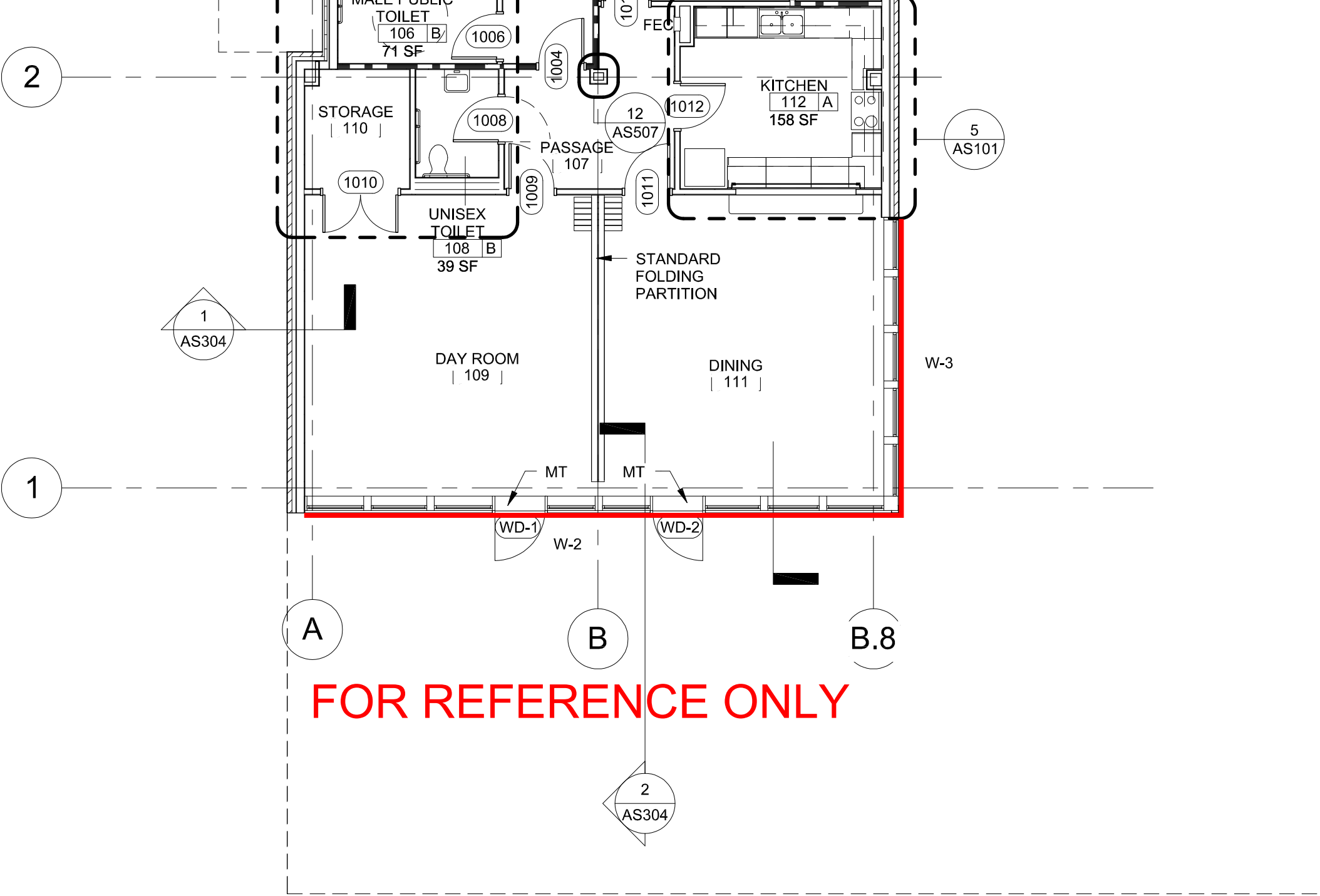
	QUESTION	AE Response	VA Response
1.	Will the General Contractor be responsible for maintaining the sprinkler system and vegetation around the building?	The General Contractor is responsible for protecting the sprinkler system and vegetation from damage or destruction throughout the course of construction. Any disturbed vegetation and/or damaged sprinklers must be repaired/ restored to preconstruction condition following final completion.	Contractors may remove vegetation and temporarily plant it along the western property line and re-planted after the construction is complete. Sprinkler system is no longer used and does not need to be replaced.
2.	There does not appear to be sufficient brick ledge at the windows on the North and Northwest side of the building. How should we handle this situation?	General Contractor is responsible for verifying existing condition is sufficient to provide required minimum bearing. All bids should include the cost of metal panels instead of brick installed below the windows as indicated in the attached existing floor plan excerpt.	
3.	There was discussion regarding the reuse of the flashing at the bottom of the building. Should this flashing be reused or replaced with new?	The intent is to reuse the existing thru-wall flashing as shown on the construction documents provided that it is in an acceptable condition and not damaged during the course of demolition. All existing stainless steel sill flashing is to be removed completely and replaced with continuous flexible rubber flashing membrane with 8" minimum vertical leg. Provide vapor barrier outboard of existing spray foam insulation and lap over new flashing membrane. See attachment.	
4.	There is only a 2-1/2" brick ledge at the elevator. Will this be sufficient for the project?	The exterior elevator walls are to be clad in metal panels as shown in the construction documents. No brick required.	
5.	Spec section: 075323 EPDM Roofing 2.4 EPDM Roofing Membrane States "Match existing thickness" could you please determine what the existing thickness is of the membrane.	Existing EPDM Thickness: 0.060" (1.52 mm). Match existing thickness unless noted otherwise by COR.	The Government concurs – match Firestone Rubberguard Eco-white 0.060" EPDM Membrane.
6.	Spec Section: 075323 EPDM Roofing 2.4 EPDM	Existing EPDM Color: Eco White. Match existing color	See Response to Question #5.

