



Inflatable Air Shelters

FABRICS

ZUMRO, Inc. uses various fabrics for the construction of the Air-Shelters. There are many choices of fabrics for this type of product. The fabrics are selected based on the following criteria: **Ability to Decontaminate, Air-Retention, Chemical Resistance, Durability, Lightweight, Longevity, Strength, and Weather Resistance.** We have been using our selected fabrics for almost two decades and we can safely state that they are tried, proven and have consistently exceeded our performance expectations.

ZUMRO Air-Shelters consist of three basic parts. Below is an outline discussing the section parts and the materials that are used:

1. AIRFRAME

The airframe fabric has an oxford weave rip-stop (6 oz./square yard) base that is then liquid coated on both sides with synthetic, chemical resistant Neoprene Rubber. Total fabric weight is 17 oz./square yard. It has been used for life rafts for over 35 years and meets or exceeds Military and US Coast Guard standards such as Mil-C 17415-16AA.

The combination of this state-of-the-art material with over 60 years of inflatable construction experience have made the ZUMRO airframe one of the most air-holding inflatables in the world! Although our instructions recommend that the structure is "topped-off" every 24 hours, you can expect average deployment time of weeks, maybe months, without need of inflation. The incredible air-retention capability and extreme low-pressure requirement (less than 1 pd/square inch) make the ZUMRO Shelter Frame simply the best you can buy!

2. CANOPY

The canopy fabric is designed to be lightweight and easy to decontaminate. The fabric consists of 4-mil Polyurethane film that is laminated to a 3.5 oz./square yard Nylon. The fabric is strong, mildew and fire resistant (meets California Fire Marshal codes). The exterior Nylon has a water repellent coating and UV inhibitors.

The interior urethane film is white to enhance light reflection while the exterior Nylon can be selected in various colors. The optional interior compartments and shower stalls are made with the fabric as well. We use "white-on-white" fabric unless requested otherwise. The standard exterior color is Blue unless specifically requested. The color choices available are: Black, Green, Olive Drab Green, Red, Tan, White, and Yellow.

Tests showed no deterioration of this fabric when repeatedly washed with a 5% bleach solution, such as used for common decontamination procedures.

3. FLOOR

The floor fabric is a black, 22 oz./square yard Vinyl. The fabric is Nylon reinforced and treated for mildew and UV resistance. Experience has shown that this fabric is ideal for floor material and has excellent wear resistance. ZUMRO Shelter floors are removable; therefore the floor is field replaceable. This design also allows the Shelter to be moved independent of the floor or it can be placed over something (like a trench or vehicle) adding to the versatility of the product.

**Please contact ZUMRO, Inc. if you have any further questions regarding the use of these fabrics.
Please refer to our brochure or website for further specifications and features.**
