

March 26, 2018

To: All Prospective Bidders

Re: GD 18-04  
Roofing of Select Sections at 901 South Ludlow  
Addendum No.3

Please be aware of the following information regarding the above mentioned procurement.

A Request for approved equal was presented for SIKA Sarnafil Roofing:

**Answer:** The request for approved equal has been approved. Specifications are attached.

This Addendum No. 3 shall become a part of the contract document and scope of work and shall be taken into consideration when preparing your bid; you are hereby notified accordingly.

Sincerely,

Joe Swisshelm

Joe Swisshelm, C.P.M.  
Senior Purchasing Agent

cc: Bob Ruzinsky

*Greater Dayton Regional Transit Authority*

PRODUCT DATA SHEET  
SIKAPLAN<sup>®</sup> FASTENED  
ENERGYSMART  
ROOF<sup>®</sup> MEMBRANE  
45 60 FELTBACK



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Sikaplan Fastened EnergySmart Roof Membrane is a highly reflective, thermoplastic PVC membrane, with polyester scrim reinforcement offered in 45 mil and 60 mil thicknesses. It is also available in 60 mil feltback which is manufactured with a recycled felt backing.

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## PRODUCT INFORMATION

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### USES

Sikaplan Fastened EnergySmart Roof Membrane is mechanically fastened using various attachment components over approved substrates.

### AREAS OF APPLICATION

- In-seam disc systems
- In-seam batten, double-weld systems
- RhinoBond® systems
- New construction and reroofing

### FEATURES / BENEFITS

- Excellent tear strength resistance
  - Heat welded seams for strength and security
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### TESTS

### STANDARDS / APPROVALS

- FM Global
  - Underwriters Laboratories
  - Underwriters Laboratories of Canada
  - Miami-Dade County
  - Florida Building Code
  - California Title 24
  - USGBC LEED
  - Green Globes
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11-09-16 Version #8

*Greater Dayton Regional Transit Authority*

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**COMPOSITION**

Thermoplastic PVC membrane containing ultraviolet light stabilizers, flame retardant and polyester scrim reinforcement with a unique lacquer coating on the top surface.

**COLOR**

Top: White, Reflective Gray, and Tan

Bottom: Dark Gray

**PACKAGING**

- **45 mil (1.2 mm) Membrane (White Only)**  
 Bareback: 10 ft x 150 ft (3 m x 45 m) roll, 418 lbs (189 kg) per roll, 8 rolls per pallet  
                   5 ft x 150 ft (1.5 m x 45 m) roll, 209 lbs (95 kg) per roll, 12 rolls per pallet
- **60 mil (1.5 mm) Membrane**  
 Bareback: 10 ft x 100 ft (3 m x 30 m) roll, 348 lbs (158 kg) per roll, 8 rolls per pallet  
                   5 ft x 100 ft (1.5 m x 30 m) roll, 174 lbs (79 kg) per roll, 12 rolls per pallet  
 Feltback: 10 ft x 100 ft (3 m x 30 m) feltback roll, 401 lbs (182 kg) per roll, 9 rolls per pallet

**STORAGE**

**STORAGE CONDITIONS**

Store rolls on pallets and fully protected from the weather with clean canvas tarpaulins. Unvented polyethylene tarpaulins are not accepted due to the accumulation of moisture beneath the tarpaulin in certain weather conditions that may affect the ease of membrane weldability.

**TECHNICAL DATA**

**TYPICAL PHYSICAL PROPERTIES\***

Properties	ASTM Test Method	ASTM Type III D-4434 Spec. Requirement	Typical Results	
			Polyester	Polyester
Reinforcing Material	--	--	Polyester	Polyester
Nominal Thickness, mil	D751	45	45	60
Thickness Over Scrim, mil	--	16	20	24

