wide variety of substrates, generally with no primer required. It can bond to damp substrates and cure in wet weather. It may be left exposed to U.V. up to 12 months. For longer exposures, contact AVM.

Substrate Preparation

Bonding surfaces must be structurally sound, clean, free of oxidation, mill oils, wax, and release agents that may interfere with adhesion. Surfaces may be damp/wet, but must be free of standing or ponding water.

Application

Aussie Shield 300-PLM may be spray applied or rolled. The recommended application thickness of the 300-PLM liquid membrane is 20 mils Dry Film Thickness. (Minimum 15 mils DFT and Maximum 30 mils DFT). The estimated coverage is 60-110 Sq.Ft. per gallon depending on surface porosity, application method and other factors. Surfaces must be clean and free of contaminants. It is recommended to test substrate compatibility with the **Aussie Shield™ 300-PLM** prior to full application. Curing/drying times will vary based on temperatures, Humidity and other factors.

Application temperatures: Above 40°F. (4.4°C)
For applications below 40°F, contact AVM for details.

If your project requirements do not conform to the above requirements, please contact your local AVM rep for further instructions.

Limitations:

- ICF: Do not apply over Insulated Concrete Forms (ICF). If using ICF, contact AVM for recommendations.
- Not for use in below grade waterproofing applications
- Not for use in submerged applications
- May be incompatible with some asphaltic materials or butyl adhesives. Always test to verify.

Limited Warranty

For complete warranty details, contact AVM Industries or consult with your applicator. AVM Industries, Inc., warrants this product to be free from defects. TO THE MAXIMUM EXTENT ALLOWED BY LAW, AVM INDUSTRIES DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. UNLESS OTHERWISE STATED IN THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS TO SUPPLY SUFFICIENT PRODUCT TO RE-TREAT THE SPECIFIC AREAS TO WHICH THE DEFECTIVE PRODUCT HAS BEEN APPLIED. AVM INDUSTRIES DISCLAIMS ANY LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES TO THE MAXIMUM EXTENT ALLOWED BY LAW. DISCLAIMERS OF IMPLIED WARRANTIES MAY NOT BE APPLICABLE TO CERTAIN CLASSES OF BUYERS AND SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU. It is the buyer's obligation to test the suitability of the product for its intended use prior to using it. Any claim for a defective product must be filed within 30 days of discovery of a problem and must be submitted with written proof of purchase.

Key Features

- Can be applied to Damp Surfaces
- 20.5 Perms at 15 Mil Thick
- Sprayable and Rollable

Legal Disclaimer

All information contained herein is believed to be accurate as of the date of publication, is provided "as-is" and is subject to change without notice. This is not a warranty, an agreement, or substitute for expert or professional advice. AVM Industries expressly disclaims and assumes no liability for the use of the products or reliance on this information. It is the sole responsibility of the user to determine the suitability of any products for the user's application(s).

Delivery, Storage, and Handling

- a. Delivery of the **Aussie Shield™ 300-PLM** materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.
- b. Shelf Life: 18 months from date of manufacture when stored in an unopened package and in a dry place at temperatures between 41°F to 86°F (+5°C to + 30°C). High temperature may significantly reduce shelf life. Do not store materials in direct sunlight or where they may be damaged by water or rain.
- c. Failure to comply with the recommended storage conditions may result in premature deterioration of the product.
- d. Keep all materials out of the reach of children.

Quality Control

- a. Visually inspect all coated surfaces to ensure a full and proper application, especially at penetrations, seams, corners, drainage footings and other hard-to-reach areas.
- b. All unsatisfactory areas shall be repaired prior to final acceptance.

Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

Technical Services

Technical services are available by contacting our offices at: **888.414.1041** or **818.888.0050** or visit **www.avmindustries.com**

System Specifications

See next page.

Product Specifications

All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage. Visit www.avmindustries.com for the Safety Data Sheet and pertinent documentation.

| Description | Results |
|-------------------------------------|--|
| Basic Composition | Silyl Terminated Polymer |
| Application Temperature | ≥ 40°F (4.4°C) |
| Application Thickness | 15-20 mils Dry Film Thickness (DFT) |
| Temperature Resistance | 248°F (120°C) |
| UV and Weather Resistance | Excellent |
| Skin Time | 40-50 min (highly dependent on humidity and temperature) |
| Sag | Negligible at thicknesses of 14-60 mils |
| Hardness, Shore A (ASTM C661) | 21 |
| Tensile Strength (ASTM D412) | 180 psi (1.24 MPa) |
| Elongation at Break (ASTM D412) | 230% |
| Water Vapor Transmission (ASTM E96) | 20.5 perms (15 mil thickness) |

ABAA S0008-2021: Standard for Air and Water-Resistive Barriers - Fluid Applied Membrane - Material Specification

| Test | Criteria | Results |
|--|----------------------------|---|
| Water Vapor Transmission (ASTM E96) | Report | Wet Cup: 20.5 perms Dry Cup: 13.6 perms |
| Air Permeance (ASTM E2178) | ≤0.2 L/s.m2 at 75 Pa | Pass |
| Alkali Resistance (ASTM D543) | No deleterious effects | Pass |
| Elongation at Break (ASTM D412) | ≥200% | Pass |
| Tensile Strength (ASTM D412) | Report | 183 psi |
| Freeze Thaw Resistance (ASTM E2485) | No surface changes | Pass |
| Fungi Resistance (ASTM C1338) | No growth | Pass |
| Gap Bridging (ABAA T0004) | No adverse surface effects | Pass |
| Low Temperature Flexibility (ASTM D522) | No surface changes | Pass |
| Peel Adhesion to Concrete (ASTM C794) | ≥5 pli | Pass |
| Pull Adhesion (ABAA T0002) | ≥16 psi | Pass |
| Water Absorption by Diffusion (ASTM C1498) | Report | 1.2% |
| Water Resistance (ASTM D2247) | No adverse surface effects | Pass |

