

# Brai® Supreme™ Specifications

## Specification Sheet



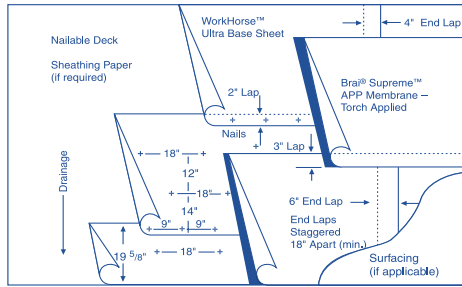
*Quality You Can Trust Since 1886...  
From North America's Largest Roofing Manufacturer™*

# BRAI<sup>®</sup> SUPREME<sup>™</sup>

APP Modified Bitumen Roofing Membranes  
Specifications

*“Exclusive Formula Ensures  
Extraordinary Heat Resistance,  
Low Temperature Flexibility And  
Unique Handling Characteristics”*

## TWO (2) PLY APP TORCH SYSTEM NAILABLE DECK (Formerly B-SP-4000-N)



### GENERAL

**Safety:** See reverse side. DO NOT BEGIN INSTALLATION UNTIL THIS INFORMATION IS READ, UNDERSTOOD AND IMPLEMENTED.

### MATERIALS

Material Requirements per 100 sq. ft.:

WorkHorse Ultra Base Sheet .....1 ply  
Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane .....1 ply  
Surfacing (if applicable)

### APPLICATION

**Base Sheet:** Mechanically fasten one ply of base sheet over the deck. Lap sheets 2" (5 cm) on side laps and 4" (10 cm) on end laps. The first row of fasteners (on the seam) will be 1 1/2" (3.8 cm) from the leading edge and on 9" (23 cm) centers. Locate the second row of fasteners 14" (36 cm) from the leading edge and on 18" (46 cm) centers. The third row of fasteners should be 26" (66 cm) from the leading edge on 18" (46 cm) centers. The spacing for the second and third rows should be staggered.

**Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane:** Heat weld Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane over the base sheet. Starting at the low point of the roof surface, set the roll in the course to be followed and unroll half the roll where practical. Position the membrane to provide a minimum of 3" (8 cm) side laps and a 6" (15 cm) end lap. Using the torch, apply the flame to the surface of the coiled portion of the roll until the surface reaches the proper application temperature (approximately 350° F). The side lap and end lap areas of the previously applied sheet must also be heated to provide proper adhesion. The flame should be moved from side to side and up the side lap area of the previously applied sheet. Unroll the membrane while pressing onto the underlying surface. BE SURE that the surface of the roll is heated sufficiently so that it develops a sheen and the texture-backed products lose their sharp definition. The presence of heavy smoke means that the surface is being overheated. When this half of the roll is secure, reroll the other half of the roll and heat weld in place in the same manner. Field seams should not be troweled.

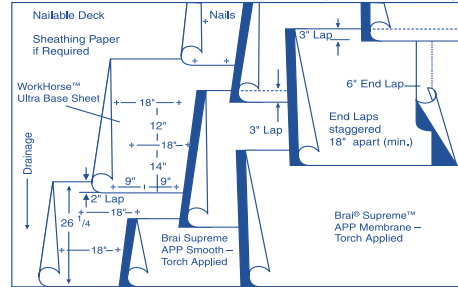
- At the 6" (15 cm) minimum end laps, sufficient heat must be applied to the granule surfaced Brai<sup>®</sup> Supreme<sup>™</sup> APP Membranes to cause the granules to sink into the top surface coating to assure a receptive surface for bonding to the overlapping next roll of Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane.

- Occasionally, a roll of Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane will contain a splice that was fabricated as part of the manufacturing process. These splices are marked. Cut out all splices, and treat as an end lap area.

**Note:** Do NOT install torch applied Brai<sup>®</sup> Supreme<sup>™</sup> APP Membranes with asphalt. Do NOT use in conjunction with roofing cements.

**Surfacing:** Coatings are required for smooth surfaced torch applied Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane installations to be guaranteed for 12 years. Apply LeakBuster<sup>™</sup> Aluminum Roof Coating within 1 - 4 weeks or a low voc alternative such as LeakBuster<sup>™</sup> 322 Elastometric Roofing Membrane after 90 days. Surfacing must be reapplied as part of a periodic maintenance program. The frequency will vary depending on climatic conditions.

