

# Tremco/USG Securock®

## A Fiber Reinforced, Moisture Resistant Gypsum Roof Board

### FEATURES

- No fiberglass facer
- Treated gypsum core
- High compressive strength
- Available in variety of thickness

### BENEFITS

- Surface does not overabsorb adhesives
- Minimal surface dusting
- Moisture resistant
- Fire resistant
- Impact resistant
- Puncture resistant
- Excellent flute spanability
- Conforms to surfaces
- Provides rigid overlayment/underlayment

### DESCRIPTION

Tremco/USG Securock® consists of a fiber reinforced, moisture resistant gypsum blend that is homogeneous from surface to core. The panel surfacing is compressed to provide a low dusting surface, with moisture resistance provided through the use of a silicone based additive. Securock contains 97% recycled material and meets ASTM D1278 / C1278M, the Standard Specification for Fiber-Reinforced Gypsum Panel.

### BASIC USES

Tremco/USG Securock is used as a non-structural roof board in a variety of low slope roof system configurations. Securock is recommended as an overlayment (cover) board in cold process and hot applied BUR and MB roof systems. Securock is also a substrate for Tremco Single Ply roof systems. Securock may be applied directly to structural roof decks such as steel and wood to improve the application or fire resistance of the roofing assembly. Securock is also recommended as a substrate for vapor retarder systems.

Tremco/USG Securock may be used in a variety of non-structural roofing applications. Contact your local Tremco Representative for a list of approved applications.

### DIMENSIONS

Securock is available in truckload quantities in the following standard sizes:

- 1/4" x 4' x 8'
- 3/8" x 4' x 8'
- 1/2" x 4' x 8'
- 5/8" x 4' x 8'

Securock is also available in 4' x 4' dimensions. Please contact your local Tremco Representative for information regarding lead times for 4' x 4' sizes.

### APPLICATION

**General Application Data:** Roof replacement usually involves more complexities than new construction roofing. Often encountered are situations such as rusted/deteriorated decks, rotted wood components, rooftop equipment which cannot be shut down, and numerous other conditions.

The following application information is designed to serve as a general guide. Your local Tremco Representative will prepare detailed specifications based on the condition of your roof.

**Structural Decks:** Must be properly designed and structurally sound.

**Drainage:** Ponding conditions are unacceptable and will adversely affect the performance of any roofing system. If positive drainage does not exist, water removal from the roof surface must be facilitated by lowering drains, and/or installing drains, tapered insulation, or Tremco approved lightweight insulating concrete system.

**Roof Board Storage:** Roof boards must be dry and kept dry. When stored outdoors, stack roof boards on pallets at least 4 inches (100 mm) above the ground level. Upon receipt of roof board on the job site, remove the factory plastic packaging. Cover the top and sides of the roof board with waterproof tarpaulin (not polyethylene) and secure. Do not stack more than two pallets high.

**Surface Preparation:** Prior to installing the insulation and/or roof board, the substrate must be clean, dry and free of dust, dirt, oil, or other contaminants. Concrete and gypsum decks must be properly cured and sufficiently dry prior to installing insulation and/or roof board.

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## APPLICATION CONTINUED

**Approved Attachments Methods:** Securock may be installed in cold applied insulation adhesive or in a full mopping of Tremco Premium III Asphalt or ASTM D 312, Type III asphalt. Mechanical fasteners can also be used to attach Securock to structural roof decks.

**Direct to Decks:** For Tremco BUR roof system classifications, when Securock (minimum 1/2" thick) is installed directly to a wood roof deck, the resulting deck assembly is considered a non-combustible roof deck per Underwriters Laboratories. The joints of the Securock must be offset 6 inches (150 mm) with the joints in the structural deck.

Securock can also be installed directly to steel, cement, wood fiber, gypsum, and concrete roof decks as a substrate for vapor retarders or other roof membrane systems. Consult with your Tremco Representative for Tremco approved system combinations.

