

Date: April 6, 2022

Project Number: 74-2724-21

Project Name: Henry County Highway Department - Building Alterations

Intent:

This Addendum provides modifications and clarifications To the Bid Documents dated **March 22, 2022** Bidder shall ascertain prior to submitting its Bid Form that it has received all Addenda issued and shall acknowledge receipt of each Addendum on the Bid Form.

In the event of a conflict between the terms and provisions of this Addendum and the terms and provisions of the Bidding Documents, the terms and provisions of this Addendum shall control. In all other respects, the Bidding Documents shall remain unchanged and in full force and effect.

	Additional	Cons. Doc.	
Item	Document	Reference	Description
General:			
1			See included Pre-Bid Meeting Minutes and Sign-in Sheets
2			<b>CHANGE:</b> Completion date shall be revised from October 31, 2022 to November 30, 2022.
3			<b>CLARIFICATION</b> : If any asbestos removal, environmental study or other hazardous materials discovered, these items will be removed by Owner.
Specifica	ations:		
4		075419 PVC Roof Membrane	ADD: Substitution request for Firestone PVC Membrane as an approved manufacturer. See attached Firestone Technical Data.
Architec	tural:		
5		Sheet A201	<b>CLARIFICATION:</b> All doors noted on Door Schedule are specified to be field painted as noted on door type A.
6	A121, A201 and A301 Revised		CHANGE: New parrapet wall framing to be removed from perimeter roof walls except walls as noted. See revised sheets.
7		Sheet A201	<b>CLARIFICATION:</b> New door knobs on hardware set #1 shall be provided and installed by Owner's IT.
8		Sheet A301 Detail 5/A301	<b>CLARIFICATION:</b> Interior insulated wall panels to remain, only exterior "v" beam siding to be removed.
9		Sheet D101	<b>CLARIFICATION:</b> Existing concrete pit can be abandoned below new pit depth. Contractor to backfill with stone as required for new pit foundations.
10		Sheet A201	<b>CLARIFICATION:</b> Owner's electrician is removing any electrical fixtures or devices for this project. No Electrical work under this project.
11			<b>ADD:</b> Alternate price for contractor to stock pile old concrete material from concrete floor on site and Owner to remove off site.

Item	Additional Document	Cons. Doc. Reference	Description
12			<b>ADD:</b> General Contractors are to provide an alternate price to remove exterior wall panels and trims and disposal.
13			<b>ADD:</b> Contractor to provide \$5,000 allowance for batt insulation if required during removal of exterior wall panels.
End of A	ddendum 01		



# **TECHNICAL INFORMATION SHEET**

## Firestone PVC Membrane

#### **Item Description**

Roll - 50 mil: 5' (1.5 m) x 100' (30.5 m) White, Tan and Gray Roll - 50 mil: 10' (3 m) x 100' (30.5 m) White, Tan and Gray Roll - 60 mil: 5' (1.5 m) x 100' (30.5 m) White, Tan and Gray Roll - 60 mil: 10' (3 m) x 100' (30.5 m) White, Tan and Gray Roll - 80 mil: 5' (1.5 m) x 65' (19.8 m) White, Tan and Gray Roll - 80 mil: 10' (3 m) x 65' (19.8 m) White, Tan and Gray

## Meets or exceeds ASTM D 4434, Type III

### **Product Information**

## Description:

Firestone PVC is a flexible Thermoplastic Polyvinyl Chloride roofing membrane that is produced with polyester weft-inserted reinforcement. Firestone PVC membrane meets or exceeds all requirements for ASTM D 4434, Type III Specification. This heat weldable PVC membrane is available in 50 mil (1.27 mm), 60 mil (1.52 mm) and 80 mil (2.03 mm) thicknesses and is suitable for a variety of low-slope applications.

### Method of Application:

- 1. Substrates must be clean, dry, smooth, and free of sharp edges, fins, loose or foreign materials, oil, grease, and other materials that may damage the membrane.
- 2. All rough surfaces that can damage the membrane shall be repaired as specified to offer a smooth substrate.
- 3. All surface voids greater than 1/4" (6.3 mm) wide shall be properly filled with an acceptable fill material.
- 4. Firestone PVC membrane is installed as continuous roofing or waterproofing layer on the roof. Rolls are overlapped (side laps and end laps) prior to heat welding the seam areas.
- 5. Firestone PVC membrane may be mechanically attached or adhered using Firestone PVC LVOC Bonding Adhesive or Firestone PVC Water Based Bonding Adhesive.
- 6. Install the Firestone PVC Roofing System in accordance with current Firestone PVC specifications, details and workmanship requirements.