AAMA 714-19: Voluntary Specification for Liquid-Applied Flashing used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings

| Test | Criteria | Results |
|---|--|---------|
| Adhesive Strength to Substrates (ASTM C794) | ≥5 pli | Pass |
| Water Penetration Around Nails (ASTM D1970) | Shall pass 1.2 in (31 mm) of water | Pass |
| Accelerated UV Aging (ASTM G154, ASTM C794) | ≥5 pli | Pass |
| Elevated Temperature (AAMA 711, ASTM C794) | ≥5 pli | Pass |
| Thermal Cycling (AAMA 711, ASTM C794) | ≥5 pli | Pass |
| Crack Bridging (ASTM C1305) | Water holdout of 550mm for 24hr with 1/16" crack | Pass |
| Water Immersion (AAMA 711, ASTM C794) | ≥5 pli | Pass |

ASTM E2357: Standard Test Method for Determining Air Leakage of Air Barrier Assemblies

| Test | Criteria | Results |
|--------------------|----------------------------|---------|
| System Air Leakage | ≤ 0.2 L/s.m² at 75 Pa | Pass |
| | ≤ 0.04 cfm/ft² at 1.57 psf | Pass |

ASTM E84: Surface Burning Characteristics (Class A)

| Test | Criteria | Results |
|-----------------|----------|---------|
| Flame Spread | ≤25 | 25 |
| Smoke Developed | ≤450 | 90 |

Packaging

| Item/Component | Item Size | Qty per Pallet | Weights | | VOC |
|----------------|--------------|----------------|---------|----------|---------|
| | | | Bucket | Pallet | |
| 300-PLM | 5-Gal Bucket | 36 Buckets | 50 Lbs | 1900 Lbs | <21 g/l |

For a complete list of details in CAD or PDF, please visit our website at www.avmindustries.com.

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Silyl Terminated Polymer (STP) Technology

Section 072726

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Product Description

Aussie Shield™ 300-PLF is a one-component Silyl Terminated Polymer sealant intended for use as a permeable liquid applied flashing product. **Aussie Shield 300-PLF** is solvent free, isocyanate free, and bonds to most common building materials without priming. It forms a seamless flexible barrier that prevents penetration of unwanted water and air through the building envelope while being breathable to allow damp surfaces to dry. It may be exposed to UV light and weather for up to 12 months.

Where to Use

Aussie Shield 300-PLF May be used around windows, penetrations and other irregular surfaces. May be applied over Dens Glass, Plywood, Concrete and other common substrates.

Aussie Shield 300-PLF adheres well to a wide variety of substrates, generally with no primer required. It can bond to damp substrates and cure in wet weather.

Substrate Preparation

Bonding surfaces must be structurally sound, clean, free of oxidation, mill oils, wax, and release agents that may interfere with adhesion. Surfaces may be damp/wet, but must be free of standing or ponding water.

Application

The recommended application thickness is 12-15 wet mils. At this thickness, the estimated coverage is 15 - 25 sq ft per 20 oz sausage. Substrate will impact coverage rate. Surfaces must be clean and free of contaminants. It is recommended to test substrate compatibility with the **Aussie Shield 300-PLF** prior to full application. Curing/drying times will vary based on temperatures, Humidity and other factors.

Application temperatures: Above 40°F. (4.4°C)
For applications below 40°F, contact AVM for details.

If your project requirements do not conform to the above requirements, please contact your local AVM rep for further instructions.

Limited Warranty

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Delivery, Storage, and Handling

- Delivery of the **Aussie Shield 300-PLF** materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.
- Shelf Life: Eighteen months in an unopened package from date of manufacture when stored at 41°F to 86°F (5°C to 30°C) with 50% relative humidity. High temperature may significantly reduce shelf life. Do not store materials in direct sunlight or where they may be damaged by water or rain.
- Failure to comply with the recommended storage conditions may result in premature deterioration of the product.
- Keep all materials out of the reach of children.

Quality Control

- Visually inspect all coated surfaces to ensure a full and proper application, especially at penetrations, seams, corners, drainage footings and other hard-to-reach areas.
- All unsatisfactory areas shall be repaired prior to final acceptance.

Availability and Cost

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Product Specifications

All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage. Visit www.avmindustries.com for the Safety Data Sheet and pertinent documentation.

| Description | Results |
|-------------------------------------|---|
| Basic Composition | Silyl Terminated Polymer (STP) Technology |
| Application Temperature | Above 40°F (4.4°C) |
| Application Thickness | 12-15 Mils |
| Hardness, Shore A (ASTM C661) | 25-35 |
| Tensile Strength (ASTM D412) | >120 PSI |
| Elongation at Break (ASTM D412) | >300% |
| Water Vapor Transmission (ASTM E96) | 13.6 Perms |
| Total Solids | >97% |

AAMA 714-19: Voluntary Specification for Liquid-Applied Flashing used to Create a Water-Resistive Seal around Exterior Wall Openings in Buildings

| Test | Criteria | Results |
|---|--|---------|
| Adhesive Strength to Substrates (ASTM C794) | ≥5 pli | Pass |
| Water Penetration Around Nails (ASTM D1970) | Shall pass 1.2 in (31 mm) of water | Pass |
| Accelerated UV Aging (ASTM G254, ASTM C794) | ≥5 pli | Pass |
| Elevated Temperature (AAMA 711, ASTM C794) | ≥5 pli | Pass |
| Thermal Cycling (AAMA 711, ASTM C794) | ≥5 pli | Pass |
| Crack Bridging (ASTM C1305) | Water holdout of 550mm for 24hr with 1/16" crack | Pass |
| Water Immersion (AAMA 711, ASTM C794) | ≥5 pli | Pass |
| Water Vapor Permeability (ASTM E96) | ≥10 perms at recommended thickness | Pass |

