

FIBERGLASS REINFORCED POLYMER PANELS

Corrosion-Resistant Solutions for Industrial Construction

- Walkable FRP Roof Panels



- Opaque and Translucent Panels



- High Strength Roof Deck Panels



- UL and Factory Mutual Approved Panels

- FRP Louvers, Ventilators and Gutter Systems



 **Resolite®**

FIBERGLASS REINFORCED POLYMER PANELS

Resolite – The Leader in Fiberglass Reinforced Polymer Composite Panels...for Over Five Decades

RESOLITE'S FRP COMPOSITE PANELS ARE DESIGNED TO WITHSTAND THE EXTREMELY CORROSIVE ENVIRONMENTS OFTEN ASSOCIATED WITH GALVANIZING/PICKLING OPERATIONS, PULP AND PAPER MILLS, CHEMICAL PLANTS, STEEL MILLS, METAL TREATMENT FACILITIES, CHLORINE CELL BUILDINGS, COOLING TOWERS, WASTEWATER TREATMENT PLANTS AND A HOST OF OTHER INDUSTRIAL BUILDING OPERATIONS.

SINCE 1951, RESOLITE HAS PROVIDED ARCHITECTS, ENGINEERS, CONTRACTORS AND BUILDING OWNERS WITH THE VERY FINEST IN FIBERGLASS REINFORCED POLYMER (FRP) PANELS. THROUGHOUT ITS HISTORY, RESOLITE HAS BEEN AT THE FOREFRONT OF NEW PRODUCT DEVELOPMENT. RESOLITE WAS THE FIRST TO PROVIDE ENGINEERED FRP COMPOSITE PANEL SOLUTIONS TO THE INDUSTRY. RESOLITE DEVELOPED AND MANUFACTURED THE INDUSTRY'S FIRST FIRE RETARDANT FRP PANELS, AND INTRODUCED THE FIRST WALKABLE FRP PANEL (TRED-SAFE™) AND FACTORY MUTUAL APPROVED PANELS (RFM).

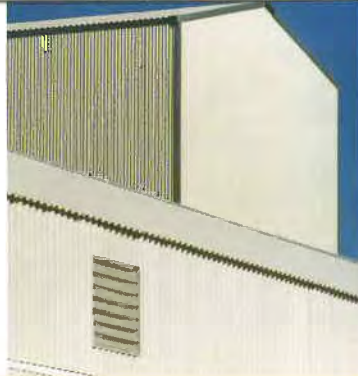
RESOLITE'S AUTOMATED CONTINUOUS PRODUCTION LINES; IN-PLANT LABORATORY; TESTING FACILITIES; ENGINEERS AND STAFF, COMBINE TO OFFER CUSTOMERS UNEQUALED ASSISTANCE IN MEETING THEIR CORROSION AND WEATHERING CHALLENGES.



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Tred-Safe

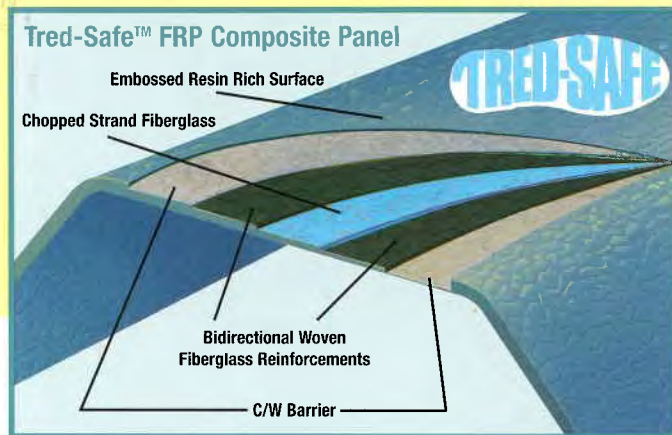
TRED-SAFE IS A HIGH-STRENGTH,
CORROSION RESISTANT, FIRE-RATED,
FIBERGLASS REINFORCED POLYMER
(FRP) ROOF PANEL PRODUCED
WITH RESILIENT POLYESTER RESIN
SPECIFICALLY DEVELOPED TO BE
SAFE AND WALKABLE*.

