



**ARC INSULATION AND INSULATORS PVT LTD.**  
VILL-RAMDEVPUR, P.O.-BAWALI, DIST-SOUTH 24 PARGANAS, PIN-743384, W.B.

**Internal REPORT**

**ISSUED TO:** Directorate of Purchase & Stores Madras Regional Purchase Unit, DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA **DATE OF ISSUE: 24.06.2021**

**COMPONENT/ PRODUCT:** FRP Cable Tray

**P.O No:** DPS/MRPU/1/3/1560/PO/1226

S.NO.	DESCRIPTION	PARAMETER	SPECIFIED	OBSERVED			REMARKS
1	Perforated FRP Cable Tray of Dimensions Height-25mm; Width- 50mm; Thickness-3mm	LENGTH (MM)	3000	3001	3000	3002	Satisfactory
		WIDTH (MM)	50	50	50	50	Satisfactory
		HEIGHT (MM)	25	25	25	25	Satisfactory
		THICKNESS (MM)	3	3.1	3.1	3	Satisfactory
2	Perforated FRP Cable Tray of Dimensions Height-30mm; Width- 100mm; Thickness-3mm	LENGTH (MM)	3000	3001	3001	3002	Satisfactory
		WIDTH (MM)	100	100	100	100	Satisfactory
		HEIGHT (MM)	30	30	30	30	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3	Satisfactory
3	Perforated FRP Cable Tray of Dimensions Height-50mm; Width- 100mm; Thickness-3mm	LENGTH (MM)	3000	3001	3001	3002	Satisfactory
		WIDTH (MM)	100	100	100	100	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3	Satisfactory
4	Perforated FRP Cable Tray of Dimensions Height-50mm; Width- 150mm; Thickness-3mm	LENGTH (MM)	3000	3001	3001	3002	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3	Satisfactory
5	Perforated FRP Cable Tray of Dimensions Height-50mm; Width- 300mm; Thickness-4mm	LENGTH (MM)	3000	3001	3001	3002	Satisfactory
		WIDTH (MM)	300	300	300	300	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	4	5	5.1	5	Satisfactory
6	Perforated FRP Cable Tray Accessories: 50 mm horizontal bend, 45 degree, radius 600 mm	DEGREE (o)	45	45	45	45	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	50	50	50	50	Satisfactory
		HEIGHT (MM)	25	25	25	25	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3	Satisfactory
7	Perforated FRP Cable Tray Accessories: 150 mm horizontal bend, 90 degree, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.5	4	3.5	Satisfactory
8	Perforated FRP Cable Tray Accessories: 150 mm vertical bend, 45 degree outside bend, radius 600 mm	DEGREE (o)	45	45	45	45	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.3	3.1	Satisfactory
9	Perforated FRP Cable Tray Accessories: 150 mm vertical bend, 45 degree inside bend, radius 600 mm	DEGREE (o)	45	45	45	45	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.1	Satisfactory
10	Perforated FRP Cable Tray Accessories: 150 mm vertical bend, 90 degree outside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.5	3.6	4	Satisfactory
11	Perforated FRP Cable Tray Accessories: 150 mm vertical bend, 90 degree inside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.5	3.5	3.2	Satisfactory



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S.NO.	DESCRIPTION	PARAMETER	SPECIFIED	OBSERVED			REMARKS
12	Perforated FRP Cable Tray Accessories: 150 mm horizontal equal tee, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.2	Satisfactory
13	Perforated FRP Cable Tray Accessories: 150 mm horizontal cross tee, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.2	3.3	Satisfactory
14	Ladder Type FRP Cable Tray of Dimensions Height- 50 mm; Width- 100mm; Thickness-3mm	LENGTH (MM)	3000	3002	3001	3003	Satisfactory
		WIDTH (MM)	50	50	50	50	Satisfactory
		HEIGHT (MM)	100	150	150	150	Satisfactory
		THICKNESS (MM)	3	3.2	3.3	3.2	Satisfactory
15	Ladder Type FRP Cable Tray of Dimensions Height- 50 mm; Width- 150mm; Thickness-3mm	LENGTH (MM)	3000	3001	3002	3002	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.2	3.1	Satisfactory
16	Ladder Type FRP Cable Tray of Dimensions Height- 50 mm; Width-300mm; Thickness-3mm	LENGTH (MM)	3000	3002	3002	3001	Satisfactory
		WIDTH (MM)	300	300	300	300	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.3	3.1	3.1	Satisfactory
17	Ladder Type FRP Cable Tray Accessories: 150 mm horizontal bend, 90 degree, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.2	3.1	Satisfactory
18	Ladder Type FRP Cable Tray Accessories: 150 mm vertical bend, 45 degree outside bend, radius 600 mm	DEGREE (o)	45	45	45	45	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.1	Satisfactory
19	Ladder Type FRP Cable Tray Accessories: 150 mm vertical bend, 45 degree inside bend, radius 600 mm	DEGREE (o)	45	45	45	45	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.1	Satisfactory
20	Ladder Type FRP Cable Tray Accessories: 150 mm vertical bend, 90 degree outside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.1	Satisfactory
21	Ladder Type FRP Cable Tray Accessories: 150 mm vertical bend, 90 degree inside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	150	150	150	150	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.2	3.1	Satisfactory
22	Ladder Type FRP Cable Tray Accessories: 300 mm horizontal bend, 90 degree, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	300	300	300	300	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.1	3.2	3.2	Satisfactory



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23	Ladder Type FRP Cable Tray Accessories: 300 mm vertical bend, 90 degree outside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	300	300	300	300	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.2	3.1	Satisfactory
24	Ladder Type FRP Cable Tray Accessories: 300 mm vertical bend, 90 degree inside bend, radius 600 mm	DEGREE (o)	90	90	90	90	Satisfactory
		RADIUS (MM)	600	600	600	600	Satisfactory
		WIDTH (MM)	300	300	300	300	Satisfactory
		HEIGHT (MM)	50	50	50	50	Satisfactory
		THICKNESS (MM)	3	3.2	3.1	3.2	Satisfactory

**MECHANICAL & PHYSICAL TESTING**

S.NO.	PARAMETER	SPECIFIED	OBSERVED	REMARKS
1	TENSILE STRENGTH	Min 207 Mpa	315 Mpa	Satisfactory
2	HV/IR	8KV/MM	Passed	Satisfactory
3	FLEXURAL TEST	Min 207 Mpa	329 Mpa	Satisfactory
4	COMPRESSIVE TEST	Min 207 Mpa	304 Mpa	Satisfactory
5	DI ELECTRIC STRENGTH	30KV/25MM	Passed	Satisfactory
6	FLAMIBILITY TEST	25 mm	Passed	Satisfactory
7	FLAME SPREAD	0-15	31.75	Satisfactory
8	UV EXPOSURE	IS 14887	Passed	Satisfactory
9	IZOD IMPACT TEST	100KJ/M <sup>2</sup>	149	Satisfactory

**Remarks (If any): All the above parameter confirms the product quality & Tested found OK.**



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