



DOMER



DOMER.CO
DOMER VIVID TP
MULTI-SKINEED GRP PANELS

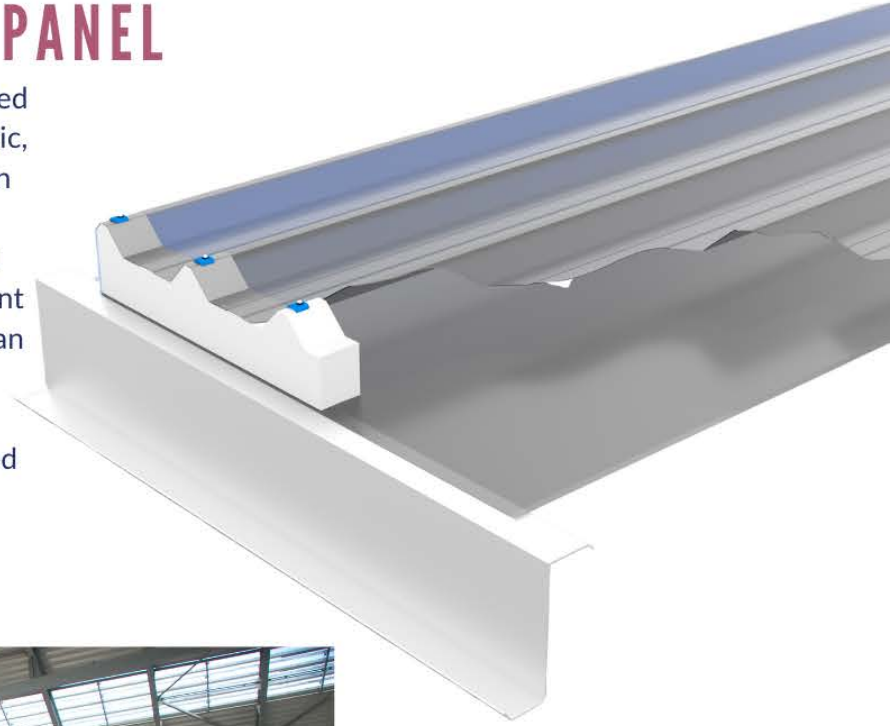


Domer Plastic Industries LLC

DOMER VIVID THERMAL PANEL

Domer Vivid Thermal Panel is a factory-assembled insulated skylight made of glass-reinforced plastic, providing high levels of natural light transmission and excellent thermal insulation, designed to match any composite roofing panel. The internal reinforcement and our engineered fiber alignment grant the possibility to use the panel in a long span due to its outstanding mechanical properties.

Domer Vivid Thermal Panel can be manufactured in double (Vivid DS) or triple skin (Vivid TS) to match any project requirements.



APPLICATIONS

- Rooflights
- Wall lights
- Sports centers
- Warehouses
- Green buildings
- Manufacturing Sheds

DOMER VIVID TP SPECIFICATIONS

Property	Method	Conditions	Units	Value
Water Absorption	ASTM D7590	24h@23 ± 1°C	%	0.25
Density	ASTM D-792		g/cm3	1.5
Mechanical Properties				
Tensile Strength	ASTM D638 -14	5 mm/min	Mpa	90
Elongation at break	ASTM D638 -14	5 mm/min	%	1-4
Flexural strength	ASTM D790 -10	0.8 mm/min	Mpa	180
Flexural modulus	ASTM D790 -10	0.8 mm/min	Mpa	7000
Thermal				
Thermal Conductivity	ASTM C518 -10		W/mK	0.04
Coefficient of Linear Thermal Expansion	ASTM E831 - 14		um/m°C	21.5