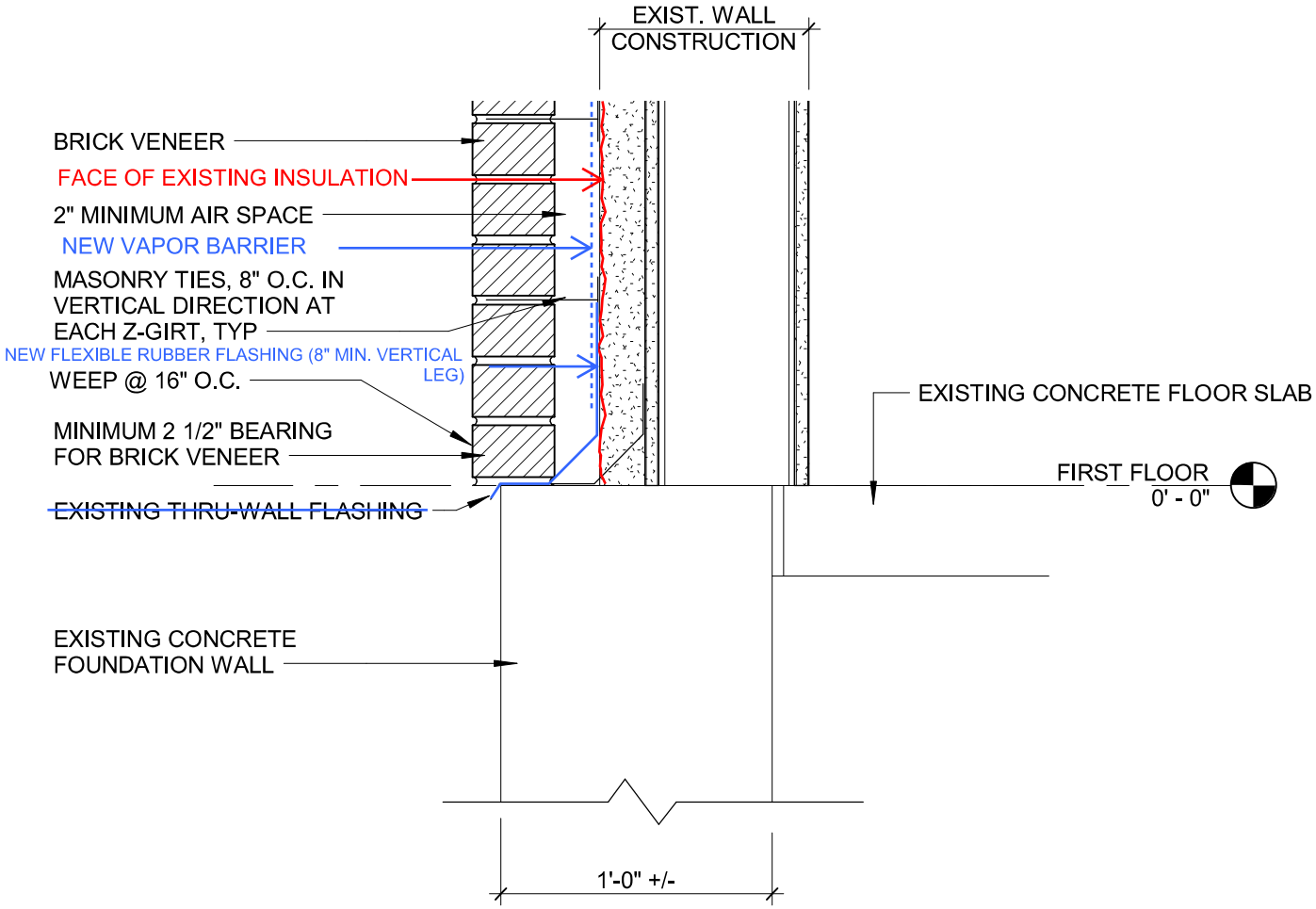
	Roofing Membrane States "Match Existing Color, white unless noted otherwise" could you please confirm that the membrane is to be white.	unless noted otherwise by COR.	
7.	Roof drawing A103 detail 1 (alternate #1) could you please confirm how the membrane is going to be terminated against the parapet of the existing structure?	Refer to attached detail for typical termination at existing parapet with new metal panel cladding.	
8.	Roof drawing A202 Detail 2 (Proposed South Elevation) the add alternate #2 is shown could you please confirm that this is the only area the aluminum metal panel guardrails are going to be.	Add Alternate #2 aluminum metal panel guardrail is also shown in drawing 2/A201 of the Proposed West Elevation. Refer to S102 for the Add Alternate #2 framing plan which shows the location of the guardrail between column lines E and G (east-west) and column lines 4.7 and 8 (north-south).	
9.	Could you please confirm how we are going to terminate at the metal panel guardrail once installed on the existing roof?	Use a metal panel manufacturer-approved break metal trim piece like the one shown in detail F/A301. Additionally, provide a prefabricated, reinforced 60 mil square pipe boot in conjunction with EPDM primer around each guardrail post penetrating the roof and apply continuous bead of lap sealant at all edges. See attachments for reference. The square boot should be installed similar to the round boot detail (FB-8B).	
	VA GENERATED ITEMS		
1.	The underside of the sloped overhang shall have metal panels to match the sides of the sloped gable ends.		



