TRED-SAFE™ SPECIFICATIONS

1. Walkable fiberglass reinforced polymer wall/roof panels shall be Resolite Tred-Safe Type 1645 translucent or opaque, corrosion resistant and fire retardant as manufactured by Resolite, Moscow, TN., www.resolite.com, 1-888-RESOLITE (1-888-737-6548).
2. Panel manufacturer shall be ISO 9002 certified.
3. Resin shall be high quality isophthalic, neopentyl glycol and halogenated polyester with acrylic modification and UV stabilizers. Resin content of the panel shall be a minimum of 55% by weight.
4. Glass reinforcement shall be composed of multiple layers of bidirectional continuous strand WOVEN MAT and chopped strand multi-directional glass. Glass content shall be a maximum 45% by weight. Both the interior and exterior surface of the panel shall have an internal Corrosion Weathering (C/W) barrier fused to the fiberglass matrix during the manufacturing process.
5. Panel finish shall have an embossed exterior and embossed interior to maximize panel longevity.
6. Panel weight shall be nominal 16 ounces per square foot.
7. Color shall be translucent #35 Frost with a 50% light transmission OR opaque #33 Stone White. (Special Custom Colors are available by request)
8. Profile shall be standard: 7.2” x 1.5” or 4.2” x 1-1/16” optional: 7.2D x 1.75”.
9. Panels shall be Class 1 Fire Rated with a Flame Spread of 25.

STATEMENT OF POLICY

The information provided herein is solely based on factual data available to Resolite from many years of experience in manufacturing, field evaluation, testing and research. This is to be used only as a general guide by the designer and builder.

The overall satisfactory performance of any structural application is predicated by proper design and erection. Resolite will not assume any responsibility for the design, detailing, or erection of the substructure to which Resolite panels are attached.

STORAGE RECOMMENDATIONS

Prior to installation, Resolite panels should be stored indoors in an upright position. Never pile flat, as condensation may form between the panels causing internal fiberbloom and permanent damage.

COLOR NOTICE

Resolite disclaims all warranties expressed or implied with respect to color and/or translucency of polyester resin products.

ADDITIONAL RESOLITE CATALOGS

Literature and samples available upon request.

DISCLAIMER

The information contained herein is for information purposes only. Resolite reserves the right to change or withdraw such information, or the designs and details of the products upon which it is based, either wholly or in any portion thereof, without further notice. For design and detailing assistance on specific products, contact your Resolite sales representative.
Tred-Safe Features

- **A Truly Walkable** Roof Panel - has high impact resistance and is capable of safely supporting normal foot traffic and weight of a maintenance worker without buckling or damage.
- **Fire Rated** - Class 1 Flame Spread classification of 25°.
- **Corrosion Resistant** - produced with high resin content (55% by weight) premium quality isophthalic halogenated polyester resin.
- **Outstanding Weathering** - our premium quality resin incorporates neopentyl glycol, acrylic modification and UV stabilizers.
- **Embossed Surface** - both exterior and interior surface finishes are embossed creating a resin rich surface to improve UV and corrosion resistance.
- **C/W Barrier Protection** - a protective barrier on both exterior and interior surfaces that is fused into the resin/fiberglass matrix to give the panel even greater protection against degradation and eliminate any need for surface applied coatings.
- **Multiple Glass Reinforcements** - Tred-Safe panels utilize a 5 layer combination of glass reinforcement including bidirectional continuous strand WOVEN and chopped strand glass. This multi-layered glass fiber reinforcement provides:
  - Better impact resistance
  - Better fastener pullover values
  - Better resistance to longitudinal splitting
  - Better resistance to internal shear stresses
  - Uniform longitudinal and transverse reinforcements provide increased flexural stability under cyclic loading

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### Roofing Live Load (PSF)

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<td>7.9 10&quot;5&quot; 97&quot; 6&quot;10&quot; 91&quot; 8&quot;5&quot; 62&quot; 81&quot; 78&quot; 5&quot;9&quot; 72&quot; 74&quot; 5&quot;5&quot; 67&quot; 68&quot;</td>
<td>57&quot; 76&quot; 6&quot;10&quot; 4&quot;10&quot; 66&quot; 60&quot; 45&quot; 59&quot; 55&quot; 41&quot; 52&quot; 51&quot; 31&quot;0&quot; 49&quot; 49&quot;</td>
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### Siding / Roofing Wind Load (PSF)

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<td>7.4 95&quot; 90&quot; 6&quot;4&quot; 78&quot; 710&quot; 59&quot; 68&quot; 72&quot; 54&quot; 60&quot; 68&quot; 51&quot; 55&quot; 61&quot;</td>
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**Notes:**
1. Load/Span limits are based on full scale panel tests representing actual field conditions.
2. Panel span/deflection ratios (L/D) shall be limited to L/30 for wind loads and L/45 for live loads.
3. Factors of safety shall be 1.88 for panels subject to wind loads and 2.5 for panels subjected to live loads.
4. Load/Span limits are based on fasteners with 3/4" washers in every low for 7.2 and fasteners with 5/8" washers in every other low for 4.2.
5. Other panel types, weights, glass reinforcements, resin types, lengths, fastening options, or special loading requirements may be available. Please contact Resolite Customer Service Department for more information.

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1. A Tred-Safe walkable panel is one that is resistant to puncturing and tearing; is rugged and durable; and is capable of safely supporting normal foot traffic and the weight of a maintenance worker without buckling or damage. Refer to this or any other material under actual fire conditions.
2. All thicknesses based on flat material. Nominal thickness varies with profile.