

TECHNICAL DATA

STRONGSEAL DB

NAIL-DOWN PERFORMANCE RUBBER ROOFING UNDERLAYMENT

DESCRIPTION:

StrongSeal DB is a nail down performance rubber roofing underlayment membrane derived from recycled tire crumb rubber that delivers exceptional waterproofing performance over traditional asphalt based products. StrongSeal DB is a proven roofing underlayment membrane with a record of protecting roofs from moisture intrusion and wind-driven rain. StrongSeal DB is installed over the field of the roof deck prior to common exterior roofing materials such as asphalt shingles, slate, tile, shake and metal roof coverings. StrongSeal DB membrane can also be used on parapet walls behind the exterior insulation and finishing system (EIFS) or stucco architectural finish.

StrongSeal DB is not a self-adhering roofing underlayment therefore, it is not recommended for use at critical roof details or to protect the structural roof deck from water penetration from ice dams.

StrongSeal DB is a durable 30 mil (0.75 mm) thick rubber membrane waterproofing material that contains no asphalt. The membrane is supplied in lightweight rolls measuring 67-feet in length (20.4 m) and is available in two widths; 3-feet (914 mm) for a total membrane area of 201 square feet (18.7 sq m); and 18" (457 mm) for a total membrane area of 100.5 square feet (9.35 sq m). The product is significantly lighter than asphalt membranes making it easier to handle and apply.

StrongSeal DB is designed to deliver years of superior weatherproofing protection, as well as ecological relief to our environment. This recycled rubber underlayment provides exceptional resistance to inclement weather. StrongSeal is ideal protecting your structure for years to come. The longevity of StrongSeal makes it ideal for metal, tile and slate roofing.

FEATURES AND BENEFITS:

- ▶ **Asphalt-Free Performance Rubber Barrier:** The key to StrongSeal DB exceptional barrier performance is the thick rubber membrane that contains no asphalt. The rubber membrane can withstand prolonged exposure and is durable enough to handle heavy foot traffic.
- ▶ **High Temperature Resistance:** StrongSeal DB can withstand in service temperatures as high as 300°F (148°C) and will not flow or leech at elevated temperatures like typical asphalt membranes.
- ▶ **Exposure:** StrongSeal DB can remain exposed for up to one (1) year in direct sunlight and inclement weather making it ideal for long dry-in conditions common with new construction, metal, tile, slate and shake roof designs.
- ▶ **Low Temperature Application:** The membrane remains flexible in cold weather and will roll out without cracking or shatter when fastened.
- ▶ **Non-Absorbent:** The membrane does not absorb moisture, avoiding buckling and wrinkling like conventional organic felt underlayments, thereby eliminating drying downtime.
- ▶ **Seals Around Fasteners:** StrongSeal DB passes ASTM D1970 nail sealability sealing around typical roof fasteners, like a gasket, resisting leakage and moisture intrusion from wind driven rain.
- ▶ **Sustainability:** StrongSeal DB is made from an exceptionally high percentage of recycled material recycling over 600 tires per truckload and is 100% recyclable making it a "green", earth-friendly product. Its high post-consumer recycled content makes it the perfect product to specify for LEED™ projects.
- ▶ **Longevity:** The membrane will not crack, dry out or rot; maintaining its integrity for long lasting protection matching the longevity of metal, tile and slate roofs.
- ▶ **Slip Resistant Surface:** StrongSeal DB features a slip resistant surface for safe and easy installation. Its thick rubber membrane promotes traction "like a gym shoe".

- ▶ **Warranty:** StrongSeal DB is backed by an industry leading 20-year limited material warranty from a publicly held company established in 1927.