**Overlayment:** Securock may be specified as an overlayment for approved insulation boards, such as polyisocyanurate, wood fiber, and mineral wool insulation. Securock may be used as a substrate for Tremco cold process POWERply® MB and BURmastic® systems. Securock is also used as a substrate for adhered or mechanically attached Tremco Single Ply roof systems.

POWERply torch and heat welded systems may also be applied to Securock, provided the Securock is primed with an asphalt primer and the torch flame or hot air is not pointed directly at the Securock during application.

Hot applied Tremco THERM BUR and POWERply MB systems may be applied directly to Securock provided the bitumen mopping temperature does not exceed 425°F (218°C).

**Gap Board Joints:** Butt board edges and ends loosely (minimum 1/16" gap on all edges). This gap may need to be greater at temperatures below 50°F. Refer to USG Securock guidelines for specific recommendations.

**Adhesive Application:** Set Securock into the insulation adhesive immediately and step into place. Gap board joints as described above.

**Bitumen Application:** Hot applied asphalt can be used to adhere Securock to concrete decks, mechanically attach base sheets, and insulation layer(s) previously secured. Concrete decks must be primed with Tremprime WB or Tremprime QD Low Odor and allowed to thoroughly dry. Adhere Securock to substrate in a full coverage of hot applied asphalt at a coverage rate of 30 lbs. per 100 sq. ft. (1.5 kg/m<sup>2</sup>) ± 20%. Place insulation immediately into the hot bitumen and step into place to achieve a solid bond. Gap the board joints as described above.

**Fastener Attachment:** Tremco Fasteners and Steel Plates are recommended where mechanical attachment is specified. Do not mix fasteners and discs of different brands.

Fasteners must be driven perpendicular to the deck. Fasteners should be driven tight enough so that the disc will not turn. Do not overdrive the fasteners, as the roof boards may fracture and become susceptible to loss of attachment.

## LIMITATIONS

- Tremco/USG Securock is engineered to perform within a properly designed roof system. The use of Securock as a roofing component is the responsibility of the design professional.
- Weather conditions such as dew, rain, snow and moisture drive may have adverse effects on the performance of the roof system. Keep Securock panels dry before, during, and after installation.
- For re-roof or re-cover applications, the existing roofing system must be dry throughout prior to application of Securock.
- When applying solvent-based adhesives or primers, allow sufficient time for the solvent to evaporate to avoid damage to roofing components.
- Do not exceed a maximum asphalt application temperature of hot bitumen of 450°F when using Securock. Application temperatures above these recommended temperatures may adversely affect roof system performance.

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## PHYSICAL PROPERTIES

PROPERTY	TYPICAL VALUE		TEST METHOD
	1/4" (6.4MM)	1/2" (12.7MM)	
Flexural Strength Parallel	40 lbf (178N)	110 lbf (490N)	ASTM C 473 Method 8
Permeance (perms)	30	26	ASTM E 96
R Value	0.2	0.5	ASTM C 518
Flute Spanability	2 5/8" (67mm)	8" (203mm)	ASTM E 661-88
Compression	1800psi	1800psi	ASTM C 473
Weight	157 lbs./SQ	276 lbs/SQ	

## CERTIFICATION

Tremco/USG Securock contains a minimum 97% Pre-consumer Recycled Gypsum and Paper Content per SCS Global Services Registration # SCS-MC-01185

## MAINTENANCE

Your local Tremco Roofing Sales Representative can provide you with effective maintenance procedures which may vary, depending upon specific conditions. Periodic inspections, early repairs and preventative maintenance are all part of a sound roof program.

## PRECAUTIONS

Users must read container labels and Safety Data Sheets for health and safety precautions prior to use.

## TECHNICAL SUPPORT

Your local Tremco Roofing Sales Representative, working with the Technical Service Staff, can help analyze conditions and needs to develop recommendations for special applications.



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