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DOMER VIVID TP PROPERTIES

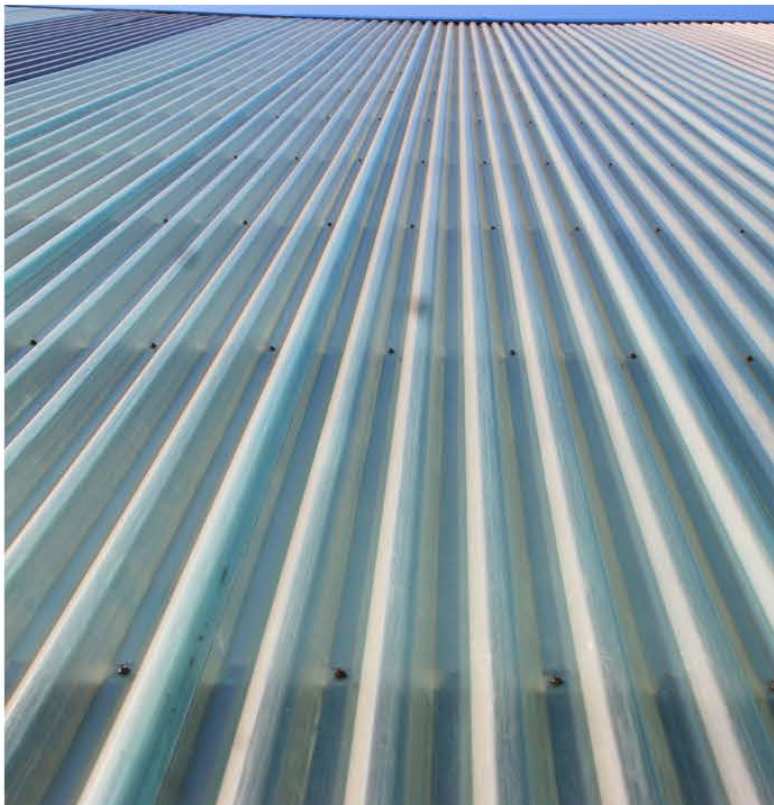
CORROSION RESISTANCE

Domer Vivid TP has superior resistance for chemical, wet and coastal environments as the FRP material is inclusive to high quality resin systems. Domer Vivid TP is suitable for most exterior applications and provides excellent protection against acids and continuous wet conditions.

Below you can find some of the chemical products which Domer Vivid can resist.

Chemical concentration	
Acetic Acid	5%
Chloric Acid	10%
Nitric Acid	10%
Carbon Sulfur	30%
Toluol	30%
Benzyl	30%
Sulfuric Acid	30%
Ethyl Alcohol	95%

(periodic washing is needed with sufficient water to insure long life of the GRP panel)



FIRE RATING

Domer Vivid DS/TS can achieve the following fire classifications:

- Domer Vivid DS/TS A passes class A in accordance to ASTM E84
- Domer Vivid DS/TS BS passes class 1 in accordance to BS 476-7

UV PROTECTION

Our corrugated GRP panels are co-extruded with the “UV Premium shield” layer which eliminates a minimum of 99% of harmful ultraviolet rays and protects the panel against discoloration, yellowness and makes them resistant to chemicals and pollutants. In addition to our standard UV protection surface layer, “UV Platinum Shield” can be supplied to prevent significant discoloration for at least 20 years .

**Performance proven by accelerated weathering test showing delta E less than 10 after 3000 hours exposure to QUV testing, comprising cycles of 4 hours of UVA340nm at 60oC and 4 hours condensation at 50oC according to ISO 4892 part 3.*

STRUCTURAL PROPERTIES

Domer Vivid has a special alignment of fibers with high glass content which guarantees low panel deflection, high yield, and tensile sheet strength & better weather tightness in comparison with other available FRP panels.

LIGHT TRANSMISSION

Vivid TP translucent panels provide an excellent light transmission that can reach up to 70%

THERMAL PERFORMANCE

Domer Vivid TP offer an outstanding thermal insulation values.

COLORS

Domer Vivid comes in many translucent colors: Translucent: Clear, Bluewish, greenish, yellowish...

**Colors can be customized according to requirements*



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OUR MOST COMMON PROFILES