ASTM E84: Surface Burning Characteristics (Class A)

| Test | Criteria | Results |
|-----------------|----------|---------|
| Flame Spread | ≤25 | 5 |
| Smoke Developed | ≤450 | 10 |

Packaging

| Item/Component | Item Size | Qty / Box | Qty per Pallet | Weights | | | VOC |
|-------------------------|------------------|---------------|-----------------------------|----------|-----------|-----------|---------|
| | | | | Each | Box | Pallet | |
| Aussie Seal M Cartridge | 10.1 oz (300 ml) | 12 Cartridges | 105 Boxes / 1260 Cartridges | 1.0 lbs. | 12.2 lbs. | 1281 lbs. | <20 g/l |
| Aussie Seal M Sausage | 20 oz (600 ml) | 12 Sausages | 45 Boxes / 540 Sausages | 2.0 lbs. | 24.4 lbs. | 1098 lbs. | <20 g/l |

For a complete list of details in CAD or PDF, please visit our website at www.avmindustries.com.

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Safety Data Sheet

1. Product and Company Identification

Product Name: Aussie Shield 300-PLF (Permeable Liquid Flashing)

Product Use: Adhesive and sealant

Uses Advised Against: None known.

Manufacturer: AVM Industries, Inc.
8245 Remmet Ave, Canoga Park CA 91304-4133
www.avmindustries.com

Information Phone Number: (818) 888-0050

Emergency Phone Number: Chemtrec 800-424-9300

SDS Date of Preparation: June 7, 2024

2. Hazards Identification

GHS Classification:

| Physical: | Health: |
|---------------|---|
| Not Hazardous | Skin Sensitizer Category 1 Reproductive Toxicity Category 1B |

GHS Label Elements:

Danger!



H317 May cause an allergic skin reaction.

H360 May damage fertility or the unborn child.

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P261 Avoid breathing dust or vapors.

P272 Contaminated work clothing must not be allowed out of the workplace.

P280 Wear protective gloves, protective clothing, and eye protection.

P308 + P313 IF exposed or concerned: Get medical attention.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

Hazards not otherwise specified: None.

3. Composition/Information on Ingredients

| Component | CAS No. | Amount |
|-------------------|-----------|--------|
| Limestone | 1317-65-3 | 30-60% |
| Calcium Carbonate | 471-34-1 | 1-5% |

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| | | |
|---|------------|---------|
| Titanium Dioxide* | 13463-67-7 | 1-5% |
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine | 1760-24-3 | 0.1-<1% |
| Dibutyltin bis(acetylacetonate) | 22673-19-4 | 0.1-<1% |
| Crystalline Silica* | 14808-60-7 | 0.1-<1% |

*The Crystalline Silica, and Titanium Dioxide in this product are inextricably bound in the polymer matrix in a manner that no exposure occurs during normal use and handling. Therefore, this product is not classified as a carcinogen.

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Skin Contact: Remove contaminated clothing. Wash the contact area thoroughly with soap and water for several minutes. Get medical attention if irritation or rash occurs. Launder clothing before re-use.

Eye Contact: Flush eyes thoroughly with large quantities of water for several minutes, while holding the eye lids open to be sure the material is washed out. Remove contact lenses if present and easy to do and continue rinsing. Get medical attention if irritation occurs and persists.

Ingestion: Wash mouth with water. Do not induce vomiting. Seek medical attention if you feel unwell.

Most Important Symptoms: Direct contact with eyes may cause eye irritation. May cause skin sensitization. Inhalation of dust from dried paste may cause irritation to mucous membranes and respiratory tract. This product contains Dibutyltin bis(acetylacetonate) which may cause reproductive harm.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention is generally not required.

5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any extinguishing media that is appropriate for the surrounding fire.

Specific Hazards Arising from the Chemical: Product is not flammable, combustible, or explosive.

Special Fire Fighting Procedures: Use measures appropriate for the fire situation. Cool fire exposed containers with water.

6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing and respiratory protection (see Section 8). Avoid breathing dust from dried product.

Methods and Materials for Containment and Clean-Up: Cover with an inert absorbent material and collect into an appropriate container for disposal.

Environmental Precautions: Report spills and releases as required to appropriate authorities.

7. Handling and Storage

Precautions for Safe Handling: Use with adequate ventilation. Avoid inhalation of dust or vapor. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Avoid unnecessary contact with the product. Use appropriate protective clothing and equipment. Wash thoroughly after handling. Remove

Safety Data Sheet

contaminated clothing and launder before re-use. Do not eat, drink, or smoke in the work area. Keep containers closed when not in use.

Empty containers may contain product residue and may be hazardous. Follow all SDS precautions in handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store locked up. Store in cool, dry area. Keep containers closed. Store away from strong acids, bases, oxidizers, and moisture.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

| CHEMICAL | EXPOSURE LIMIT |
|--|--|
| Limestone (Calcium carbonate) | 15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable fraction) |
| Calcium Carbonate | 15 mg/m ³ TWA OSHA PEL (Total dust) 5 mg/m ³ TWA OSHA PEL (Respirable fraction) |
| Titanium Dioxide* | 0.2 mg/m ³ TWA ACGIH TLV (Respirable) nanoscale 2.5 mg/m ³ TWA ACGIH TLV (Respirable) finescale 15 mg/m ³ TWA (Total dust) OSHA PEL |
| N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine | None Established |
| Dibutyltin bis(acetylacetonate) (as Tin, organic compounds, as Sn) | 0.1 mg/m ³ TWA, 0.2 mg/m ³ STEL ACGIH TLV (skin) 0.1 mg/m ³ TWA OSHA PEL |
| Crystalline Silica* | 0.025 mg/m ³ TWA, ACGIH TLV 0.05 mg/m ³ TWA OSHA PEL |

*The Crystalline Silica, and Titanium Dioxide in this product are inextricably bound in the polymer matrix in a manner that no exposure occurs during normal use and handling. Therefore, this product is not classified as a carcinogen

Appropriate Engineering Controls: Use adequate general or local exhaust ventilation to maintain exposures below applicable occupational exposure limits.

