

# BETTER PROTECT YOUR BUILDING FROM BLAZE

ROOF BOARDS HELP MITIGATE THE RISK OF DAMAGE AT EVERY STAGE OF FIRE



Gypsum is made of calcium sulfate and chemically combined, crystalized water—which can release as **water vapor** when subjected to fire.

## SMOLDER

Whether the source of a fire is inside the building or out, it needs oxygen, fuel, and heat to progress. This is when the materials you choose can make all the difference.

- Combustible roofing materials can ignite and fuel a fire when exposed to the right conditions.
- Choose a roof board made from materials that will help enhance the fire resistance of the roofing assembly.



### FIRE PERFORMANCE FEATURE COMPARISON, BY MATERIAL

	High-Density Polyisocyanurate (HD ISO) Boards	Gypsum Fiber Boards	Fiberglass Mat Gypsum Boards
Meets standard fire test methods for roof coverings (per UL 790)	✓	✓	✓
Noncombustible (per ASTM E136)	✗	✗	✓
0 flame spread or smoke development (per ASTM E84)	✗	✗	✓



## SPARK

Not only are fiberglass mat gypsum roof boards noncombustible, but they also avoid contributing to the spread of toxic fumes. Unfortunately, not all roofing materials can say the same.

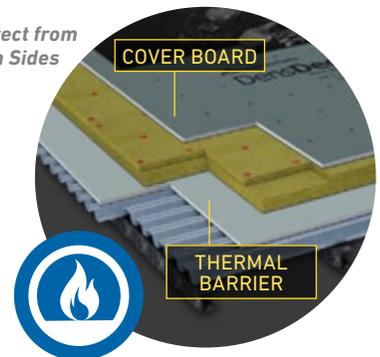
- Toxic smoke and gasses can easily infiltrate the lungs of tenants and first responders, which can prove fatal.
- These fumes can also seep into furniture and building materials to do further unseen damage.

## FLAME

The roof of the building is a crucial area that can either aid or halt continued fire development. Designing the roof with strategic board placement can help block heat and flames from reaching combustible components of the roof assembly from either direction.

- Attached to the roof deck in the thermal position, the board stifles internal fire sources, acting as a barrier to reaching the roofing materials.
- Attached beneath the roof membrane in the cover board position, it helps keep external embers from igniting beyond the roof to the rest of the building below.

Protect from Both Sides



Don't wait until it's too late to learn the importance of planning against fire damage in your building. Learn how the gypsum- and fiberglass-based DensDeck® Prime Roof Board with EONIC™ Technology can add built-in fire resistance to your building's design at [DensDeck.com](https://www.densdeck.com).

For additional product fire, safety, and use information go to [buildgp.com/safetyinfo](https://www.buildgp.com/safetyinfo) or call 1-800-225-6119.

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