Introduced in the early 1980's, Tred-Safe roof panels have gained wide acceptance by architects, engineers, contractors and plant personnel - especially for applications where a **truly walkable** translucent or opaque FRP panel is required.

Because you can walk on them, Tred-Safe panels have the proven benefit of safely supporting concentrated loads of normal foot traffic. In addition, the owner has the assurance that their personnel and maintenance crews can access the roof safely. Tred-Safe is also ideal as a siding panel where long spans are required or high impact resistance is needed.

Tred-Safe incorporates the same isophthalic polyester resin as Resolite's high performance FS25A and CRFS25A products. The resin is intermixed with a five-layer combination of reinforcement including bi-directional continuous strand woven and chopped strand fiberglass. Unlike straight "layered" glass, continuous strand woven reinforcing provides the best resistance to fastener pullover, which is the panel failure mode in high wind conditions.

Tred-Safe panels are available in two standard profiles- 7.2 x 1.5" ribbed configuration and 4.2 x 1-1/16" corrugated. The 4.2 corrugated profile may be used with or to replace corrugated cement panels, since both panels have identical configurations.



*A *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. The optimum FRP walkable panel is one having layers of bidirectional woven fiberglass as the main structural reinforcement. Please note that beyond the actual material capabilities, standard construction safety measures must be observed and are the responsibility of the owner. Maximum walkable spans should be limited to 7'6". Also note that simple span conditions are not recommended for foot traffic. Planks or ladders should be used for these conditions.

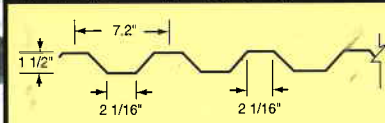
FIBERGLASS REINFORCED POLYMER PANELS



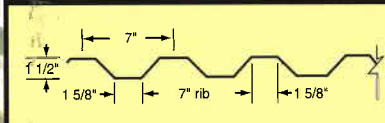
DIMENSIONAL DATA

PANEL PROFILES Configuration (in.)

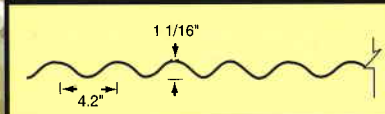
7.2 x 1.5 (39 1/4" finish width-36" cov.)



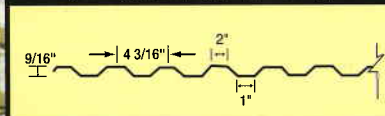
7 x 1.5 (38" finish width-35" cov.)



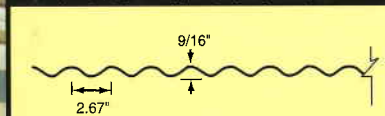
4.2 x 1 1/16 (42" finish width-37.8" cov.)



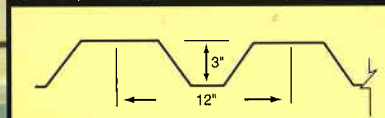
4 3/16 x 9/16 (45 1/4" finish width-42 1/4" cov.)



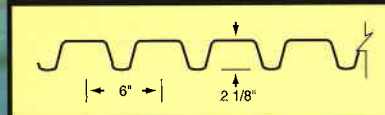
2 1/2 x 1/2 (52 5/8" finish width-48" cov.)



12 x 3 (38 1/2" finish width-36" cov.)



Tred-Safe Deck 6 x 2 1/8 (31 3/8" finish width-30" cov.)



Profiles are shown for reference only. Other profiles and coverages are available. Consult Resolite TD - 121 for details.

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'40' Series Panel

The Resolite '40' Series CRFS25A (Opaque) and FS25A (Translucent) are Resolite's high-strength wall and roof panels. They are available in a wide variety of profiles and types ranging from 840 (nom. 8 oz./sq.ft.) through 1440 (nom. 14 oz./sq.ft.).

Resolite '40' series panels incorporate the optimum 60% resin/40% glass matrix to provide the best corrosion, weathering and structural properties available for fiberglass products. The high quality isophthalic polyester resin system and bi-directional, continuous strand woven and chopped strand glass reinforcing produce an ideal balance for superior composite materials. In addition, C/W (Corrosion/Weathering) Barrier is standard on all '40' Series panels to enhance panel performance over the life of the product. These panels come with the Underwriters Laboratories' Flame Spread Rating of 25.



