

FIBERGLASS CABLE TRAYS

Cable trays are made of a special polymeric material which does not sustain combustion.

Due to the unique properties of this material usage of cable support system ensures minimum maintenance costs.

As a result of high level of protection from aggressive environments the performance parameters of polymeric cable trays exceed those of traditional trays made of zinc plated and stainless steel.



Advantages of composite cable tray system:

- **No need to earth the route** – composite material is a dielectric and does not conduct electricity.
- **No corrosion** – unlike traditional tray materials (metals, zinc plated metals) the composite material is not susceptible to corrosion and to damage from increased humidity (e.g. atmosphere precipitation, condensation, rich moist air).
- **Resistance to aggressive environments** – the material of all cable tray system elements is resistant to damage from aggressive substances in air and does not react with concentrated solutions of aggressive chemicals.
- **Light weight** – lower by 70% as compared to identical systems made of metals.
- **All-purpose** – suitable for operation at consumer goods industry and heavy industry facilities.
- **Affordable price** – due to low costs of transportation, storage, installation and service and due to the long service life of cable trays.

Technical information:

Straight section length

For trays with wall height 60mm (2.36 in), straight section length: 3000mm (118.11 in), 6000mm (236.22 in)

For trays with wall height 80mm (3.15 in), straight section length: 3000mm (118.11 in), 6000mm (236.22 in)

For trays with wall height 100mm (3.94 in), straight section length: 3000mm (118.11 in), 6000mm (236.22 in)

For trays with wall height 150mm (5.91 in), straight section length: 3000mm (118.11 in), 6000mm (236.22 in)

For trays with wall height 200mm (7.87 in), straight section length: 3000mm (118.11 in), 6000mm (236.22 in)

Bolted joint diameter:

Joining sections and shaped elements together: M6;

Securing to supporting structures: M6.

Chemical stability

Information:

PE - Polyester Resin is an alternative to traditional hot dipped galvanized products.

VE - Vinyl Ester Resin is an alternative to traditional stainless steel products.

 - positively

 - neutrally

 - negatively

	ISO		VE D411			ISO		VE D411	
	20°C (68°F)	50°C (122°F)	20°C (68°F)	50°C (122°F)		20°C (68°F)	50°C (122°F)	20°C (68°F)	50°C (122°F)
AgNO ₃					CH ₃ OH, 100%				
AlCl ₃					CO ₂				
Al(NO ₃) ₃					CuCl, CuCl ₂				
Al ₂ (SO ₄) ₃					CuSO ₄				
BaCl ₂					CS ₂ , 100%				
BaCO ₃					FeCl ₂				
Ba(OH) ₂					Fe(NO ₃) ₃				
Ba(NO ₃) ₂					FeSO ₄				
BaS					Hbr, 10%				
BaSO ₄					HCN, 10%				
CaCl ₂					HCl, 5%				
Ca(ClO) ₂ , 15%					HCl, 20%				
Ca(OH) ₂ , 20%					H ₂ CrO ₄ , 5%				
Ca(NO ₃) ₂					H ₂ CrO ₄ , 10%				
CCl ₄ , 100%					HNO ₃ , 5%				
CH ₃ -COOH, 5%					H ₂ O ₂ , 3%				
CH ₃ -COOH, 50%					H ₂ O+Cl ₂				
CH ₃ -COOH, 75%					H ₃ PO ₄ , 10%				
C ₄ H ₅ O MEK					H ₂ SO ₄ , 10%				
CHOOH, 10%					H ₂ SO ₄ , 30%				
C ₂ H ₅ OH, 10%					KCl				

Vinyl ether resin has higher resistance to alkali and acids than polyester resin and can be used in highly aggressive environment.

	ISO		VE D411			ISO		VE D411	
	20°C (68°F)	50°C (122°F)	20°C (68°F)	50°C (122°F)		20°C (68°F)	50°C (122°F)	20°C (68°F)	50°C (122°F)
KOH, 5%	●	●	●	●	NaOH, 10%	●	●	●	●
KOH, 10%	●	●	●	●	NaOH, 25%	●	●	●	●
KOH, 5%	●	●	●	●	NaOCl, 20%	●	●	●	●
KOH, 50%	●	●	●	●	Na ₂ SO ₄	●	●	●	●
K ₂ CO ₃ , 10%	●	●	●	●	Na ₂ SO ₃	●	●	●	●
KNO ₃	●	●	●	●	Na ₂ S ₂ O ₅	●	●	●	●
KMnO ₄	●	●	●	●	NH ₃ , 1%	●	●	●	●
K ₂ SO ₄	●	●	●	●	NH ₄ Br	●	●	●	●
MgCl ₂	●	●	●	●	NH ₄ Cl	●	●	●	●
MgCO ₃	●	●	●	●	NH ₄ F	●	●	●	●
Mg(NO ₃) ₂	●	●	●	●	(NH ₄) ₂ CO ₃	●	●	●	●
MgSO ₄	●	●	●	●	NH ₄ NO ₃	●	●	●	●
NaBr	●	●	●	●	(NH ₄) ₃ PO ₄	●	●	●	●
NaCl	●	●	●	●	(NH ₄) ₂ SO ₄	●	●	●	●
NaCN	●	●	●	●	NiCl ₂	●	●	●	●
Na ₂ CO ₃ , 10%	●	●	●	●	Ni(NO ₃) ₂	●	●	●	●
NaHCO ₃ , 10%	●	●	●	●	NiSO ₄	●	●	●	●
NaHSO ₃	●	●	●	●	ZnCl ₂	●	●	●	●
NaNO ₃	●	●	●	●	ZnSO ₄	●	●	●	●
NaNO ₂	●	●	●	●					
NaOH, 5%	●	●	●	●					