Personal Protective Equipment

Respiratory Protection: In operations where the occupational exposure limits are exceeded or exposure levels are excessive, an approved respirator with applicable cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Gloves: Wear impervious gloves to avoid skin contact.

Eye Protection: Safety goggles or safety glasses with side shields are recommended.

Other Protective Equipment/Clothing: Wear protective clothing as needed to avoid skin contact and contamination of personal clothing.

9. Physical and Chemical Properties

Appearance and Odor: Colored Paste. Odorless.

| | |
|--|---|
| Physical State: Solid | Odor Threshold: Not applicable |
| pH: Not applicable | Specific Gravity: Not determined |
| Initial Boiling Point/Range: Not applicable | Vapor Pressure: Not determined |
| Melting/Freezing Point: Not applicable | Vapor Density: Not applicable |
| Solubility In Water: Not determined | Percent Volatile: <3% |
| Viscosity: Not applicable | Evaporation Rate: Not determined |

Safety Data Sheet

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|--|--|
| Relative Density: 1.6 – 1.7 | VOC Content: <20 g/L / 2% |
| Coefficient Of Water/Oil Distribution: Not determined | Autoignition Temp: Not determined |
| Flash Point: 140 °C / 284 °F | Flammability (solid, gas): Not applicable |
| Flammability Limits: Not applicable | Decomposition Temperature: Not applicable |
| Particle Characteristics: Not determined | |

10. Stability and Reactivity

Reactivity: Product cures with moisture.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions of storage and use.

Conditions to Avoid: Open flames. Unintentional exposure to moisture.

Incompatible Materials: Strong oxidizers, strong acids, and bases. Moisture.

Hazardous Decomposition Products: Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and are released upon curing.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: Inhalation of dust from dried paste may cause mucous membrane and respiratory irritation.

Skin Contact: Direct contact may cause an allergic skin reaction (sensitization).

Eye Contact: Direct contact with eyes may cause irritation.

Ingestion: May cause irritation and discomfort to the digestive tract.

Chronic Effects: None known.

Carcinogenicity: Not classified. Titanium Dioxide is listed as Possibly Carcinogenic to Humans (Group 2B) by IARC. Crystalline Silica is listed as Carcinogenic to Humans (Group 1) by IARC, Known to Be a Human Carcinogen by NTP, and as a Carcinogen by OSHA. Titanium dioxide, and Crystalline Silica only presents a risk of cancer by inhalation of very fine dust. In this product, the Titanium dioxide and Crystalline Silica are incorporated into the polymer matrix and are not present as respirable dust. There is no exposure to respirable dust in the normal use of this product. None of the other components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: This product contains Dibutyltin bis(acetylacetonate) which may cause reproductive harm.

Germ Cell Mutagenicity: Not classified.

Numerical Measures of Toxicity:

Product ATE: 6,434.80 mg/kg (Oral), 2,064.40 mg/kg (skin), 213.40 mg/L (Inhalation, vapor), 99,999 mg/L (Inhalation, as dust/mist)

N-[3-(Trimethoxysilyl)propyl]-1,2-ethanediamine:

Dibutyltin Bis(acetylacetonate): LD50: Oral rat 1,864 mg/kg, LD50: Dermal rat >2,000 mg/kg.

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12. Ecological Information

Ecotoxicity:

Dibutyltin Bis(acetylacetonate): 96 hr LC50 Oryzias Latipes- >2 mg/L, 48 hr EC50 Daphnia magna-0.0036 mg/L, 72 hr EC50 Desmodesmus subspicatus- >2 mg/L.

This product is expected to be harmful to the aquatic environment with long-term adverse effects. Releases to the environment should be avoided.

Persistence and Degradability: Dibutyltin Bis(acetylacetonate) is not readily biodegradable.

Bio accumulative Potential: Not expected to be bio accumulative.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations

Dispose of in accordance with all local, state/provincial and federal regulations. Offer empty containers for recycling.

14. Transport Information

DOT Hazardous Materials Description: Not regulated.

IMDG Dangerous Goods Description: Not regulated.

IATA Dangerous Goods Description: Not regulated.

Transport in Bulk According to IMO Instruments: Not applicable.

Special Precautions for User: Not applicable

15. Regulatory Information


United States:

EPA TSCA INVENTORY: All the components in this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory.

CERCLA Section 103: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Classified under OSHA Hazcom 2012 GHS as per Section 2 of this SDS.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65:  **WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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| 16. Other Information |
|------------------------------|

DATE OF CURRENT REVISION: June 7, 2024
REVISION SUMMARY: New SDS
DATE OF PREVIOUS REVISION: N/A

This information is provided in good faith and is correct to the best of AVM Industries' knowledge as of the date hereof and is designed to assist our customers; however, AVM makes no representation as to its completeness or accuracy. This product is intended for sale to mainly professional contractor. We require customers to satisfy themselves as to the suitability for their specific applications. Any use which AVM Industries customers or third parties make of this information, or any reliance on, or decisions made based upon it, are the responsibility of such customer or third party. AVM Industries disclaims responsibility for damages, or liability of any kind resulting from the use of this information. THERE ARE NO WARRANTIES OR REPRESENTATIONS, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THIS INFORMATION OR TO THE PRODUCT IT DESCRIBES. IN NO EVENT SHALL AVM INDUSTRIES BE LIABLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES.

Safety Data Sheet

1. Product and Company Identification

Product Name: Aussie Shield 300-PLM (Permeable Liquid Membrane)

Product Use: Sealant and adhesive

Uses Advised Against: None known.

Manufacturer: AVM Industries, Inc.
8245 Remmet Ave, Canoga Park CA 91304-4133
www.avmindustries.com

Information Phone Number: (818) 888-0050

Emergency Phone Number: Chemtrec 800-424-9300

SDS Date of Preparation: June 24, 2024

2. Hazards Identification

GHS Classification:

| | |
|------------------|----------------|
| Physical: | Health: |
| Not Hazardous | Not Hazardous |

GHS Label Elements: None.

