



# Hail, Mold, Fire Protection



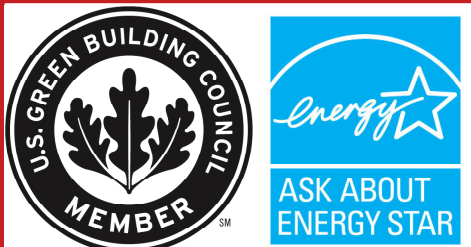
**Hail Damage Test**



**Fire Test Tunnel  
1860°F**



**Minimal Damage after  
Fire Test**



TruProtect is made of the finest components which are treated with environmentally safe materials to help it protect your house or commercial building from fire and smoke damage; mold, mildew, and fungus damage; and hail damage.

## Hail Protection

Hail damage to roofs costs homeowners in higher insurance premiums and in replacement costs. TruProtect is a patented, multi-layer sheet that, when installed under shingles, protects the shingles and the underlying roof.

When hail stones strike shingles, the shingles crack and must be replaced. TruProtect installed under the shingles enables the hail impact to be absorbed—the hail stone boomerangs off the roof without causing damage.

In a side-by-side test comparing a roof assembly with TruProtect as an underlayment and one without, four-pound steel balls were dropped from a height of 20 feet. Impact locations were then analyzed to determine the damage. The sample using TruProtect received significantly less damage than the sample without TruProtect. The TruProtect roof showed 50% less surface damage and 100% less structural damage.

## Mold, Mildew, Fungus, Vermin Protection

A portion of the composition of TruProtect is corrugated fiber board. Under untreated conditions, this material would provide an rich environment for mold, mildew, or fungus growth. To continue it's pledge to provide an ecologically safe product, TruProtect treats its corrugated board with a

coating that inhibits fungal growth. A test using ASTM D-3273 standards was performed. The results provide a numerical basis for rating the degree of fungal growth. After 30 days exposed to a severe fungal environment, TruProtect was rated. Possible test results ranged from significant fungal growth, score of 0-5; some level of growth, score of 6-9; and zero growth, score of 10. TruProtect scored 10, indicating that it held up in arduous conditions without allowing any vermin growth.

## Fire Protection

TruProtect was tested for its fire and smoke spread. Three sheets were placed in a tunnel with an 1860°F flame drawn through the tunnel at about 125 feet per minute. Results are compared to other building materials that are at the extremes of the the scale used.

Specimen	Flame Spread Index	Smoke Developed Index
Mineral Fiber Cement Board	0	0
Red Oak Flooring	100	100
TruProtect	25	20

The test indicates minimal damage done to TruProtect under extreme conditions. Under real conditions, this means that TruProtect can help provide additional time for your employees and your family to escape a fire.

*Architectural Testing, Inc., Southlake, Texas*

UL 2218, is a standard for impact resistance of prepared roof covering material

*Omega Point, Elmendorf, Texas*

ASTM E84-04 is a standard test method for surface burning characteristics of building materials. TruProtect earned a Class A fire rating and a Class A smoke rating.

*Progressive Coating, Inc.*

**TruProtect - Future Solutions Now!**

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