*IB*ARRIER™ 120G TG SBS

Product Description:

*IB*ARRIER 120G TG SBS is comprised of a 120-mil thick fiberglass mat that is saturated and coated on both sides with SBS polymer modified bitumen. The top side is a sanded surface, and the underside is surfaced with a polypropylene film that is designed to be applied using a propane torch application. Meets or exceeds ASTM D6163, Type I, Grade S.

Only the following substrates1 are acceptable to receive the *IB*ARRIER 120G TG SBS:

- Primed structural concrete decks
- Most gypsum coverboards rated for adhered applications.

[1]Substrates and all surfaces must be clean, dry, and free of dirt, dust, debris, oils, and other contaminants that can affect adhesion. Ensure all substrates receive the specified ASTM D 41 asphalt primer or a rated for receive direct torch grade applications. IB Roof Systems recommends insulation adhesion pull tests in accordance with ANSI/SPRI IA-1 prior to beginning work to confirm acceptable uplift resistance.

Features & Benefits:

- High resistance to foot traffic
- Fiberglass reinforced for superior tear resistance
- Compatible with 2-component insulation adhesives
- May be left exposed for up to 90 days

Temperature Guidelines/Storage & Handling:

Store rolls in an upright position, protected from excessive cold, heat, sunlight, and moisture.

Optimum product storage temperature is 40-90°F (4-32°C) for 24 hours prior to use.

Outside Application Temperature: Ambient temperature is 40°F (4°C) and rising. Bring temperature of membrane to approximately 70°F (21°C) for approximately 24 hours before use. Do not store in direct sunlight or above 90°F (32°C).

Substrate Surface Temperature Range: 40-110°F (13-43°C).

Approvals:

FM APPROVED

cULus LISTED

ESR-2852

Refer to individual assembly approvals for additional information and requirements. Visit our website for links to these agencies and listings at: www.ibroof.com.

Image to Come

Product details stated are nominal as manufactured, and the results of tests and/or calculations and therefore are non-binding and do not represent a guarantee or warranted characteristics. User and/or designer are responsible for confirming suitable performance for specific application and conforming with all applicable laws and regulations.

***IB*ARRIER 120G TG SBS**				
Squares/ Roll	**Roll Size**	**Coverage w/ 4" Lap**	**Weight**	**Rolls/ Pallet**
1.07 Squares (107.4 sq. ft.)	3.4' x 32.75' (1m x 10m)	0.976 Squares (97.6 sq. ft.)	88 lbs.	20
FUNCTION/USE		**APPLICATION**		
Air Barrier / Vapor Retarder / Field Base Ply		Torch Applied		

Physical Properties:

Property	ASTM Method	Results	
		MD	XMD
Thickness (Avg.)	D5147	120 mils (3.0 mm)	
Tensile Strength (Avg.) @ 0°F	D5147	108 lbf./in.	70 lbf./in.
Tensile Strength (Avg.) @ 73°F	D5147	68 lbf./in.	30 lbf./in.
Ultimate Elongation @ 0°F	D5147	5%	6%
Ultimate Elongation @ 73°F	D5147	4%	3%
Tear Resistance (Avg.) @ 73°F	D5147	111 lbf.	65 lbf.
Low Temperature Flexibility, @ 0°F	D5147	Pass	
Dimensional Stability, %	D5147	<0.2%	<0.2%
Compound Stability, °F	D5147	250°F	

* Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

Surface Preparation:

All substrates must be primed with an ASTM D41 Asphalt Primer unless specifically board is factory primed or otherwise rated for direct torch grade applications. The substrate should be clean and sound, free of loose materials or contaminants, such as water or grease that may compromise the performance of the product.

IB Roof Systems®

Application:

Refer to IB® Specifications and Construction Details for additional installation instructions. Membranes must not be applied during adverse weather or without precautionary measures in temperatures below 40°F (4°C). All surfaces should be clean, dry, free of dirt, dust, debris, oils, soaps, coatings, and other contaminants that may inhibit bonding. Prime substrates as required. Seal around all roof edges, openings, and penetrations to put the building in the dry.

1. Install full-width sheets, lapping 4" (10 cm) on the sides and 6" (15.2 cm) on ends. Stagger adjacent end laps a minimum of 18" (45.7 cm) apart.

2. All laps must be parallel or perpendicular to the slope of the roof such water is never against the lap.

3. Never apply SBS torch grade membranes by any method except welding with a propane torch or other heat welding equipment specifically designed for application of SBS torch grade modified bitumen. Extreme care should be taken to avoid overheating of the sheet.

4. The coiled membrane must be unrolled and allowed to relax. Reroll to apply. Unroll approximately 10 ft. (3 meters), align the roll, then the propane torch flame is applied uniformly across the exposed back surface of the membrane and lap areas until the compound reaches the proper application temperature and exhibits a slight sheen.

5. Be sure that there are complete burn-off of release films where present on the underside of the rolls, membrane selvage edges or both surfaces as applicable.

6. Avoid overheating which may result in damage to or improper adhesion of the membrane. (The flame should be moved from side to side in the shape of an "L", applying about 80% of the heat to the membrane and 20% to the substrate or underlying plies including the lap area of the previously installed courses.) The membrane is unrolled as heat is applied to ensure proper adhesion.

7. When complete, re-roll the opposite end of the membrane and install it in the same manner. A minimum 1/4" (6.5 mm) bitumen flow-out must be obtained at all seam areas. Dry laps are not acceptable.

8. To ensure the proper 1/4" (6.5 mm) flow of bitumen at the seam areas, a weighted roller may be used. Roller application should follow behind the torch no more than 4 ft. (1.2 m) or less than 3 ft. (0.91 m) to be sure that the membrane will be at the proper temperature to produce proper flow. Hand rollers or "walking-in the seam" methods are also acceptable.

9. Check all seams for full and uniform adhesion. Un-adhered seams must be lifted with a heated trowel and re-sealed by lightly torching the seam area.

10. All end laps must be staggered by a minimum of 18" (45.7 cm) so that no adjacent end laps coincide.

11. If end laps fall in line or are not staggered the proper distance, the full width of SBS torch grade membrane must be installed over the end laps.

12. Follow with an adjacent course in the same manner, lapping 4" (10 cm) on the sides and 6" (15.2 cm) on ends.

Limitations:

- Do not store in direct sunlight.
- Do not use when ambient, substrate or product temperatures are outside specified temperature ranges.
- Do not use during inclement weather, on wet surfaces or on any roof deck showing signs of deterioration or loss of structural integrity.
- Shelf life is approximately 12 months. Always rotate stock. Do not use after the expiration date.

Safety:

Do not install of SBS torch grade membranes without careful review and implementation of all relevant safety and fire watch requirements including materials / combustible substrates review, LP-Gas equipment storage and handling guidelines, worker safety precautions and training.

Installation of torch-applied products creates the risk of fire, including smoldering fires. Torch applied products must be applied only by professional roofing applicators trained in proper torch application and safety procedures. Roofing applicators must follow NRCA's current roofing safety requirements, procedures and specifications, which are available from www.nrca.net.

Go to https://ibroof.com/tds for the most up-to-date version of this document. **Toll Free: 800-426-1626**