## **FIBERTRAV EFV**

NEMA FG1 REV.22/09/2017









Models: Height (Side Rail): 3S (76 mm), 4S (101 mm), 6L, 6S y 6R (152 mm). Width: 6" (150 mm), 9" (225 mm), 12" (300), 18" (450), 24" (600), 30" (750), 36" (900 mm) Length: 3 m ó 6 m. Distance between rungs: 6" (150 mm), 9" (230 mm), 12" (300 mm). Material: Reinforced polyester Fiberglass (PRFV) Ladder Characteristics: - Non metallic System - Temperature Range: -50°C y 105°C - Without electrical continuity - Electrical insulating component - High level of protection against corrosive or polluting substances - Self-extinguishing and non-flame propagating component - Reaction to fire, smoke opacity and toxicity M2F1 according to NF 16101 - Flame Spread and Smoke Development Class1 according to ASTM E84 - UL-94-V0 Class - Halogen Free - Comply with ROHS2, 2011/65/EU - Comply with REACH 18/12/2016 - Resistant to UV radiation. Excellent behaviour in outdoor installation. - High Load-Resistance/Weight ratio - Impact Strength: 20J.



- To assembly two cable ladders two union joints are needed with 4 B3 Sets for each union.
- It is recommended installing the union joints between L/4 to L/5 of the distance between supports.
- Tray installation for electrical systems should NOT run under other types of canalisations such as water, vapour or gas canalisations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays placed on supports shall have to keep a gap of 20 mm from the wall to allow a correct ventilation of the cables.

## Accessories:

45° and 90° horizontal bends, 45° and 90° vertical inside bends, 45° and 90° vertical outside bends, cross derivations, TE derivations, union joint, vertical adjustable joint, horizontal adjustable joint, hold down clamp, cover and cover clamp.

Available radios: Standard 12" (300 mm). Under request 24" (600 mm) and 36" (900 mm).



## Safe Working Load (SWL) / Load-Span Class Designations

Values obtained according to NEMA FG1 "Load to Destruction Test":

	Span (ft)				
	8	10	12	16	20
	Span (m)				
	2,44	3,05	3,66	4,88	6,10
	SWL(kg/m)				
EFV 3S	169	108	75	-	-
EFV 4S	336	215	149	84	-
EFV 6L	-	300	208	117	75
EFV 6S	-	-	311	175	112
EFV 6R	-	-	414	232	149

## NEMA FG1 LOAD/SPAN CLASS:

Clasification					
EFV 3S	8C-12A				
EFV 4S	12C-16A				
EFV 6L	20A				
EFV 6S	20B				
EFV 6R	20C				

\* Rungs and ladders support a 90 kg Point Load without collapse

NOTE: 1,5 Safety factor considered.

\*\*\* CTA for 25 °C. Reduction of charge depending on temperature:

· 50 °C = 18%

 $\cdot 65 \ ^{\circ}C = 32 \ \%$ 

 $\cdot$  80 °C = 40 %

· 95 °C = 48 %

· 105 ℃ = 53 %