## THREE (3) PLY APP TORCH SYSTEM NAILABLE DECK (Formerly B-SP-7000-N)



### GENERAL

**Safety:** See reverse side. DO NOT BEGIN INSTALLATION UNTIL THIS INFORMATION IS READ, UNDERSTOOD AND IMPLEMENTED.

### MATERIALS

Material Requirements per 100 sq. ft.:

WorkHorse Ultra Base Sheet .....1 ply  
Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane .....1 ply  
Surfacing (if applicable)

### APPLICATION

**Base Sheet:** Mechanically fasten one ply of base sheet over the deck. Lap sheets 2" (5 cm) on side laps and 4" (10 cm) on end laps. The first row of fasteners (on the seam) will be 1 1/2" (3.8 cm) from the leading edge and on 9" (23 cm) centers. Locate the second row of fasteners 14" (36 cm) from the leading edge and on 18" (46 cm) centers. The third row of fasteners should be 26" (66 cm) from the leading edge on 18" (46 cm) centers. The spacing for the second and third rows should be staggered.

**Interply:** Starting at the low point of the roof surface with a 19 5/8" width of Brai<sup>®</sup> Supreme<sup>™</sup> APP Smooth, set the roll in the course to be followed and unroll half the roll where practical. Position the membrane to provide a minimum of 3" side laps and 6" end lap. Using the propane torch, apply the flame to the surface of the coiled portion of the roll until the surface reaches the proper application temperature (approximately 350° F). The side lap and the end lap areas of the previously applied sheet must also be heated to provide proper adhesion. The flame should be moved from side to side and up the side lap area of the previously applied sheet. Unroll the membrane while pressing onto the underlying surface. Be sure that the surface of the roll is heated sufficiently so that it develops a sheen and the texture-backed products lose their sharp definition. The generation of heavy smoke is an indication that the surface is being overheated. When this half of the roll is secure, reroll the other half of the roll and torch in place in the same manner. A minimum of 1/4" flow out of modified bitumen compound is required at all seams. Field seams should not be troweled.

**Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane:** Heat weld Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane over the interply sheet. Starting at the low point of the roof surface, set the roll in the course to be followed and unroll half the roll where practical. Position the membrane to provide a minimum of 3" (8 cm) side laps and a 6" (15 cm) end lap. Using the torch, apply the flame to the surface of the coiled portion of the roll until the surface reaches the proper application temperature (approximately 350° F). The side lap and end lap areas of the previously applied sheet must also be heated to provide proper adhesion. The flame should be moved from side to side and up the side lap area of the previously applied sheet. Unroll the membrane while pressing onto the underlying surface. BE SURE that the surface of the roll is heated sufficiently so that it develops a sheen and the texture-backed products lose their sharp definition. The presence of heavy smoke means that the surface is being overheated. When this half of the roll is secure, reroll the other half of the roll and heat weld in place in the same manner. Field seams should not be troweled.

- At the 6" (15 cm) minimum end laps, sufficient heat must be applied to the granule surfaced Brai<sup>®</sup> Supreme<sup>™</sup> APP Membranes to cause the granules to sink into the top surface coating to assure a receptive surface for bonding to the overlapping next roll of Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane.

- Occasionally, a roll of Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane will contain a splice that was fabricated as part of the manufacturing process. These splices are marked. Cut out all splices, and treat as an end lap area.

**Note:** Do NOT install torch applied Brai<sup>®</sup> Supreme<sup>™</sup> APP Membranes with asphalt. Do NOT use in conjunction with roofing cements.

**Surfacing:** Coatings are required for smooth surfaced torch applied Brai<sup>®</sup> Supreme<sup>™</sup> APP Membrane installations to be guaranteed for 12 years. Apply LeakBuster<sup>™</sup> Aluminum Roof Coating within 1 - 4 weeks or a low voc alternative such as LeakBuster<sup>™</sup> 322 Elastometric Roofing Membrane after 90 days. Surfacing must be reapplied as part of a periodic maintenance program. The frequency will vary depending on climatic conditions.