FOR REFERENCE ONLY

1 LEVEL 1 FLOOR PLAN - ALTERNATE 1

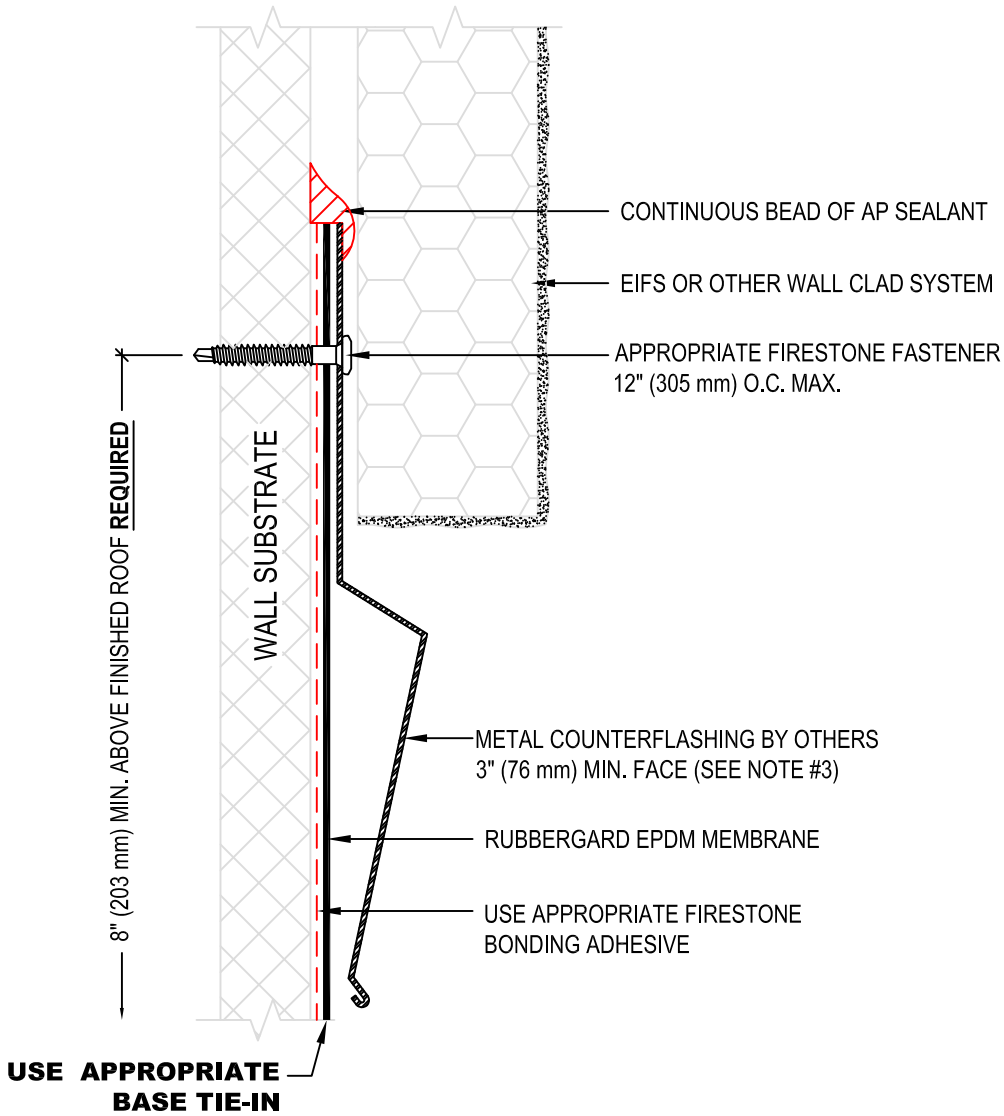
SCALE: 1/8" = 1'-0"



B

ENLARGED DETAIL - BOTTOM OF WALL

1 1/2" = 1'-0"



NOTES:

1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANT REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS

WALL SYSTEM MUST BE WATERPROOFED AND MAINTAINED IN ORDER FOR ANY SURFACE MOUNTED TERMINATION TO BE EFFECTIVE.

MAXIMUM WARRANTY: **20 YEARS**

Firestone BUILDING PRODUCTS
NOBODY COVERS YOU BETTER.™
www.firestonebpco.com

TERMINATION AT EIFS OR WALL CLADDING

RUBBERGARD™ EPDM

ACCEPTABLE SYSTEMS: ALL

ISSUE / REVISION DATE: 6/10/2014

NOT TO SCALE

DETAIL NO. T-7

JM PVC SQUARE PIPE BOOTS

Features and Components

Use: A prefabricated, reinforced 60 mil JM PVC (KEE) square boot in 2" and 4" (5.08 cm and 10.16 cm) sizes for tube-flashing application. Pipe boots minimize the need for field fabrication. Custom sizes and colors are available upon request. Contact your JM representative for minimum order quantity and lead time.

