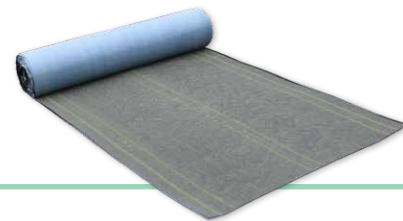


**TECHNICAL DETAILS**

<b>WEIGHT/ROLL</b> 30 lbs. 13.6 kg	<b>WEIGHT/SQUARE</b> 30 lbs. 13.6 kg
<b>WIDTH</b> 36" 0.91 m	<b>LENGTH</b> 33' 4" 10.2 m
<b>THICKNESS</b> 55 mils nominal	<b>TOTAL AREA PER ROLL</b> 100 ft <sup>2</sup> 9.3 m <sup>2</sup>
<b>ROLLS/PALLET</b> 39 from OR	<b>ROLLS/PALLET</b> 42 from OK
<b>PERM RATING</b> ≤ 0.1 U.S. perms	<b>LAY LINES</b> 2", 4", 17" 51 mm, 102 mm, 432 mm

**NEX™ POLYMER MODIFIED  
SELF-ADHERING  
UNDERLAYMENT FOR ICE AND  
WATER PROTECTION**



**TEST COMPLIANCE**

<b>ASTM</b> D1970
----------------------

**FEATURES & BENEFITS**

- Sustainable NEX™ asphalt technology
- Self-adhering; waterproof
- Protects against leaks from ice dams and wind-driven rain
- Equally effective flashing membrane

**PRODUCT USE**

400 Arctic Seal® is a specially designed and manufactured, self-adhering, NEX™ SBS polymer modified asphalt underlayment for use on steep slopes to prevent moisture intrusion from ice dams and wind-driven rain, as required by many building codes. Arctic Seal® is approved for use under fire-rated, code-compliant roof coverings and serves a dual role as a flashing membrane, helping protect areas susceptible to leaks such as valleys, roof-to-wall transitions, and around vents and skylights. It's weight, length, and resulting, easy application make it ideal for residential use. Consult Malarkey's Technical Services Department for approval of roof systems.

**COMPOSITION & MATERIALS**

Arctic Seal® is manufactured on a non-woven fiberglass mat with a NEX™ SBS polymer modified bitumen (asphalt) top coating and surfaced with a sand release agent. The underside has an aggressive, asphalt-based adhesive, protected with a factory-applied, split-release film that is removed prior to installation.

**APPLICATION/INSTALLATION**

Arctic Seal® shall be applied as specified. It is not intended as a permanently-exposed roofing surface but can be left uncovered for up to 60 days if necessary before the primary roof covering is installed. Roof decks should be sound, dry, smooth, meet necessary local requirements, and provide positive drainage. When using Arctic Seal® for full deck protection, make sure adequate ventilation and moisture control issues are addressed. Do not use Arctic Seal® as an underlayment under metal roofs, but it is recommended under and around sheet metal flashing details on shingle roofs, including valley metal. Arctic Seal® has passed ASTM D5147 *compound stability* testing up to 225°F (107°C) without failure. Installation instructions can be found at [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM) or by contacting our Technical Services Department.

**STORAGE & HANDLING**

For best results, Malarkey recommends Arctic Seal® be protected from the weather and stored on end in a cool, dry, well-ventilated area until applied.

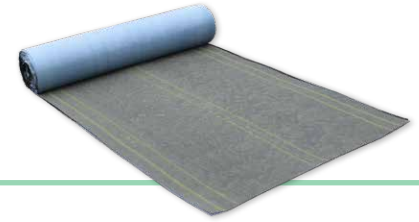
**WARRANTY**

Arctic Seal® is eligible for expanded warranty coverages relative to its use as a single roofing accessory or in combination with others in a complete Malarkey roofing system. Installed separately, it carries a 10-year product warranty against manufacturing defects. Contact your roofing contractor, local distribution center, or Malarkey for full details. See below for TECHNICAL ASSISTANCE contact information.

Arctic Seal® and other Malarkey products are available throughout North America and Pacific Rim countries. Visit [WWW.MALARKEYROOFING.COM](http://WWW.MALARKEYROOFING.COM) for additional product information and availability.

Note: Malarkey Roofing Products® inventory SKU number for this product: 400 Arctic Seal®

**NEX™ POLYMER MODIFIED  
SELF-ADHERING  
UNDERLAYMENT FOR ICE AND  
WATER PROTECTION**



PHYSICAL PROPERTIES	ASTM SPECIFICATION D1970	TYPICAL RESULTS
Maximum load MD/CD, min	25 lbf/in. (4.4 kN/m)	Pass
Elongation @ break, min of modified bitumen portion	10%	Pass
Adhesion to plywood, min at 40°F (4.4°C)	2.0 lbf/ft width (0.92 kgf/30.5 cm)	Pass
Adhesion to plywood, min at 75°F (24°C)	12.0 lbf/ft width (5.44 kgf/30.5 cm)	Pass
Thermal stability, max	0.1 in. (3 mm)	No flow
Flexibility temperature	-20°F (-29°C)	Pass
Tear resistance MD/CD, min	20 lbf (89 N)	Pass
Moisture vapor permeance, max	0.1 U.S. perms (5.7 ng/Pa.S.M. <sup>2</sup> )	0.03 U.S. perms (1.71 ng/Pa.S.M. <sup>2</sup> )
Sealability around nail	No leaks	Pass
Waterproof integrity after low temperature flexibility	No leaks	Pass
Waterproof integrity of lap seam	No leaks	Pass

As manufactured, Arctic Seal® meets the requirements of ASTM D1970 TABLE 1, Physical Requirements of Self-Adhering Polymer Modified Bituminous Sheet Materials Used as Steep Roofing Underlayment for Ice Dam Protection.

Effective 2/19  
Supersedes all previously published data  
Check for most current version  
on our website.

**TECHNICAL ASSISTANCE:**

Malarkey has technical services assistance available.  
Contact Malarkey for details:  
Call weekdays 7:00 am to 5:00 pm PST,  
at 800.545.1191 or 503.283.1191.  
technicalinquiries@malarkeyroofing.com

**CORPORATE OFFICE:**

3131 N. Columbia Blvd. Telephone: 503.283.1191  
Portland, OR 97217-7472 or 800.545.1191  
P.O. Box 17217 Fax: 503.289.7644  
Portland, OR 97217-0217