ROOF DECK PREPARATION:

StrongSeal DB should only be installed over a clean, dry, continuous sloped structural roof deck. Suitable substrate materials include plywood, OSB (oriented strand board), wood plank, metal, polyisocyanurate insulation, extruded polystyrene insulation, gypsum roof board and concrete. Remove dust, dirt, loose nails, and other debris. Roof deck must be broom swept clean prior to installing membrane. Roof deck should have a minimum pitch of 3:12 without voids or unsupported areas. Remove all protrusions and sharp edges. Pound down all protruding nails. Repair damaged deck areas before installing the membrane. Re-roofing projects require the removal of old roofing materials.

TYPICAL APPLICATIONS

- ▶ Installs under all steep slope roof coverings – asphalt shingles, metal, tile, slate, cedar shakes
- ▶ Installs under parapet walls behind the EIFS or stucco architectural finish
- ▶ Ideal for LEED Projects

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MEMBRANE INSTALLATION

Do not stretch membrane when installing. Install StrongSeal DB to a properly prepared roof substrate. Do not apply heat to the product for application in cold weather. Apply membrane directly to roof substrate. Always begin installation at lowest point on the deck and work up the roof so membrane overlap seams shed moisture. Do not fold over the roof edge.

Cut the membrane into 10-15 ft. (3-5 m) lengths. Roll out membrane and allow the membrane to relax prior to installation. Do not tack at one end of roll and stretch during installation like conventional felt products. Fasten membrane securely to deck with button cap (washer head) fasteners spaced 12" (300 mm) on center along laps and 24" (600 mm) on center along center of roll. For high wind areas increase fasteners to 6" (150 mm) on center along laps and 12" (300 mm) on center along center of roll. Do not use staples as they may not properly secure membrane to deck. For extended exposure metal cap fasteners are recommended as the plastic cap may degrade. For single layer successive membrane courses, align and overlap the side edge of the previously installed sheet a minimum 3" (75 mm) or 6" (150 mm) in high wind areas

and end laps a minimum 6" (150 mm) or 12" (300 mm) in high wind areas. Stagger end laps a minimum of 36" (900 mm). For double layer successive membrane courses, align and overlap the side edge 19" (480 mm) over the preceding course, resulting in a 17" (430 mm) exposure. All laps should be installed to shed moisture. Consult local building codes for requirements.

If nailing the membrane to excessive slope or extreme hot or cold conditions, decrease the fastener spacing to 6" centers (150 mm) using button cap nails.

Full roof deck coverage may be applied with proper attic ventilation and roof drainage to minimize interior condensation. Consistent with good roofing practice, install the membrane such that all laps shed water. Always work from the low point to the high point of the roof.

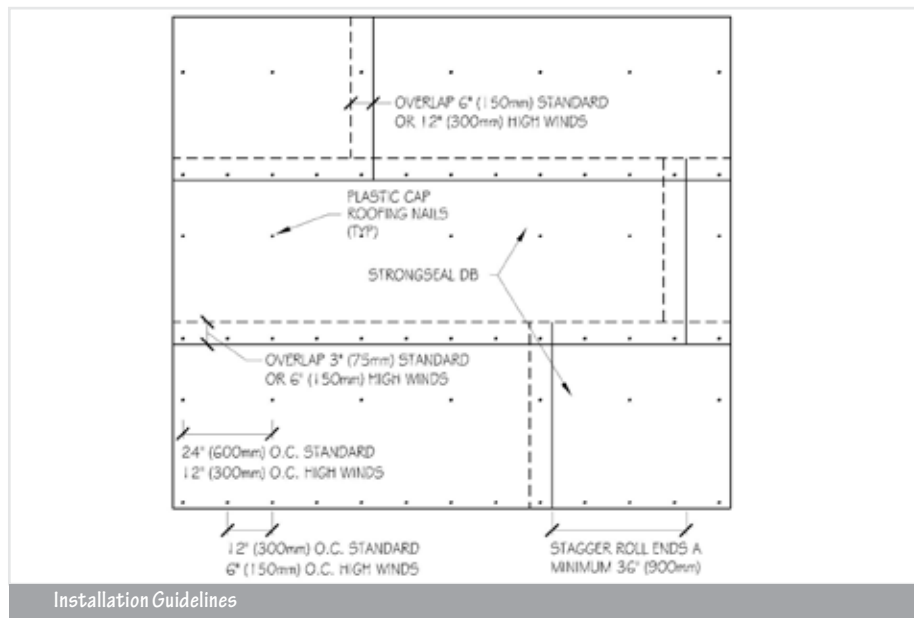
StrongSeal DB membrane can be left exposed during construction as a temporary dry-in barrier for up to one (1) year.

