

BASORTRAV - IR

NEMA VE1 / CSA 22.2  
REV.27/07/2017



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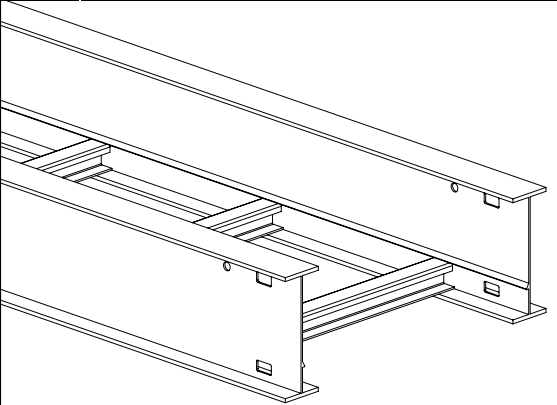


Certificado Nº SGI 3198065/11



Certificado Nº SGI 3198065/12

IR



Models (BxH): 6"x4", 9"x4", 12"x4", 18"x4", 24"x4", 30"x4", 36"x4", 6"x5", 9"x5", 12"x5", 18"x5", 24"x5", 30"x5", 36"x5", 9"x6", 12"x6", 18"x6", 24"x6", 30"x6", 36"x6".

Distance between rungs: 6", 9", 12".

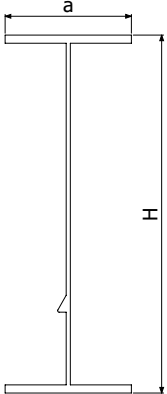
Lenght: 6 m.

Material: Aluminium

Characteristics of the cable ladder:

- Metallic
- Nom-flame propagating
- With electrical continuity
- Electrically continous system
- Minimum temperature of -50 °C
- Maximum temperature of 150 °C
- Impact Resistance: 20J

CHARACTERISTICS

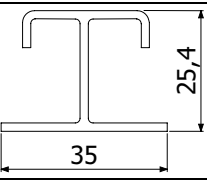


Model	a inch (mm)	H inch (mm)	Area (cm2) *	Moment of Inertia Ix (cm4) *	Section Modulus Wx (cm3) *
IR4"	1.75" (44,45)	4,19" (106,5)	13,18 **	257,23	96,61
IR5"	1.75" (44,45)	5" (127)	11,87 **	325,26	102,44
IR6"	1.75" (44,45)	6,18" (157)	14,66 **	586,88	149,52

\* Values calculated considering both side rails of the cable ladder

\*\*In countries where it is applicable, according to NEC code, this cross section would allow the use of the tray as ground conductor.

For more information consute NEC Article 392.60 of the code.

Model
TR 1"S

Area (cm²)
Moment of Inertia Ix (cm⁴)
Section Modulus Wx (cm³)

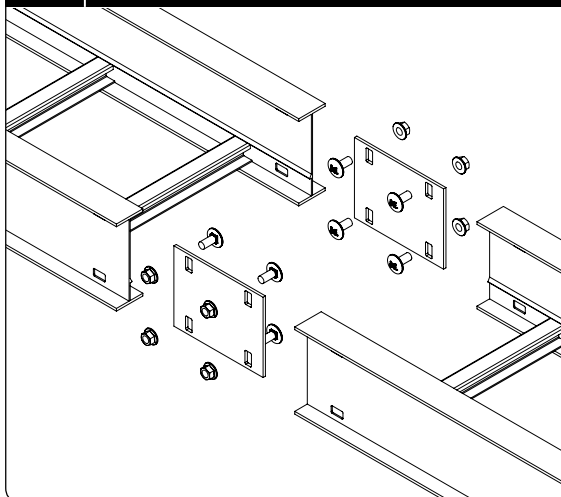
	1,67
	1,71
	1,32

## SAFE WORKING LOAD

For NEMA load values, it is considered a safety factor in the safe working load of 1.5 and applying a further point load 100 kg applied in the midspan without the tray reaches the collapse.

		3,7 m / 12 ft		4,9 m / 16 ft		6,0 m / 20 ft	
		kg/m	Class	kg/m	Class	kg/m	Class
IR4"	NEMA	199	12C+	174	16C	112	20B
	CSA		-		-		E
IR5"	NEMA	199	12C+	174	16C	112	20B
	CSA		-		-		E
IR6"	NEMA	-	-	233	16C+	150	20C
	CSA		-		-		E

## MOUNTING INTRUCTIONS



- For the assembly two union joints of the corresponding height are needed. Each union requires four B3 Sets. The hardware is delivered in A2 stainless steel.
- The unions have to be mounted in the outside of the cable ladder, and the hardware with the rounded head in the inside, leaving the nut in the outside to avoid any damage to the cables.
- The tray installation for an electrical system should NOT run under other types of canalizations such as water, vapour or gas.
- To guarantee a good ventilation we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Trays which are placed on supports shall have to keep a gap of 20 mm from the wall to allow for a correct ventilation of the cables.

### Accessories:

The family has a wide range of accessories: Horizontal bend, vertical inside/outside bends, cross, TE derivation, reductions, union joint, articulated joint, horizontal joint and lateral joint. Available in three radii: 12" (~300 mm) 24" (~600 mm) y 36" (~900 mm).