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)
- A membrane or membrane system, which can be built-up roofing (BUR), single-ply or modified bitumen
- 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

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.

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 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 re-cover boards provide a flat substrate for new roofs and have all of the benefits of a cover board.

**USG Securock® Brand Gypsum-Fiber Roof Board**
- Recommended for most fully* adhered membrane
- 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® Brand Cement Roof Board**
- Recommended for most fully* adhered membrane
- USG Securock® Brand Cement Roof Board (optional) can be placed over the existing 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® Brand UltraLight Glass-Mat Roof Board**
- Recommended for mechanically attached membrane
- Can be used in hot aspirtal substrate for vapor retarvers (HOT MOP).

**USG Securock® Brand UltraLight Coated Glass-Mat Roof Board**
- Recommended for fully adhered membrane
- USG Securock® Brand UltraLight Coated Glass-Mat Roof Board (optional) can be used in hot asbestos substrate for vapor retarvers (HOT MOP).
USG Securock® Brand Cement Roof Board recommended for fully adhered membrane

USG Securock® Brand UltraLight Coated Glass-Mat Roof Board recommended for fully adhered membrane

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® Brand Gypsum-Fiber Roof Board recommended for fully adhered membrane

USG Securock® Brand UltraLight Glass-Mat Roof Board recommended for mechanically attached membrane

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® Brand Cement Roof Board recommended for fully adhered membrane

USG Securock® Brand UltraLight Coated Glass-Mat Roof Board recommended for fully adhered membrane
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.

**USG Securock® Brand Gypsum-Fiber Roof Board**
- Recommended for fully adhered membrane
  - membrane
  - USG Securock® Brand Gypsum-Fiber Roof Board
  - insulation
  - vapor retarder (optional)
  - USG Securock® Brand Gypsum-Fiber Roof Board (optional)
  - wood deck
  - wood joint

**USG Securock® Brand UltraLight Glass-Mat Roof Board**
- Recommended for mechanically attached membrane
  - fastener
  - membrane
  - USG Securock® Brand UltraLight Glass-Mat Roof Board
  - insulation
  - vapor retarder (optional)
  - USG Securock® Brand UltraLight Glass-Mat Roof Board (optional)
  - wood deck
  - wood joint

**USG Securock® Brand Gypsum-Fiber Roof Board (optional)**
- Membrane
- USG Securock® Brand Gypsum-Fiber Roof Board
- Insulation
- Vapor retarder (optional)
- Wood deck
- Wood joint

**USG Securock® Brand UltraLight Glass-Mat Roof Board (optional)**
- Membrane
- USG Securock® Brand UltraLight Glass-Mat Roof Board
- Insulation
- Vapor retarder (optional)
- Wood deck
- Wood joint

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

**USG Securock® Brand Gypsum-Fiber Roof Board**
- Recommended for most fully* adhered membrane
  - wall cap
  - parapet wall framing
  - exterior wall finish
  - adhered flashing membrane
  - USG Securock® Brand Gypsum-Fiber Roof Board
  - sleeper
  - USG Securock® Brand Gypsum-Fiber Roof Board
  - Insulation
  - Structural Deck

**USG Securock® Brand UltraLight Glass-Mat Roof Board**
- Recommended for mechanically attached membrane
  - wall cap
  - parapet wall framing
  - exterior wall finish
  - Flashing membrane
  - USG Securock® Brand UltraLight Glass-Mat Roof Board
  - Sleeper
  - Fastener
  - USG Securock® Brand UltraLight Glass-Mat Roof Board
  - Insulation
  - Structural Deck

**USG Securock® Brand Cement Roof Board**
- Recommended for most fully* adhered membrane
  - wall cap
  - parapet wall framing
  - exterior wall finish
  - adhered flashing membrane
  - USG Securock® Brand Cement Roof Board
  - Sleeper
  - USG Securock® Brand Cement Roof Board
  - Insulation
  - Structural Deck

**USG Securock® Brand UltraLight Coated Glass-Mat Roof Board**
- Recommended for fully adhered membrane
  - wall cap
  - parapet wall framing
  - exterior wall finish
  - Flashing membrane
  - USG Securock® Brand UltraLight Coated Glass-Mat Roof Board
  - Sleeper
  - USG Securock® Brand UltraLight Coated Glass-Mat Roof Board
  - Insulation
  - USG Structural Panel Concrete Roof Deck
USG Securock high-performance roof boards provide an exceptional base for all vegetative roof assemblies while protecting the underlaying insulation from damage.

**USG Securock® Brand Gypsum-Fiber Roof Board**
- recommended for fully adhered membrane
- plants
- growing medium
- retention mat
- drainage layer
- protection barrier
- membrane
- vapor retarder (optional)
- USG Securock® Brand Gypsum-Fiber Roof Board
- steel deck
- open web joint

**USG Securock® Brand UltraLight Glass-Mat Roof Board**
- recommended for mechanically attached membrane
- plants
- growing medium
- retention mat
- drainage layer
- protection barrier
- membrane
- vapor retarder (optional)
- USG Securock® Brand UltraLight Glass-Mat Roof Board
- steel deck
- open web joint

**USG Securock® Brand Cement Roof Board**
- recommended for fully adhered membrane
- vapor retarder (optional)
- USG Securock® Brand Cement Roof Board
- steel deck
- open web joint

**USG Securock® Brand UltraLight Coated Glass-Mat Roof Board**
- recommended for fully adhered membrane
- vapor retarder (optional)
- USG Securock® Brand UltraLight Coated Glass-Mat Roof Board
- steel deck
- open web joint

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**SOLAR ROOFS**

USG Securock high-performance roof boards provide a strong and stable base for all solar roof assemblies while protecting the underlaying insulation from damage.

**USG Securock® Brand Gypsum-Fiber Roof Board**
- recommended for fully adhered membrane
- solar panels
- membrane
- USG Securock® Brand Gypsum-Fiber Roof Board
- insulation
- vapor retarder (optional)
- USG Securock® Brand Gypsum-Fiber Roof Board
- steel deck
- open web joint

**USG Securock® Brand UltraLight Glass-Mat Roof Board**
- recommended for fully adhered membrane
- solar panels
- membrane
- USG Securock® Brand UltraLight Glass-Mat Roof Board
- insulation
- vapor retarder (optional)
- USG Securock® Brand UltraLight Glass-Mat Roof Board
- steel deck
- open web joint

**USG Securock® Brand Cement Roof Board**
- recommended for fully adhered membrane
- solar panels
- membrane
- USG Securock® Brand Cement Roof Board
- insulation
- vapor retarder (optional)
- USG Securock® Brand Cement Roof Board
- steel deck
- open web joint

**USG Securock® Brand UltraLight Coated Glass-Mat Roof Board**
- recommended for fully adhered membrane
- solar panels
- membrane
- USG Securock® Brand UltraLight Coated Glass-Mat Roof Board
- insulation
- vapor retarder (optional)
- USG Securock® Brand UltraLight Coated Glass-Mat Roof Board
- steel deck
- open web joint

* For fully adhered fiberglass reinforced membranes consult the membrane manufacturer.

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

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