Underwriters
Laboratories Inc.



'30' Series Panel

Resolite produces translucent FRP composite panels for applications where light transmission is a design consideration. The '30' series panels offer soft, diffused light, and are available in a variety of colors and light transmission percentages.

'30' Series CRFS25A (Opaque) and FS25A (Translucent) panels are available in 830 (nom. 8 oz./sq.ft.) through 1230 (nom. 12 oz./sq.ft.). These panels incorporate approximately 30% chopped glass reinforcement with an embossed exterior finish, and are available in all standard and many special roofing and siding configurations, including flat sheets.



Factory Mutual Approved Panels

Resolite RFM panels were designed to provide a cladding that would carry a Factory Mutual fire-rated approval for walls, ceilings, and roof applications without sprinkler protection. They have passed both the FM 25-foot and 50-foot Corner Tests, using 6'0" spans to simulate actual construction conditions. RFM panels have also achieved an ASTM E 108 Class B rating.

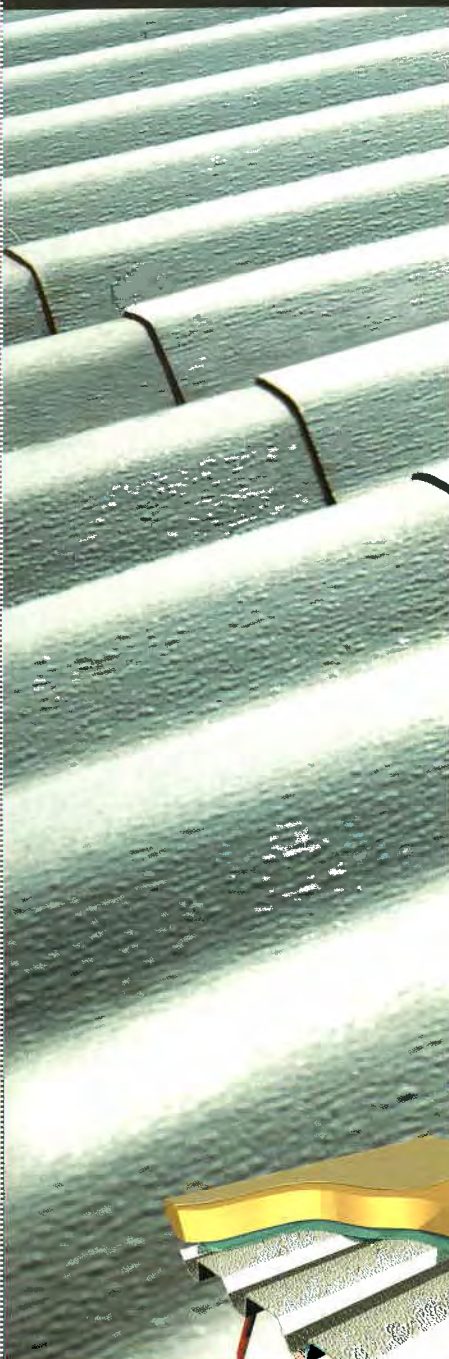
RFM panels are produced with an isophthalic resin system that provides maximum corrosion resistance and weathering characteristics. They are also available in 7.2" x 1.5" rib, 7.0" x 1.5" rib and 4.2 x 1-1/16" corrugated. Standard colors are Stone White, Gray and Beige.

Resolite has also achieved Factory Mutual I-90 wind uplift classification for all RFM panel profiles.

Resolite
RFM Panel
**Factory
Mutual
System**
Approved

Approved as plastic building panels Class 1 Fire-Rated Subject to the conditions of approval as Wall or Roof/Ceiling panel when installed as described in the current edition of the FMRC approval guide.