Hazards not otherwise specified: None.

3. Composition/Information on Ingredients

| Component | CAS No. | Amount |
|-------------------|------------|--------|
| Limestone | 1317-65-3 | 30-60% |
| Calcium Carbonate | 471-34-1 | 1-<5% |
| Titanium Dioxide* | 13463-67-7 | 1-<5% |

*Titanium Dioxide in this product is inextricably bound in a manner that no exposure occurs during normal use and handling. Therefore, this product is not classified as a carcinogen.

The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

4. First Aid Measures

Inhalation: Remove victim to fresh air. If breathing is difficult or irritation persists, get medical attention.

Skin Contact: Wash skin with soap and water. Get medical attention if irritation develops.

Eye Contact: Flush eyes thoroughly with water, while holding the eye lids open. Remove contact lenses if present and easy to do and continue rinsing. Get medical attention if irritation persists.

Ingestion: Wash mouth with water. Seek medical attention if you feel unwell.

Most Important Symptoms: None expected with normal use. May cause slight irritation to eyes, skin, or respiratory tract. May cause irritation and discomfort to the digestive tract.

Indication of Immediate Medical Attention/Special Treatment: Immediate medical attention is generally not required.

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5. Firefighting Measures

Suitable (and Unsuitable) Extinguishing Media: Use any extinguishing media that is appropriate for the surrounding fire.

Specific Hazards Arising from the Chemical: Product is not flammable, combustible, or explosive.

Special Fire Fighting Procedures: Use measures appropriate for the fire situation.

6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures: Wear appropriate protective clothing. Do not touch or walk through spilled material.

Methods and Materials for Containment and Clean-Up: Take up with an absorbent material and collect into an appropriate container for disposal.

Environmental Precautions: Report spills and releases as required to appropriate authorities.

7. Handling and Storage

Precautions for Safe Handling: Use with adequate ventilation. Avoid inhalation of dust or vapor. Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and released upon curing. Avoid unnecessary contact with the product. Use appropriate protective clothing and equipment. Wash thoroughly after handling. Remove contaminated clothing and launder before re-use. Do not eat, drink, or smoke in the work area. Keep containers closed when not in use.

Empty containers may contain product residue and may be hazardous. Follow all SDS precautions in handling empty containers.

Conditions for Safe Storage, Including any Incompatibilities: Store in cool, dry area. Keep containers closed. Store away from strong acids, bases, oxidizers, and moisture. Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

8. Exposure Controls / Personal Protection

Exposure Guidelines:

| CHEMICAL | EXPOSURE LIMIT |
|-------------------------------|--|
| Limestone (Calcium carbonate) | 15 mg/m3 TWA OSHA PEL (Total dust) 5 mg/m3 TWA OSHA PEL (Respirable fraction) |
| Calcium Carbonate | 15 mg/m3 TWA OSHA PEL (Total dust) 5 mg/m3 TWA OSHA PEL (Respirable fraction) |
| Titanium Dioxide* | 0.2 mg/m3 TWA ACGIH TLV (Respirable) nanoscale 2.5 mg/m3 TWA ACGIH TLV (Respirable) finescale 15 mg/m3 TWA (Total dust) OSHA PEL |

*Titanium Dioxide in this product is inextricably bound in a manner that no exposure occurs during normal use and handling.

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation.

Personal Protective Equipment

Respiratory Protection: None required for normal use. In operations where the occupational exposure limits are exceeded or exposure levels are excessive, an approved respirator with applicable cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form, and concentration.

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Gloves: None required for normal use. Impervious gloves recommended as needed to avoid prolonged contact.

Eye Protection: None required for normal use. Safety glasses with side shields are recommended.

Other Protective Equipment/Clothing: Protective clothing as needed to avoid skin contact and contamination of personal clothing.

9. Physical and Chemical Properties

Appearance and Color: White solid.

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|--|--|
| Physical State: Solid | Odor: None |
| pH: Not applicable | Specific Gravity: Not applicable |
| Initial Boiling Point/Range: Not applicable | Vapor Pressure: Not applicable |
| Melting/Freezing Point: Not applicable | Relative Vapor Density: Not applicable |
| Solubility In Water: Not determined | Percent Volatile: Not determined |
| Kinematic Viscosity: Not applicable | Evaporation Rate: Not determined |
| Relative Density: 1.44 | VOC Content: Not determined |
| Coefficient Of Water/Oil Distribution: Not determined | Autoignition Temp: Not applicable |
| Flash Point: Not applicable | Flammability (solid, gas): Not applicable |
| Flammability Limits: Not applicable | Decomposition Temperature: Not determined |
| Particle Characteristics: Not determined | |

10. Stability and Reactivity

Reactivity: Product cures with moisture.

Chemical Stability: Stable under normal storage and handling conditions.

Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions of storage and use.

Conditions to Avoid: Open flames. Unintentional exposure to moisture.

Incompatible Materials: Strong oxidizers, strong acids, and bases. Moisture.

Hazardous Decomposition Products: Small amounts of methanol (CAS 67-56-1) are formed by hydrolysis and are released upon curing.

11. Toxicological Information

Potential Health Effects:

Acute Hazards:

Inhalation: Inhalation of may cause slight irritation to mucous membranes and respiratory tract.

Skin Contact: May cause slight irritation.

Eye Contact: By analogy to another tested similar product: No irritation after contact to the eyes.

Ingestion: May cause irritation and discomfort to the digestive tract.

Chronic Effects: None known.

Carcinogenicity: Not classified. Titanium Dioxide is listed as Possibly Carcinogenic to Humans (Group 2B) by IARC. Titanium dioxide only presents a risk of cancer by inhalation of very fine dust. In this product, the Titanium dioxide is incorporated into the polymer matrix and are not present as respirable dust. There is no exposure to respirable dust in the normal use of this product. None of the other components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

Reproductive Toxicity: Not classified.