### Storage:

- Store material away from direct sun light, sources of physical damage or chemical contamination.
- Assure that structural decking will support the loads incurred by material when stored on rooftop. The deck load limitations should be specified by the project designer.
- Store away from ignition sources as membrane will burn when exposed to open flame.

#### Precautions:

- Exercise caution when lifting, moving, transporting, storing or handling membrane rolls to avoid sources of punctures and possible physical damage.
- Contact your Firestone Technical Advisor at 1-800-428-4511 for specific recommendations regarding chemical or waste product compatibility with Firestone PVC membrane.

#### **LEED®** Information:

Post-Consumer Recycled Content: 0% Pre-Consumer Recycled Content: 5%

Manufacturing Location: Hillside, NJ

NOTE: LEED® is a registered trademark of the U.S. Green Building Council.









# **Firestone PVC Membrane**

Property	ASTM Standard	ASTM Performance Minimum	Typical Performance 50 mil	Typical Performance 60 mil	Typical Performance 80 mil
Overall Thickness	D 751	0.045" (1.14 mm)	0.050" (1.27 mm) ± 10%	0.060" (1.52 mm) ± 10%	0.080" (2.03 mm ± 10%
Thickness over Scrim	D 7635	0.016" (0.40 mm)	0.025" (0.635 mm)	0.030" (0.762 mm)	0.040" (1.016 mm)
Breaking Strength	D 751 Grab Method	200 lbf (889 N)	> 240 lbf (1,067 N)	> 340 lbf (1,512 N)	> 365 lbf (1,623 N)
Elongation of Reinforcement Break	D 751 Grab Method	15%	> 25%	> 25%	> 25%
Tearing Strength	D 751 B-Tongue	45 lbf (200 N)	> 45 lbf (200 N)	> 55 lbf (244 N)	> 70 lbf (311 N)
Low Temperature Bend	D 2136	-40 °F (-40 °C)	Pass	Pass	Pass
Linear dimensional change	D 1204 6 h at 80 ± 1°C (176 ± 2°F) - Linear dimensional change, max, %	± 0.5% maximum	< 0.5%	< 0.5%	< 0.5%
Water Absorption	D 570 168 ± 1 h at 70 ± 1 °C (158 ± 2 °F)	± 3% maximum	< 3%	< 3%	< 3%
Accelerated Weathering	G 155	5000 h minimum	> 5000 h	> 5000 h	> 5000 h
Dynamic Puncture Resistance	D 5635 Type III	Energy level of 20J minimum	Pass	Pass	Pass
Static Puncture Resistance	D 5602 at 23 ± 1 °C (73 ± 2 °F)	33 lbf (15 kg) minimum	Pass	Pass	Pass
Retention of Properties Heat Aging—Practice D3045	After Heat Aging at 80 ± 1 °C (176 ± 2 °F) f	or 56 days ± 1 h			
Breaking Strength	D 751, Grab Method		> 90%	> 90%	> 90%
Elongation at Break	D 751, Grab Method	90% minimum	> 90%	> 90%	> 90%

For use of the product as a component in an air barrier assembly, please consult the Designer / Architect, Code Agency or Authority having Jurisdiction (AHJ) for the acceptable air barrier assembly details and its installation into the building envelope. Additional roof system securement enhancements may be required.

Vhite Firestone PVC reinforced membrane product sizes:							
Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight		
50 mil	W56 PMW 50510	5' (1.5 m)	100' (30.5 m)	0.34 lb/ ft² (1.66 kg/m²)	≤ 172 lb (78 kg)		
50 mil	W56 PMW 51010	10' (3 m)	100' (30.5 m)		≤ 347 lb (157 kg)		
60 mil	W56 PMW 60510	5' (1.5 m)	100' (30.5 m)	2 44 11 / 52 / 2 2 1 / 2)	≤ 210 lb (95 kg)		
60 mil	W56 PMW 61010	10' (3 m)	100' (30.5 m)	0.41 lb/ ft² (2.0 kg/m²)	≤ 420 lb (190 kg)		
80 mil	W56 PMW 80565	5' (1.5 m)	65' (19.8 m)	0.54 lb / 62 /0.6 log/co2)	≤ 177 lb (80 kg)		
80 mil	W56 PMW 81065	10' (3 m)	65' (19.8 m)	0.54 lb/ ft² (2.6 kg/m²)	≤ 355 lb (161 kg)		

