

There are 8 resin systems for its grating to accommodate different applications to ensure optimum utilization of grating.

RESIN TYPE	RESIN BASE	DESCRIPTION	CORROSION RESISTANCE	FLAME SPREAD RATING ASTM E84	MAXIMUM OPERATING TEMP	STOCK ITEM
Type MP-5	Phenolic	Low Smoke and Superior Fire Resistance	Very Good	Class 1, 5 or less	180°C	✘
Type VEFR-25	Vinyl Ester	Superior Corrosion Resistance and Fire Retardant	Excellent	Class 1, 25 or less	110°C	✔
Type VEFR-10	Vinyl Ester	Superior Corrosion Resistance and Enhanced Fire Retardant	Excellent	Class 1, 10 or less	110°C	✘
Type IFR-25	Isophthalic Polyester	Industrial Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 25 or less	105°C	✔
Type IFR-10	Isophthalic Polyester	Industrial Grade Corrosion Resistance and Extra Fire Retardant	Very Good	Class 1, 10 or less	105°C	✘
Type FG-30	Isophthalic Polyester	Food Grade Corrosion Resistance and Fire Retardant	Very Good	Class 1, 30 or less	105°C	✘
Type CFR-25	Orthophthalic Polyester	Moderate Corrosion Resistance and Fire Retardant	Moderate	Class 1, 25 or less	100°C	✘
Type O-AN	Orthophthalic Polyester	Moderate Corrosion Resistance	Moderate	No	100°C	✘

Type MP-5 is a *phenolic resin* where fire resistance, low smoke, and low toxic fumes are critical. Tested in ASTM E-84, Type MP-5 resin has a flame spread rating of 5 and smoke density rating of 5. Type-5 molded phenolic grating is typically used in confined spaces, subways, offshore and other applications where fire resistance and low smoke generation is necessary.

Type VEFR-25 is a *premium vinyl ester resin* with a flame spread rating of 25 or less. Type VEFR-25 resin provides the most chemical resistance in the industry, designed to withstand the harshest chemical environments over a broad range of acids and caustics, it is primarily used in petrochemical, waste water, mining and plating applications where the grating is subject to frequent and direct contact with harsh chemicals.

Type VEFR-10 is the same *premium vinyl ester resin* but with an enhanced flame spread rating of 10 or less for those applications requiring more flame resistance, such as an offshore platform.

Type IFR-25 is a *high quality isophthalic polyester resin* with a flame spread rating of 25 or less. Type IFR-25 provides an intermediate level of chemical resistance and is the correct resin choice for grating subjected to splash and spill contact with harsh chemicals and is a very good general-purpose resin at a reduced cost compared to the premium vinyl ester resin.

Type IFR-10 is the same *high quality isophthalic polyester resin* but with an enhanced flame spread rating of 10.

Type FG-30 is manufactured using a *premium food grade polyester resin* containing no harmful ingredients and is certified by the resin manufacturer. Each panel is post cured and detergent washed prior to shipment. This grating possesses a flame spread rating of 30.

Type CFR-25 is an *orthophthalic polyester resin* with a flame spread rating of 25 or less providing moderate chemical resistance. This grating is perfect for use in water/wastewater applications, light industrial applications, and in the wave zone areas of offshore platforms where the environment is moderate. Although Type CFR-25 is the least chemical resistant resin, it still offers superior performance to traditional flooring products such as steel, aluminum and wood, and is the most economical resin available.

Type O-AN is the same *orthophthalic polyester resin* as type CFR-25 but non-fire retardant.