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Germ Cell Mutagenicity: Not classified.

Numerical Measures of Toxicity:

Product components are not acutely toxic.

12. Ecological Information

Ecotoxicity:

This product is not classified as harmful to the aquatic environment. However, this does not exclude the possibility that a large spill could have an adverse effect on the environment.

Persistence and Degradability: No data available.

Bio accumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal Considerations

Dispose of in accordance with all local, state, and federal regulations. Offer empty containers for recycling.

14. Transport Information

DOT Hazardous Materials Description: Not regulated.

IMDG Dangerous Goods Description: Not regulated.

IATA Dangerous Goods Description: Not regulated.

Transport in Bulk According to IMO Instruments: Not applicable.

15. Regulatory Information


United States:

EPA TSCA INVENTORY: All of the components of this material are listed on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory or exempt.

CERCLA Section 103: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA Hazard Category (311/312): Classified under OSHA Hazcom 2012 GHS as per Section 2 of this SDS.

SARA 313: This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None

California Proposition 65:  **WARNING:** This product can expose you to chemicals including Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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16. Other Information

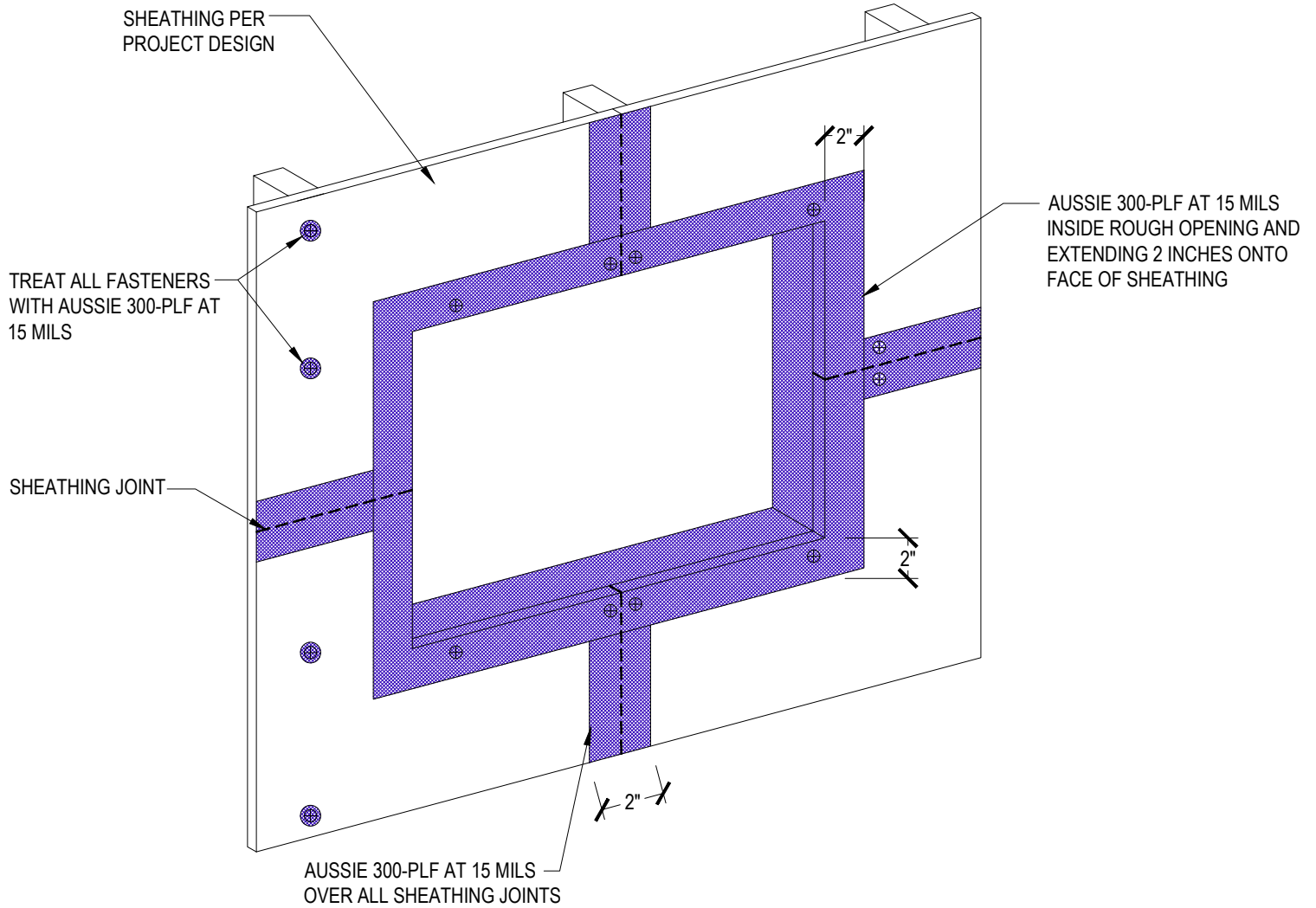
DATE OF CURRENT REVISION: June 24, 2024
REVISION SUMMARY: New SDS
DATE OF PREVIOUS REVISION: N/A

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DETAIL #:
0300-PLM-1100
Aussie Shield 300-PLM