Material: JM PVC 60 mil reinforced membrane containing the optimal amount of DuPont™ Elvaloy®* KEE (Ketone Ethylene Ester) that is factory fabricated into a one-piece square split-pipe boot.

Color: White

Component
A
Accessory
Single Ply

Type
FP
Penetration

System Compatibility

This product may be used as a component in the following systems. Please reference product application for specific installation methods and information.

Multi-Ply	BUR		APP		SBS				
	HA	CA	CA	HW	HA	CA	HW	SA	MF
	Do not use in Multi-Ply systems								

Single Ply	TPO		PVC		EPDM		
	MF	FA	MF	FA	MF	FA	BA
	Compatible with the selected Single Ply systems above						

Key: **HA** = Hot Applied **CA** = Cold Applied **HW** = Heat Weldable **SA** = Self Adhered **MF** = Mechanically Fastened **FA** = Fully Adhered **BA** = Ballasted

Energy and the Environment

Standard		Reflectivity	Emissivity
CRRC®	Initial	0.86	0.86
	3 Yr. Aged	0.70	0.82
CA Title 24	Pass	0.86	0.86
ENERGY STAR®	Initial	0.86	0.82
	3 Yr. Aged	0.70	
LEED® (SRI)	Initial	108	
	3 Yr. Aged	84	
Recycled Content	Post-consumer	0%	
	Post-industrial	0% - 10%	

The LEED® Solar Reflectance Index (SRI) is calculated per ASTM E1980.

Peak Advantage® Guarantee Information

Systems
Approved for use in any JM Peak Advantage Guarantee System

Installation/Application

Hot Air Weld

- Do not install JM PVC Split Square Pipe Boots in direct contact with asphalt or coal tar pitch.
- Refer to JM PVC application guides or detail drawings for instructions.

Packaging and Dimensions

Size/Round Base	2" (5.08 cm) – 16" (40.64 cm) Base 4" (10.16 cm) – 16" (40.64 cm) Base
Height	8" (20.32 cm)
Boots per Box	8
Weight per Box	2" – 7 lb (3.18 kg) 4" – 8.7 lb (3.95 kg)

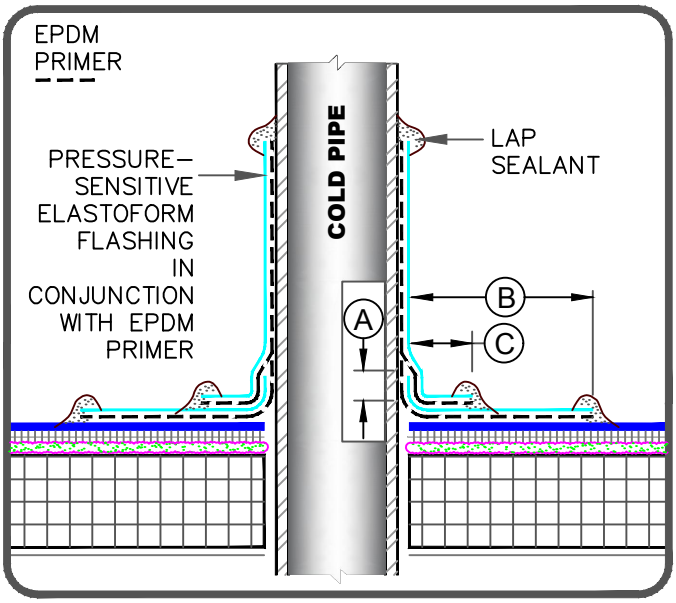
* Elvaloy is a registered trademark of E.I. du Pont de Nemours and Company or its affiliates.

Refer to the Safety Data Sheet and product label prior to using this product. The Safety Data Sheet is available by calling (800) 922-5922 or on the Web at www.jm.com/roofing.