# BRAI<sup>®</sup> SUPREME<sup>™</sup>

## APP Modified Bitumen Roofing Membranes

### Roofing Design

U. S. Intec Brai<sup>®</sup> Supreme<sup>™</sup> APP Membranes must be installed in accordance with U.S. Intec's specifications and industry recommended practices, taking into account specific design considerations.

The following list represents the most commonly encountered roofing situations that can influence the performance of a roofing system and must be taken into consideration by the roofing professional:

Roof slope	Fire and wind rating requirements
Ambient conditions	Code requirements
Flashing details	Drainage
Deck type	Storage of materials
Existing conditions	Preparation of deck/existing system
Roof top penetrations	

For recommendations on the above listed items and information on the installation of modified bitumen membranes, please consult the current U.S. Intec Technical Specifications Manual. A copy of this manual is available by contacting our Contractor Services Department at 1-800-624-6832.

### Safety Precautions/Considerations

Roofing is a hazardous activity. Workers must be properly trained to work in a manner to avoid falls, burns, back injuries, heat related afflictions, etc. It is the sole responsibility of the roofing applicator to enforce fire safety precautions and to ensure safety at all times. All appropriate OSHA and local codes should be followed in the application of roofing. All personnel involved in roofing should be properly trained in safety and fire procedures. Proper clothing and equipment should be worn at all times on the job site.

We recommend the National Roofing Contractors Associations *Passport To Safety* booklet which addresses numerous safety concerns:

National Roofing Contractors Association  
O'Hare International Center 10255 West Higgins Rd. Suite 600  
Rosemont, IL 60018-5607  
(847) 299-9070

### Torch Safety Information

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 U.S. Intec's current roofing safety requirements, procedures and specifications, which are available from U.S. Intec Contractor Services, toll-free 1-800-624-6832. Procedures and equipment that will be used must comply with all applicable code requirements. Knowledge of the building construction and HVAC systems must be obtained prior to installation of torch-applied products. All potentially combustible and flammable aspects of the buildings use and design that increase the risk of fire must be identified. A base sheet must be used between the roofing membrane and any combustible materials

such as wood. Never apply flame directly to combustible materials or allow the flame to enter into hidden or protected areas that may contain combustible materials. A supervisor trained in torch safety must conduct external and internal fire watches during application and after the torches are shut down. The watches shall never be less than one hour and may need to be longer. Infrared scanning equipment must be used in the fire watch. One Class ABC fire extinguisher must be kept within 10 feet of every torch operator. The above list is not a complete set of necessary safety requirements, procedures, and specifications. Train all personnel in U.S. Intec's recommended application techniques. Train all personnel in fire prevention and extinguishing methods. Take precautions when working around combustible materials, such as gas lines for HVAC units, and in the presence of solvent-based products. **Use caution to prevent burns and train personnel in first aid procedures.** Comply with all applicable fire regulations regarding the storage and use of propane.

### Colored Granule Selection Chart



Please Note: It is difficult to reproduce the color, clarity and actual color blends of these products. Before selecting your color, be sure to see a full-sized roll.  
\*Special order product rolls.



## Product Specifications

Membrane	APP Smooth <sup>1</sup> (Formerly SP-4 Smooth)	APP Granule (Formerly GBSP-4 Mineral Surfaced)	APP Granule FR (Formerly GBSP-4FR Mineral Surfaced Fire Resistant)
Nominal Size of Roll <sup>2</sup>	One (1) Square	One (1) Square	One (1) Square
Nominal Roll Weight <sup>2</sup>	88 lb (40 kg)	105 lb (48 kg)	105 lb (48 kg)
Dimensions	39 3/8" x 32'9" (1 m x 10 m)	39 3/8" x 32'9" (1 m x 10 m)	39 3/8" x 32'9" (1 m x 10 m)
Membrane Thickness	4.0 mm (160 mils)	4.3 mm (170 mils)	4.3 mm (170 mils)
Application Method	Torch	Torch	Torch
Surfacing	Smooth	Mineral	Mineral

<sup>1</sup>Note: When used as a cap membrane, it must be surfaced with a roof coating or a flood coat of asphalt and gravel or granules.

<sup>2</sup>Sizes and weights listed are approximate and are for unapplied rolls.



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