

METAL SHIELD ALUMINUM

Product Description:

METAL SHIELD ALUMINUM is an aluminum chip surfacing sheet manufactured from a heavy fiber glass mat bonded with a resinous binder and coated with SBS (Styrene-Butadiene-Styrene) modified bitumen. The reinforcing glass mat consist of glass fibers that are uniformly distributed and aligned to impart strength in all directions while displaying excellent dimensional stability throughout.

Product Uses:

- May be used as a cap sheet in lieu of conventional granules.
- May be used as a substitute for emulsion/aluminum coated roof systems.
- May be used as a substitute for aggregate surfaced roofs.
- May be used as a substitute for mastic/granule surfaced roofs.

**Product Compliances:**

U.L. listed for use as a component in a Class "A" fire rated roof assembly. All rolls shall be labeled with the U.L. mark. Approved and listed for use in F.M. rated roof membrane assemblies. All rolls shall carry the F.M. approval marking.

Product Features/Benefits:

- High Solar Reflectance.
- Extends Roof Life.
- Reduces Energy Costs.
- Durability.
- Ease of Application.
- Provides Immediate Aluminization.

Physical Properties:

A.	Thickness	95 mil
B.	Weight	45 lbs per 100 sq.ft
C.	Low Temperature Flexibility @-13°F	Pass
D.	Breaking Load @ 73°F	80 lbs.
E.	Ultimate Elongation @73° F	35%
F.	Reinforcement	Fiberglass Mat

Packaging:

METAL SHIELD ALUMINUM weighs 80 lbs. per roll. One roll covers two roofing squares (216 sq. ft.). Each roll shall have factory applied 2" lap stripes. All rolls to be labeled with U.L., F.M. and other markings as appropriate.

Specifications:

- A. METAL SHIELD ALUMINUM is a combination of modified bitumen (SBS) coated inorganic fiber glass and space age aluminum alloy chips, providing performance properties and advantages previously unattainable.
- B. Made of a unique hi-tech alloy to enhance durability and reflectivity, these aluminum chips were designed specifically for the weathering difficulties experienced only in the roofing industry. The chips are developed through a special patented process ... the technique is state-of-the-art and years ahead of conventional roof surfacings.
- C. Initial testing began in the late 70's. Extensive testing and positive test results have confirmed the qualities of reflectivity, durability and light weight. Additional testing documented the chips' ability to reduce heat build-up in roofs, thus reducing cooling costs and increasing the membrane's longevity.
- D. TEST REPORTS AVAILABLE. Independent testing of aluminum chips has been performed. Data collected during this testing is available on chip reflectance, accelerated weathering, bitumen chemistry and aging reflectance. Upon request, Conglas will provide a report on the life extension and energy saving properties of METAL SHIELD ALUMINUM vs. conventional built-up roof surfacings.

Product Application:

- A. METAL SHIELD is recommended to protect the underlying bitumen and plies from the effects of weather.
- B. Apply METAL SHIELD with 2" side laps and 4" on ends.
- C. METAL SHIELD sheets shall extend to the top of cant and shall be solid mopped to underlying plies.
- D. Asphalt is applied at a nominal rate of 25 lbs. per 100 square feet.
- E. All application requirements from the Conglas "General Requirements" are considered part of these specifications.

Precautions/Limitations:

- A. Do not apply when moisture is present.
- B. Cold weather applications may require some material relaxation prior to final application.
- C. METAL SHIELD should be cut into 12-18 foot lengths and 'flopped' into place. Shall not be 'set and rolled' without first cutting and rerolling.