Felt Weight, oz/yd <sup>2</sup> (feltback membrane only)	--	--	9	9
Breaking Strength M.D. <sup>1</sup> , lbf (N)	D751	200 (890)	230 (1023)	303 (1348)
Elongation at Break, % M. D. <sup>1</sup> & % C.M.D. <sup>1</sup>	D751	15 & 15	20 & 20	20 & 20
Seam Strength, % of original <sup>2</sup>	D751	75	Pass	Pass
Retention of Properties After Heat Aging	D3045	--	--	--
Tensile Strength, % of original	D751	90	Pass	Pass
Elongation, % of original	D751	90	Pass	Pass
Tearing Resistance, lbf (N)	D751	45 (200)	45 (200)	45 (200)
Low Temperature Bend, -40°F (-40°C)	D2136	Pass	Pass	Pass
Accelerated Weathering Test (Florescent Light UV exposure)	G154	5,000 Hours	10,000 Hours	10,000 Hours
Cracking (7x magnification)	--	None	None	None
Discoloration (by observation)	--	Negligible	Negligible	Negligible
Crazing (7x magnification)	--	None	None	None
Linear Dimensional Change, %	D1204	0.5% max.	0.31	0.24
Weight Change After Immersion in Water, %	D570	± 3.0% max.	2.9	2.5
Static Puncture Resistance, lbf (kg)	D5602	33 (15)	Pass	Pass
Dynamic Puncture Resistance, ft-lbf (J)	D5635	14.7 (20)	Pass	Pass
Recycled Content	--	--	9% Pre-consumer, 1% Post-consumer	

\*Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions, and curing conditions.

<sup>1</sup>

M.D. = Machine Direction, C.M.D. = Cross Machine Direction

<sup>2</sup>

Failure occurs through membrane rupture not seam failure.

	INITIAL SOLAR REFLECTANCE <sup>1</sup>	3-YEAR SOLAR REFLECTANCE <sup>1</sup>	INITIAL THERMAL EMITTANCE <sup>2</sup>	3-YEAR THERMAL EMITTANCE <sup>2</sup>	INITIAL SOLAR REFLECTANCE INDEX	3-YEAR SOLAR REFLECTANCE INDEX
Sikaplan Fastened EnergySmart White - 45 mil	0.83	0.64 <sup>3</sup>	0.89	Pending	104	Pending
Sikaplan Fastened EnergySmart White - 60 mil	0.85	0.66 <sup>3</sup>	0.89	Pending	107	Pending

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Sikaplan Adhered EnergySmart Reflective Gray - 60 mil	0.73	0.65 <sup>4</sup>	0.89	0.88 <sup>4</sup>	90	78 <sup>4</sup>
Sikaplan Fastened EnergySmart Tan - 60 mil	0.72	0.65 <sup>4</sup>	0.89	0.88 <sup>4</sup>	88	78 <sup>4</sup>

<sup>1</sup>

Solar Reflectance testing according to ASTM C1549

<sup>2</sup>

Thermal Emittance testing according to ASTM C1371, Slide Method

<sup>3</sup>

Derived using the California Title 24 calculation method for aged solar reflectance per Section 110.8(i)2. of the 2013 Building Energy Efficiency Standard, page 102.

<sup>4</sup>

CRRR Rapid Ratings: These are interim laboratory-aged values that simulate weathered values. These values will be replaced with the measured three-year aged values upon completion of the weathering process. SRI values calculated using Rapid Ratings may change once the aged rating replaces the interim rating.

## SYSTEM INFORMATION

### APPLICATION

Sikaplan Fastened EnergySmart Roof Membrane is installed on acceptable substrates and fastened to the roof deck using the approved attachment method. The membrane is heat-welded together by trained mechanics using hot-air welding equipment. Sikaplan Fastened EnergySmart Roof Membrane can be used for flashings on Sikaplan Fastened roof projects.

### AVAILABILITY

From Sika Authorized Applicators when used within Sikaplan roofing systems.

### MAINTENANCE

Standard maintenance of roofs should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

### WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

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## LEGAL NOTES

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at [usa.sarnafil.sika.com](http://usa.sarnafil.sika.com) or by calling 800-451-2504.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at [usa.sarnafil.sika.com](http://usa.sarnafil.sika.com) or by calling Sika's Technical Service Department at 800-451-2504. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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