Typical Window Flashing

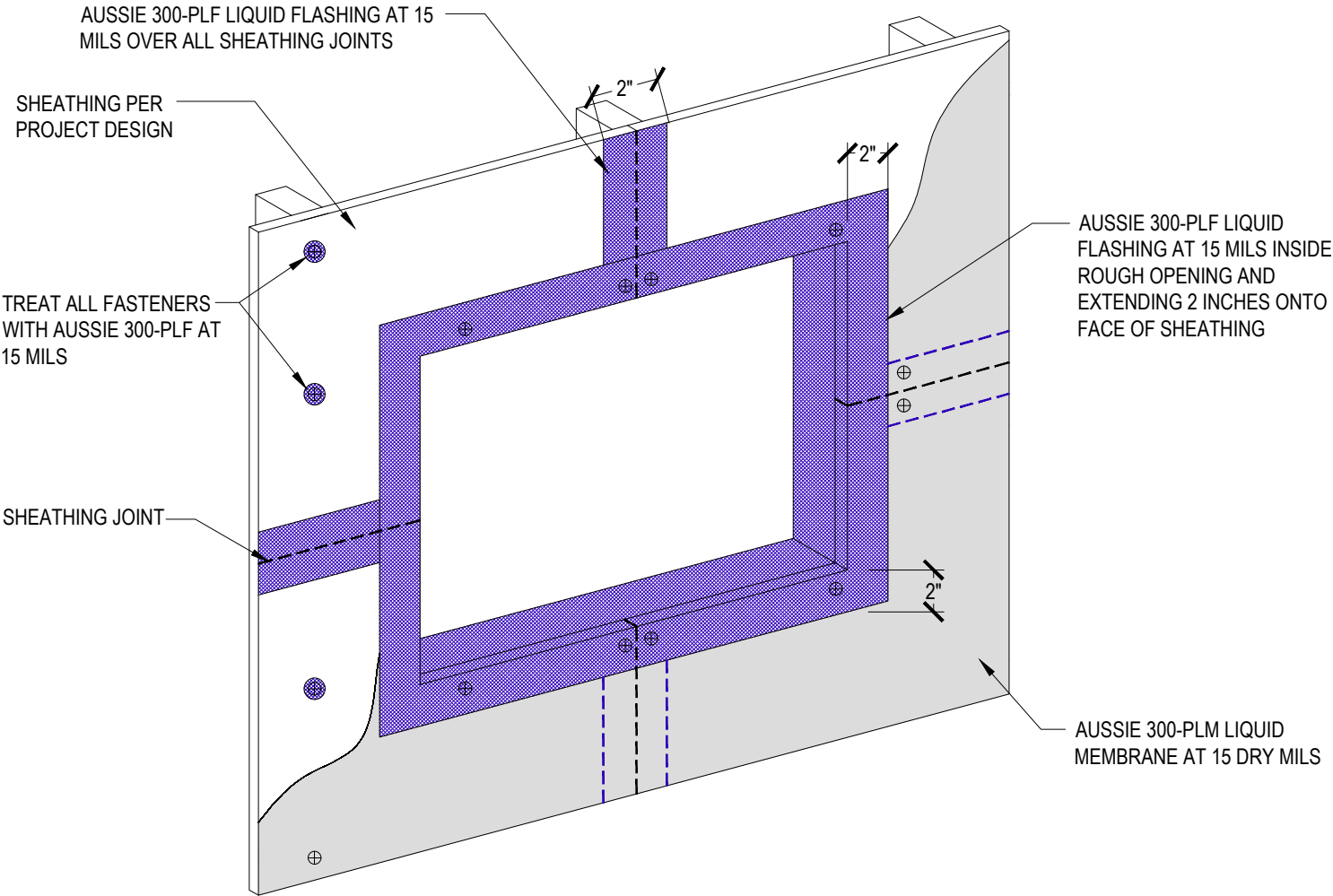
Aussie Shield 300-PLM



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| DETAIL #: |
| 0300-PLM-1102 |
| Aussie Shield 300-PLM |

