USG Roofing Solutions

USG SECUROCK® BRAND HIGH-PERFORMANCE ROOF BOARD APPLICATIONS

There are four basic components in a low-slope commercial roof assembly:

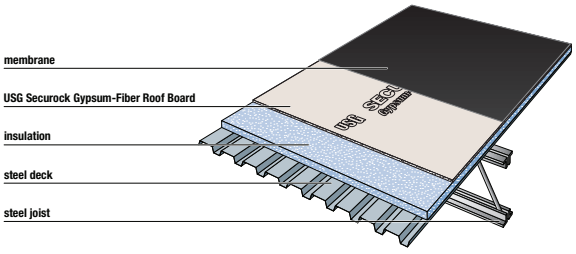
- A structural deck and joists, which can be formed of steel, wood or concrete
- Insulation, including polyisocyanurate (ISO), extruded polystyrene (XPS) or expanded polystyrene (EPS)
- Roof cover board installed between the insulation and the roofing membrane to protect the insulation and support the membrane, improving fire protection, traffic and hail resistance, and wind-uplift performance
- A membrane or membrane system, which can be built-up roofing (BUR), single-ply or modified bitumen

The following are for illustration purposes only. USG Securock® Brand high-performance roof boards are engineered to perform within a properly designed roof system. The use of USG Securock high-performance roof boards as a roofing component is the responsibility of the design professional. Consult roofing manufacturers for specific instructions on the application of their products to USG Securock high-performance roof boards.

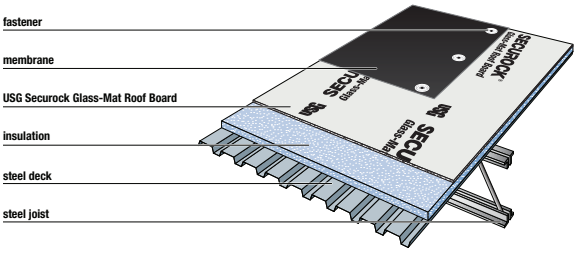
COVER BOARD

USG Securock high-performance roof board is placed directly below the roofing membrane, providing primary support for the membrane and protecting the underlying insulation layer from damage during installation and for the service life of the roof. Cover boards are used as impact protection for insulation boards (foot traffic, hail, etc.), to insulation protection from EPDM heat transfer, a surface to which asphalt can be mopped, and as a fire barrier for external fire.

USG Securock Gypsum-Fiber Roof Board recommended for fully adhered membrane.



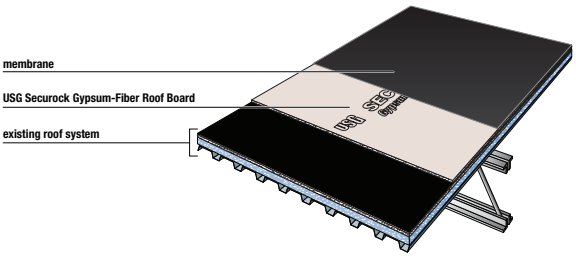
USG Securock Glass-Mat Roof Board recommended for mechanically attached membrane.



ROOF RECOVER BOARD

USG Securock high-performance roof board is placed over the existing membrane surface, where it functions as a separator and a support layer between the old roof and the new roofing membrane. Roof recover boards provide a flat substrate for new roofs and have all of the benefits of a cover board.

USG Securock Gypsum-Fiber Roof Board recommended for fully adhered membrane.