When fastening shingles over the membrane, use smooth shank, electroplated galvanized nails to get the best seal. Hand nailing generally provides a better seal than power-activated nailing. Place metal drip edges over the membrane at time of membrane installation.

STRONGSEAL DB-18 SHAKE INTERLAYMENT INSTALLATION

StrongSeal DB-18 interlayment between the shake courses is required whether the deck sheathing is spaced or solid. StrongSeal DB-18 interlayment acts as a barrier that prevents wind driven rain and snow from entering the attic cavity during extreme weather conditions by forcing water to the surface and increases the roofs insulating value.

Special care should be taken when installing StrongSeal DB-18 over spaced sheathing to ensure that an effective baffle is formed. StrongSeal DB-18 should be applied over the top of the portion of the shakes or slate and extend on to the spaced sheathing so the bottom edge is positioned at a distance above the butt equal to twice the weather exposure.



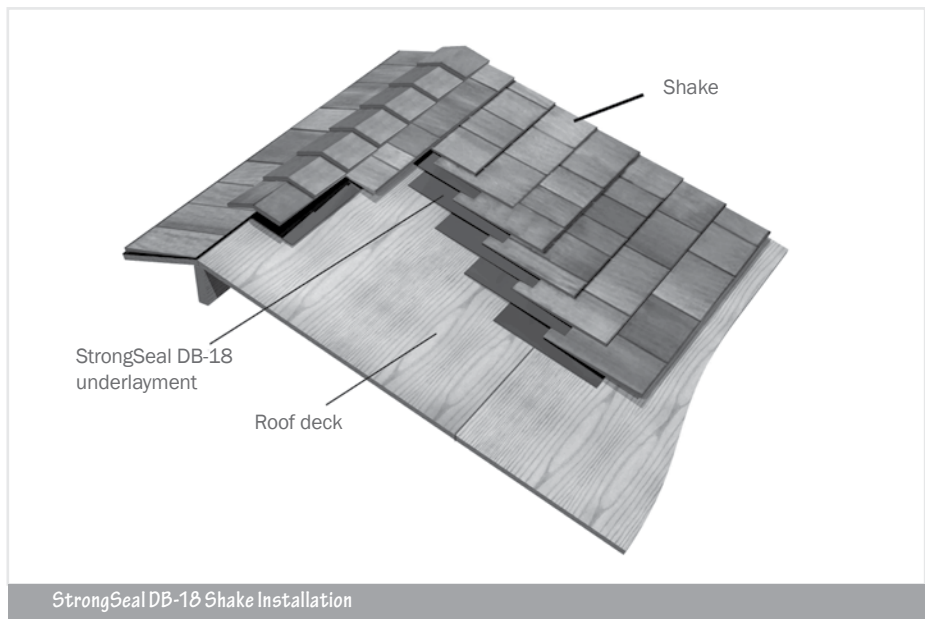
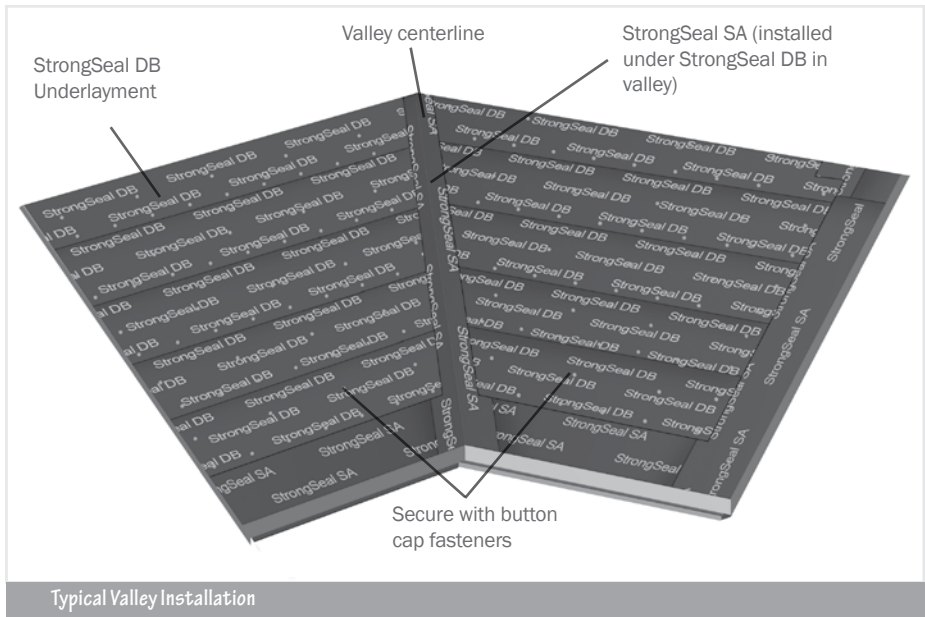
STORAGE