Typical Window Flashing

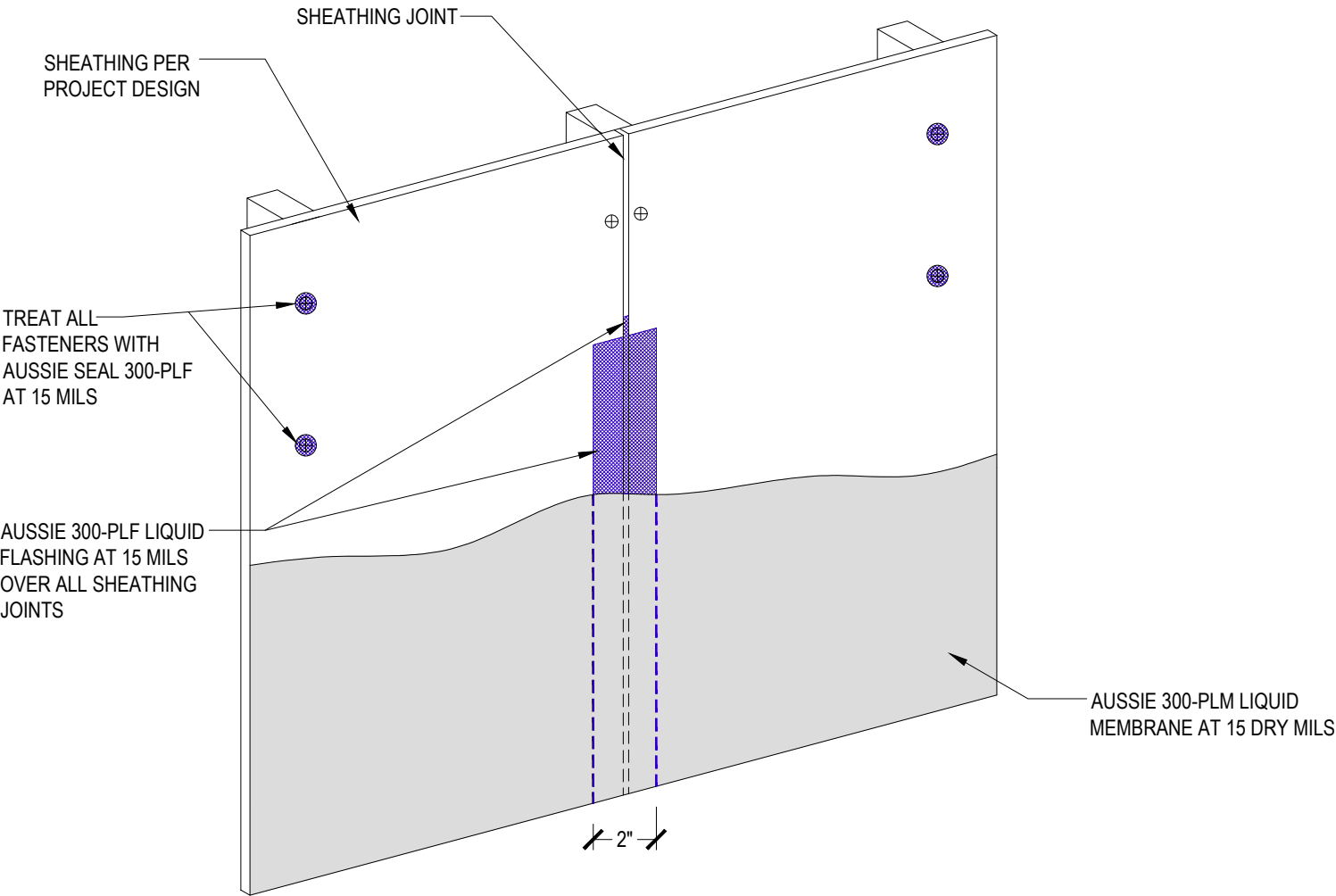
Aussie Shield 300-PLM



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| DETAIL #: |
| 0300-PLM-1110 |
| Aussie Shield 300-PLM |

Sheathing Joint Detailing

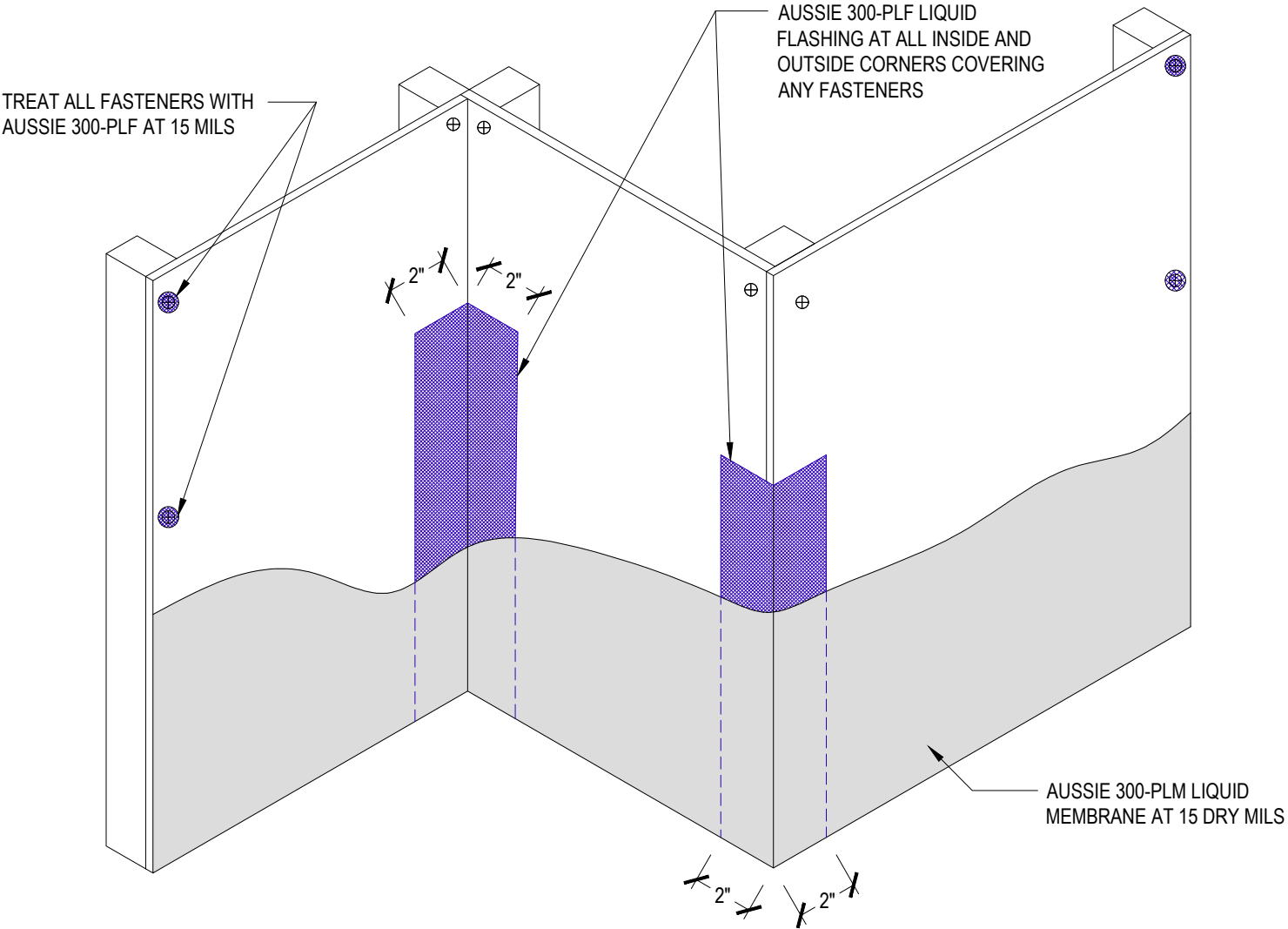
Aussie Shield 300-PLM



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| DETAIL #: |
| 0300-PLM-1115 |
| Aussie Shield 300-PLM |

Inside and Outside Corners

Aussie Shield 300-PLM



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|-----------------------|
| DETAIL #: |
| 0300-PLM-1120 |
| Aussie Shield 300-PLM |

Typical Penetration

Aussie Shield 300-PLM