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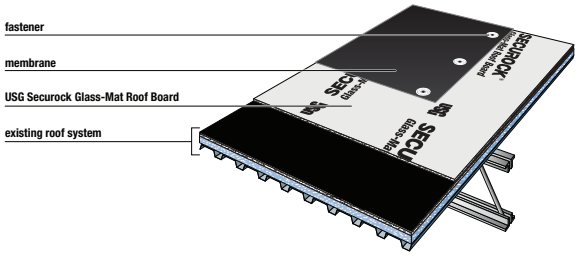

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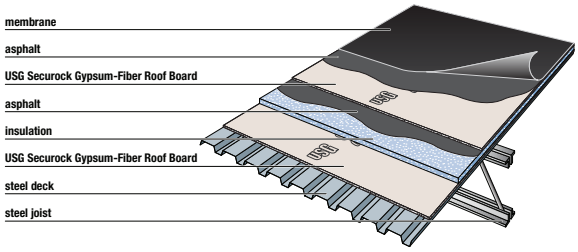
HOT ASPHALT SUBSTRATE (HOT MOP)

USG Securock Gypsum-Fiber Roof Board can be mechanically fastened, bonded with mastic or adhesives, or hot mopped to foam insulation. All hot-applied roofing systems can then be mopped directly onto the unprimed roof board without concern for blistering or delamination. USG Securock Gypsum-Fiber Roof Board is your best option for hot mopping.

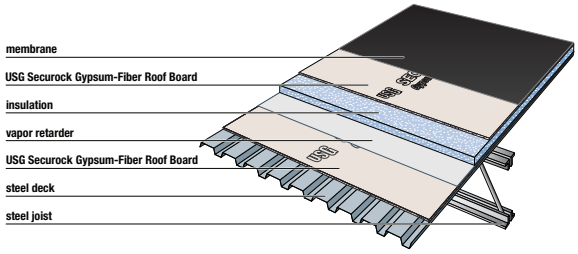
USG Securock Gypsum-Fiber Roof Board.



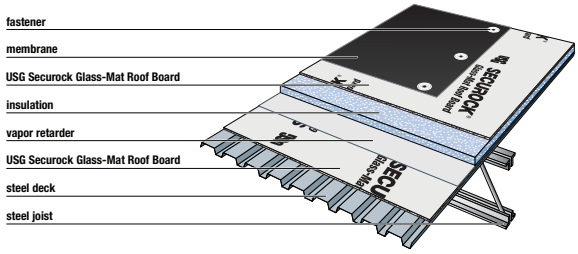
SUBSTRATE FOR VAPOR RETARDERS

USG Securock high-performance roof board is placed over the roof deck to provide support for the vapor barrier. The membrane may be loose laid; attached with cold mastics, hot asphalt or adhesives; or mechanically fastened, depending on the roof assembly. The roof board is used as a substrate for retarder adhesion to reduce condensation.

USG Securock Gypsum-Fiber Roof Board recommended for fully adhered membrane.



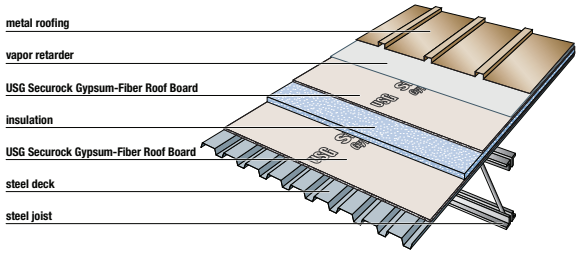
USG Securock Glass-Mat Roof Board recommended for mechanically attached membrane.



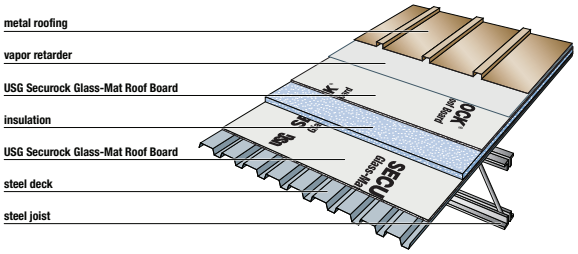
METAL OR TILE ROOF THERMAL BARRIER

USG Securock high-performance roof board provides a thermal barrier in conjunction with a standing-seam metal or tile roofing system. It also provides noise reduction and hail resistance. Thermal barriers reduce thermal "shock" and slow heat escape from building and act as a fire barrier for internal fire.

USG Securock Gypsum-Fiber Roof Board recommended for fully adhered membrane.