StrongSeal DB roofing underlayment rolls should be stored vertically on end, in a storage facility where the temperature is between 40°F and 100°F (4°C and 38°C). Use a protective covering over pallet while being temporarily stored on site. Keep membrane on pallets when storing to avoid standing in water. Membrane must be kept at a minimum 40°F (4°C) for 24 hours prior to use.

Do not double stack pallets.

PRECAUTIONS AND LIMITATIONS

- ▶ Membrane can be slippery when wet or covered with frost.
- ▶ Always wear fall protection equipment when working on a roof deck and follow good roofing practices.
- ▶ Do not leave permanently exposed to sunlight. Maximum recommended exposure is one-year.
- ▶ Provide proper roof insulation and ventilation to reduce ice dams and minimize condensation.
- ▶ Do not install fasteners through the membrane over unsupported areas of the structural deck or leave holes from removed fasteners.

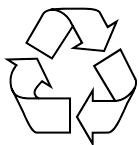


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PRODUCT DATA		
PROPERTY	18" WIDE ROLL	36" WIDE ROLL
Roll Length	67 feet (20.4 M)	67 feet (20.4 M)
Roll Width	18" (457 mm)	36" (914 mm)
Roll Size	100.5 sq-ft (9.35M ²)	201 sq-ft (18.7 M ²)
Rolls/Pallet	40	20
Maximum Service Temp	300°F (148°C)	300°F (148°C)

PERFORMANCE PROPERTIES		
PROPERTY	TEST METHOD	TYPICAL VALUE
Membrane Thickness	ASTM D5147	30 mils
Materials & Manufacture	ASTM D226	Free of lumps, particals or foreign substances
Average Breaking Strength	ASTM D146 ASTM D146	55 lbF/in MD 36 lbF/in XMD
Pliability at 77°F	ASTM D146	pass/no cracking
Moisture at Point of Mfg	ASTM D146	0.3%
Unroll at 50°F and 140°F	ASTM D226	pass/no cracking or sticking
Workmanship, Finish & Appearance	ASTM D226	pass
As StrongSeal DB contains no asphalt, the net mass of saturated felt, mass of saturants, mass of desaturated felt, ash and saturation tests were not performed.		
StrongSeal DB meets or exceeds ASTM D226 Type II Standard Specifications		



Made from post-consumer recycled materials

SEPTEMBER 2010

IMPORTANT: The information contained herein supersedes all previous printed versions, and is believed to be accurate and reliable. For the most up-to-date information, please visit www.CETCO.com. CETCO accepts no responsibility for the results obtained throughout application of this product. CETCO reserves the right to update information without notice.



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