FIBERGLASS REINFORCED POLYMER PANELS



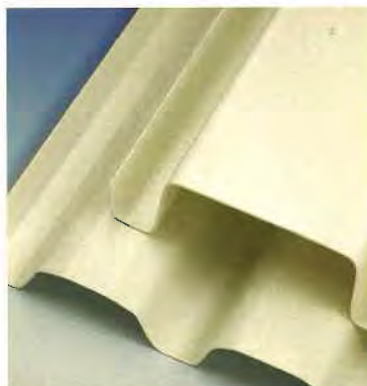
FRP Deck Panels

AFTER 50 YEARS OF EXPERIENCE PRODUCING FIBERGLASS REINFORCED POLYMER PANELS FOR THE CORROSION AND INDUSTRIAL MARKETS, RESOLITE IS NOW DRAWING ON THAT KNOWLEDGE TO PROVIDE A DECK PRODUCT WITH A SPECIAL BLEND OF CORROSION AND MOISTURE RESISTANT VINYL ESTER RESIN AND FIBERGLASS REINFORCEMENT. RESOLITE TRED-SAFE DECK IS AN INDUSTRIAL CONSTRUCTION UNIT THAT INTEGRATES CORROSION RESISTANCE AND HIGH STRENGTH IN A LIGHTWEIGHT COMPOSITE.

Resolite Tred-Safe DECK is the smart choice for the highly corrosive environments found in pulp and paper mills, galvanizing plants, salt operations, metal processing and chemical plants. Tred-Safe DECK is the ideal replacement for old wood decks, spalling concrete channel slabs or other deteriorated systems. It can be used either as a support for a built-up or single ply roofing system, or as a form for poured reinforced concrete slabs.

The unique combination of fiberglass reinforcement built into Tred-Safe DECK provides an exceptionally strong unit. Building owners and installers can be assured that Tred-Safe DECK provides a safe working platform and can be used in many of the same applications as light gauge metal roof deck.

Resolite's Tred-Safe Deck is also available to meet Factory Mutual Approval requirements for Class 1 and Class I-90 windstorm classifications when used in insulated roof assemblies. This unique system does not require metallic fire barriers to meet full classification. For specific system requirements, contact a Resolite representative.



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Accessories

ResoFLO™ FRP Wall Louvers

Resolite's ResoFLO Series (Stationary Blade and Adjustable Blade) FRP Louvers provide excellent corrosion resistance for industrial and commercial air intake or exhaust applications. The center pivot adjustable blade louvers and stationary blade louvers are custom fabricated to fit any size opening. Individual pultruded louver blades are mounted in strong, minimum 6" deep, pultruded FRP channel frames. Mullion covers are provided for multi-unit installations.

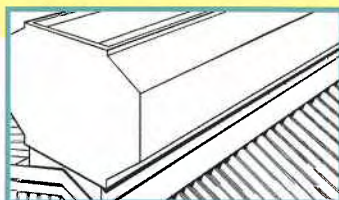
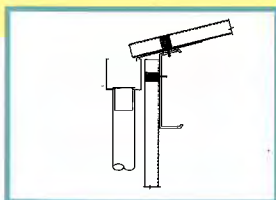
ResoFLO™ FRP Ridge Ventilators

Resolite's ResoFLO Ridge ventilation systems produce maximum gravity airflow under a wide range of adverse conditions. The high efficiency design of these ventilator systems offers substantial savings in ventilation costs. These ventilators provide excellent corrosion resistance for industrial and commercial exhaust applications.

Resolite® FRP Composite Gutters and Downspouts

For additional corrosion resistant protection for buildings employing FRP composite panels, Resolite offers FRP composite gutters and downspouts. Attractive and easy to install, these units are designed to perform under extreme conditions like high winds, thermal shock and static loads from snow and ice accumulation.

Note: Resolite ResoFLO FRP Wall Louvers, ResoFLO Ridge Ventilators, and Resolite FRP Gutter and Downspout Systems are available in three standard colors: Stone White, Gray and Beige.



This information contained herein is not intended to be used for design purposes. 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. Specific information required for the design and detailing of specific jobs is available upon request and should be obtained from your Resolite sales representative.