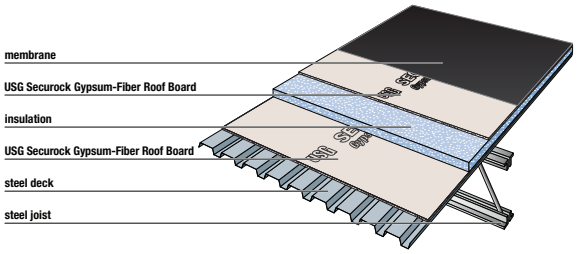
USG Securock Glass-Mat Roof Board recommended for mechanically attached membrane.



THERMAL BARRIER

USG Securock high-performance roof board provides a thermal barrier installed directly to metal deck for both expanded and extruded polystyrene insulation. Thermal barriers reduce thermal "shock" and slow heat escape from building and act as a fire barrier for internal fire.

USG Securock Gypsum-Fiber Roof Board recommended for fully adhered membrane.



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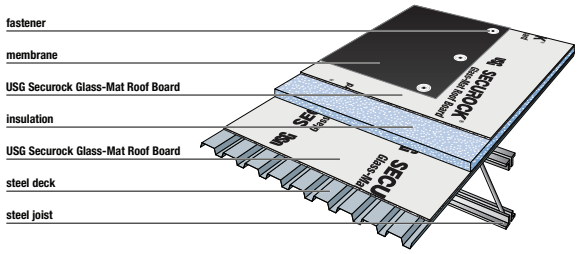

FIRE BARRIER UNDERLAYMENT

USG Securock high-performance roof board is used as a barrier board underlayment below optional rigid foam insulation on a combustible deck to achieve a Class A, B or C fire-resistance rating. See the UL Building Materials Directory for more information.

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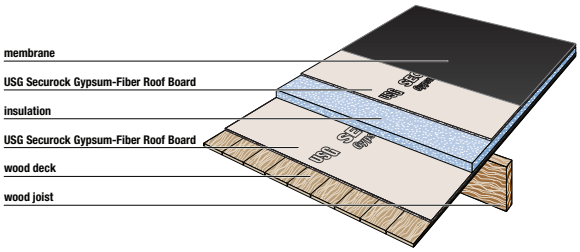

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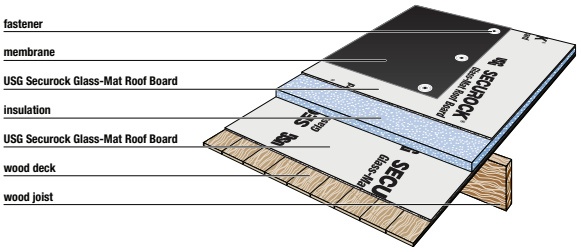

PARAPET WALL SUBSTRATE

USG Securock high-performance roof board is fastened to wood or metal framing along the parapet wall for roofing membrane flashing support.

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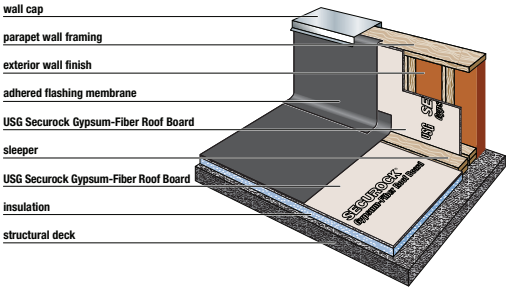

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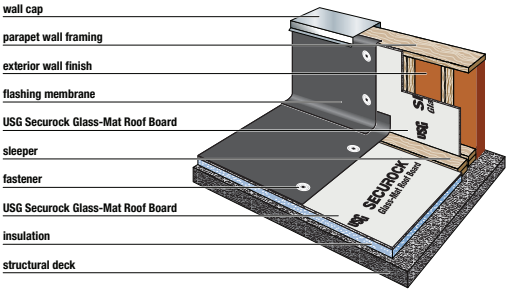

RF44/rev. 2-15

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PRODUCT INFORMATION
See usg.com for the most up-to-date product information.

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