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# **Firestone PVC Membrane**

an Firestone PVC reinforced membrane product sizes:							
Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight		
50 mil	W56PMT50510	5' (1.5 m)	100' (30.5 m)	0.34 lb/ ft² (1.66 kg/m²)	≤ 172 lb (78 kg)		
50 mil	W56PMT51010	10' (3 m)	100' (30.5 m)		≤ 347 lb (157 kg)		
60 mil	W56PMT60510	5' (1.5 m)	100' (30.5 m)	0.44 # / 50 / 0.04 / 3	≤ 210 lb (95 kg)		
60 mil	W56PMT61010	10' (3 m)	100' (30.5 m)	0.41 lb/ ft² (2.0 kg/m²)	≤ 420 lb (190 kg)		
80 mil	W56PMT80565	5' (1.5 m)	65' (19.8 m)	0 E4 lb / #2 /2 C lc=/==2\	≤ 177 lb (80 kg)		
80 mil	W56PMT81065	10' (3 m)	65' (19.8 m)	0.54 lb/ ft² (2.6 kg/m²)	≤ 355 lb (161 kg)		

Gray Firestone PVC reinforced membrane product sizes:							
Nominal Thickness	Part #	Width	Length	Weight	Shipping Weight		
50 mil	W56PMG50510	5' (1.5 m)	100' (30.5 m)	0.0411.482.44.001.4.33	≤ 172 lb (78 kg)		
50 mil	W56PMG51010	10' (3 m)	100' (30.5 m)	0.34 lb/ ft² (1.66 kg/m²)	≤ 347 lb (157 kg)		
60 mil	W56PMG60510	5' (1.5 m)	100' (30.5 m)	0.44.0.450.45.00.4.00	≤ 210 lb (95 kg)		
60 mil	W56PMG61010	10' (3 m)	100' (30.5 m)	0.41 lb/ ft² (2.0 kg/m²)	≤ 420 lb (190 kg)		
80 mil	W56PMG80565	5' (1.5 m)	65' (19.8 m)	0.54 lb / 62 /0.0 lb = /==2)	≤ 177 lb (80 kg)		
80 mil	W56PMG81065	10' (3 m)	65' (19.8 m)	0.54 lb/ ft <sup>2</sup> (2.6 kg/m <sup>2</sup> )	≤ 355 lb (161 kg)		

Radiative Properties						
Cool Roof Rating Council (CRRC): Initial / 3 yr	White	Tan	Gray			
Solar Reflectance	0.86 / 0.73	0.69 / 0.53	0.68 / 0.54			
Thermal Emittance	0.87 / 0.88	0.85 / 0.88	0.87 / 0.89			
Solar Reflectance Index (SRI)	108 / 90	83 / 62	82 / 64			
Rated Product ID	0608 - 0059	0608-0063	0608-0061			
Licensed Manufacturer ID	0608	0608	0608			
Classification	Production Line	Production Line	Production Line			
ENERGY STAR®: Initial / 3 yr	White	Tan	Gray			
Solar Reflectance	0.86 / 0.73	0.69 / 0.53	0.68 / 0.54			





Please contact Firestone Technical Services at 1-800-428-4511 for further information.

This sheet is meant to highlight Firestone products and specifications and is subject to change without notice. Firestone takes responsibility for furnishing quality materials which meet published Firestone product specifications. Neither Firestone nor its representatives practice architecture. Firestone offers no opinion on and expressly disclaims any responsibility for the soundness of any structure. Firestone accepts no liability for structural failure or resultant damages. Consult a competent structural engineer prior to installation if the structural soundness or structural ability to properly support a planned installation is in question. No Firestone representative is authorized to vary this disclaimer.

Firestone Building Products | Sales: (800) 428-4442 | Technical (800) 428-4511 | www.firestonebpco.com

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