



Triple Wall Mylar Insulation

Arizon is leading the industry with the introduction of our triple wall construction with Mylar as the intermediate layer. The use of Mylar prevents solar heat gain and keeps our structures cooler in the summer.

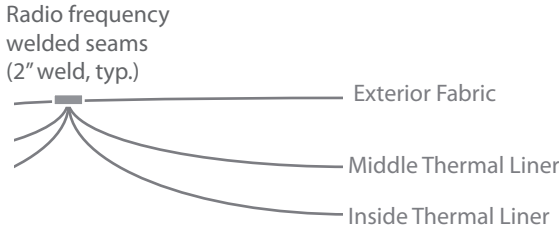
About Triple Wall Mylar Construction

Summer use of the air supported structure usually means air conditioning or uncomfortable conditions inside the dome. In addition to the warmer temperatures of summer, the solar heat gain on all buildings creates a significant demand for more air conditioning. One solution used for years has been reflective Mylar as a building component. Arizon has incorporated that concept into our air supported structure systems.

There are two properties of roof coatings that keep roof surfaces cool in the sun: High reflectivity to reflect away the sun's energy instead of absorbing it, and high emissivity to radiate away any energy they do absorb.

Domes that are situated in deserts or other locations that experience high temperatures either year round or seasonally greatly benefit from this design. Unlike other insulation types that must be installed in the field, triple wall Mylar construction is factory-installed and still delivers exceptional insulative results.

Triple Wall Mylar Construction Detail



Mylar for Building Applications

Mylar polyester films are flexible, strong and durable films with an unusual balance of properties, making them suitable for a variety of industrial applications. The excellent dielectric strength, moisture resistance and physical toughness make Mylar a very versatile and functional insulating material.

Mylar films have balanced tensile properties and excellent resistance to moisture and most chemicals. They can withstand temperature extremes from -100°F to 300°F. Mylar does not become brittle with age under normal conditions, as it does not contain plasticizers.

Mylar film is virtually impermeable to the liquid phase of most chemicals and reagents.

Mylar film is relatively insensitive to moisture absorption. It absorbs less than 0.8% moisture when totally immersed in water for 24 hours.