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Color Notice

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

Storage Recommendations

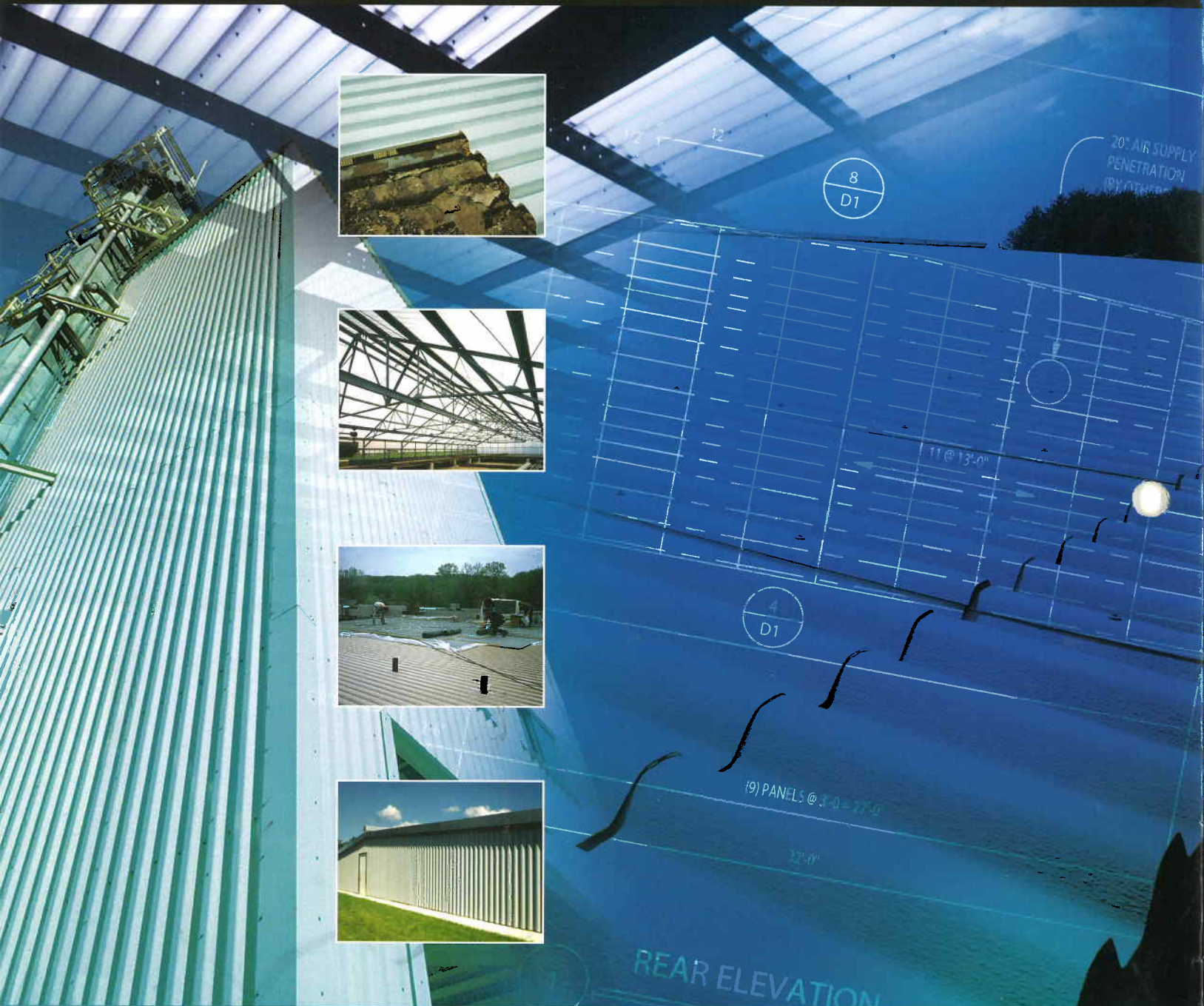
Prior to installation, Resolite panels should be stored indoors in an upright position. Never pile flat, as condensation may form between the panels which can result in permanent staining.

Statement of Policy

The information provided here 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 roof or wall system is predicated by proper design and erection of the substructure. Resolite will not assume any responsibility for the design, detailing, or erection of the substructure to which Resolite panels are attached.

FIBERGLASS REINFORCED POLYMER PANELS



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