



Between the World  
and The Weather  
Since 1928

## Ram 306 Modified Bitumen Membrane

### PRODUCT DESCRIPTION

Barrett Ram 306 is a multi-purpose SBS polymer-modified, polyester reinforced modified bitumen membrane with a ceramic granule surface. The polymer modification enhances this products elongation, elastic and flexibility properties. The high strength polyester reinforcement gives the composite membrane excellent tensile strength, toughness, puncture and tear resistance necessary to accommodate typical rooftop exposures. Ram 306 comes with black or white granule surfacing. Both offer resistance to ultra-violet rays and damage caused by foot traffic. The light colored granules provide improved reflectivity.

This heavy-duty membrane is utilized as a built-up roof and base flashing cap sheet. It is also used as a waterproofing membrane protection course. Ram 306 can be installed in hot asphalt bitumen or approved cold applied adhesives and mastics.

Ram 306 Modified Bitumen Membrane is also available as a UL fire rated system component, (Ram 306FR).

### FEATURES

- Enhanced physical properties through polymer modification
- Consistent premium quality
- Superior elongation and cold-temp flexibility properties
- Excellent strength properties
- UV resistance
- Reflective surfacing
- Fire rated product available

### BENEFITS

- UL and FM quality assurance programs
- Flexibility makes installation easier
- Polymer modification reduces potential for thermal stress
- Superior traffic, abrasion and puncture resistance
- Adapts to extreme temperature ranges
- Compatible with all Barrett hot and cold applied adhesives

### TYPICAL PHYSICAL PROPERTIES

TEST	INITIAL RESULTS		RESULTS AFTER CONDITIONING*	
	MD**	XD**	MD**	XD**
Load Strain @ 77°F				
Maximum Load (lbs/in.)	93	63	98	70
Elongation @ Max. Load (%)	56	61	48	54
Strain Energy @ Max. Load (inch-lbs/in <sup>2</sup> )	40	29	36	28
Load Strain @ 0°F				
Maximum Load (Lbs/in.)	127	98	117	83
Elongation @ Max. Load (%)	34	29	29	22
Strain Energy @ Max. Load (inch-lbs/in <sup>2</sup> )	36	28	29	17
Low Temperature Flexibility				
Initial -low temperature cracking does not occur	-15°F	-15°F	-	-
After heat conditioning at (158°F for 90 days)	-	-	-5°F	-5°F
Thickness (mm) (average value)	4.0			
Tensile Tear Strength @ 77°F(lbf)	120	87	-	-
Moisture Content (%)	0.6	-	-	-
Water Absorption (%)	0.6	-	-	-
Dimensional Stability (Absolute Dimensional Change) (%)	< -0.5	< -0.5	-	-
Compound Stability				
Temperature at which flow formation observed	250°F	-	-	-

Meets or exceeds the requirements of ASTM D-6164 Type I Grade G

Test Results per ASTM D-5147

\* 158°F for 90 days

\*\* MX = machine direction XD = cross direction

## APPLICATION GUIDELINES

When installing Ram 306, press the sheet into the hot bitumen or mastic, making sure that it is totally adhered to its substrate. Wrinkles, buckles, fishmouths, etc. are to be cut out and repaired. Ram 306 is provided with a 3 inch, non-granulated, salvage edge to assure positive adhesion at sidelaps. End laps shall be minimum 6 inches.

Care should be taken to avoid getting adhesive on the surface of the sheet. Exposed adhesive can be covered with granules of the same color. Granules, available in loose form, can be embedded in mastic or hot bitumen.

## STORAGE

All material should be stored on end with its original label and out of the weather. If this material is to be stored on the roof, it is to be stored on end, elevated off the roofs surface and covered with an opaque, breathable and waterproof cover.

## PACKAGING

Roll width	39.3 inches
Roll length	33 ft.
Roll size	108 sq.ft.
Net coverage	100 sq. ft.
Roll weight (per 100 sq.ft.)	98 lbs.
Pallet size	48" x 48"
Rolls per pallet	25
Weight per pallet	2300 lbs. (approx.)
Pallets per truckload	20

## APPLICATION PRECAUTIONS

- For exterior use only
- Do not apply to wet or damp surfaces
- Follow recommended application temperature
- Do not torch apply
- Should be installed on decks with positive drainage
- Avoid contact with petroleum products, oils, grease, animal fats and other foreign materials which could affect this products performance.
- Do not smoke or expose to open flames during application
- Not for use with potable water collection systems.
- **READ MATERIAL SAFETY DATA SHEET BEFORE USING**
- **FOR PROFESSIONAL ROOFING CONTRACTOR USE ONLY.**

## PRODUCT SAFETY INFORMATION

RAM 306 Modified Bitumen Membrane offers no unusual health or safety risks for a product of this nature. As with any roofing process, proper ventilation, clothing and eye protection is important.

For specific information, contact the Barrett Company for a current Material Safety Data Sheet on this product.

The user should not assume that all safety measures are indicated or that other measures may not be required.

### Note

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