CAUTION

DETAIL NOT FOR USE ON 25 & 30-YEAR WARRANTY PROJECTS. ACCEPTABLE PIPE FLASHINGS SHALL CONFORM WITH FB-8A DETAIL OR REFER TO THERMOSET/THERMOPLASTIC UNIVERSAL DETAILS.

EPDM

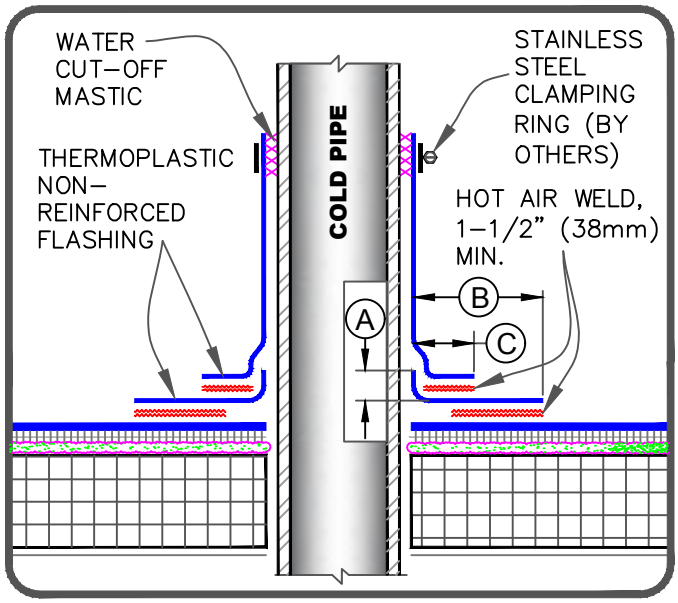


DIMENSIONS		mm	
A	1/2"	13	MIN.
B	3"	76	MIN.
C	1"	25	MIN.

NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD-FABRICATED PIPE SEAL.
2. TEMPERATURE OF PIPE MUST NOT EXCEED 180°F (82°C).
3. PRIOR TO APPLYING PRESSURE-SENSITIVE ELASTOFORM FLASHING, APPLY EPDM PRIMER TO SPLICE AREAS.
4. MECHANICAL SECUREMENT IS REQUIRED AROUND ALL PIPES GREATER THAN 18" (457mm) IN DIAMETER.
5. IN COLDER TEMPERATURES A HEAT GUN MUST BE USED WHEN FORMING PRESSURE-SENSITIVE ELASTOFORM FLASHING.
6. REFER TO EPDM UNIVERSAL DETAILS FOR HOT STACK, STEEL TUBING & FLEXIBLE PIPE PENETRATIONS.

TPO/PVC



DIMENSIONS		mm	
A	1/2"	13	MIN.
B	1-1/2"	38	TO
	2"	51	
C	1"	25	MIN.

NOTES:

1. REMOVE ALL LEAD AND OTHER FLASHING BEFORE INSTALLING FIELD FABRICATED PIPE SEAL.
2. TEMPERATURE OF THE PIPE PENETRATION MUST NOT EXCEED 140°F (60°C) WHEN USING PVC AND 160°F (71°C) WHEN USING TPO FLASHING.
3. APPLY HEAT TO FLASHING AND FORM BY HAND PRIOR TO HOT AIR WELDING
4. MECHANICAL SECUREMENT IS REQUIRED AROUND ALL PIPES GREATER THAN 18" (457mm) IN DIAMETER.
5. REFER TO THERMOPLASTIC UNIVERSAL DETAILS FOR HOT STACK, STEEL TUBING & FLEXIBLE PENETRATIONS.

FleeceBACK MEMBRANE FAST ADHESIVE/AQUABASE APPROVED SUBSTRATE 0 SEE NOTE(S)	FIELD FABRICATED PIPE FLASHING For additional information, refer to Specifications	FB	DETAIL NO. FB-8B FLEECEBACK ADHERED