



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

**QC REPORT**

**ISSUED TO:** TRADE PALACE **DATE OF ISSUE:** 07.10.2022

**COMPONENT/ PRODUCT:** FRP TRANSFORMER FENCING **REPORT NO.:** ARC/QC/22-23/JOB-66/81

**INV.NO.:** 107/22-23

S.NO.	PARAMETER	SPECIFIED	OBSERVED			REMARKS
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**Frame Dimensions**

1	LENGTH	1000 mm	1001	1002	1001	Satisfactory
	WIDTH	1800 mm	1801	1802	1801	Satisfactory
	HEIGHT	50 mm	50	50	50	Satisfactory
	THICKNESS	5 mm	5.1	5.2	5.1	Satisfactory

**Gate Dimensions**

1	LENGTH	1000 mm	1001	1002	1001	Satisfactory
	WIDTH	1800 mm	1801	1802	1801	Satisfactory
	HEIGHT	50 mm	50	50	50	Satisfactory
	THICKNESS	5 mm	5.1	5.2	5.1	Satisfactory

**Post Dimensions**

1	LENGTH	2100 mm	2101	2100	2101	Satisfactory
	WIDTH	50 mm	50	50	50	Satisfactory
	HEIGHT	50 mm	50	50	50	Satisfactory
	THICKNESS	5 mm	5.1	5.2	5.1	Satisfactory

**MECHANICAL & PHYSICAL TESTING**

S.NO.	PARAMETER	SPECIFIED	OBSERVED			REMARKS
1	VISUAL	NO SURFACE CRACK	NO SURFACE CRACK FOUND			Satisfactory
2	TENSILE STRENGTH	Min 207 Mpa	315 Mpa			Satisfactory
3	Barcol Hardness	Min 35 BHU	42 BHU			Satisfactory
4	Glass Content	Min 45%	61.15			Satisfactory
5	Water Absorption	0.60%	0.23			Satisfactory
6	Flammability	Low	Low			Satisfactory

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

ARC Insulation & Insulators Pvt. Ltd.



## ARC INSULATIONS AND INSULATORS PVT LTD.



Client	TRADE PALACE
Title	FRP FENCING
P.O.No.	EMAIL
INV. NO.	157/21-22
Date:	15.02.2022

### QC Report

#### DIMENSIONAL REPORT

Sr.No.	Description	Specification	Unit	Standard	Observation
1	FRAME HEIGHT	1800	mm	Drawing	1801
2	FRAME WIDTH	1000	mm	Drawing	1002
3	GATE 1 HEIGHT	1800	mm	Drawing	1801
4	GATE 2 HEIGHT	1800	mm	Drawing	1802
3	GATE 1 WIDTH	2000	mm	Drawing	2001
4	GATE 2 WIDTH	1000	mm	Drawing	1002
5	POST LENGTH	2100	mm	Drawing	2101

#### MECHANICAL PROPERTIES

Sr.No.	Description	Specification	Unit	Standard	Observation
1	Tensile Strength	Min 207	Mpa	ASTM D638	348
2	Barcol Hardness	Min 35	BHU	ASTM D2583	41
3	Specific Gravity	1.75 - 1.9	g/cm <sup>3</sup>	ASTM D792	1.8
4	Glass Content	Min 65	%	BS 5734	67.25
5	Water Absorption	Max 0.5	Max%	ASTM D570	0.2
6	Insulation Resistance	500	Mega $\Omega$	ASTM E 780	2500
7	Di- electric Strength	Min 8	kV/mm	ASTM D149	8.3
8	Glow Wire	No Glow @ 600 Deg C	-	IEC 60335	Pass

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

For, ARC Insulation & Insulators Pvt. Ltd.



## ARC INSULATIONS AND INSULATORS PVT LTD.



Client	ROYAL ENTERPRISES
Title	FRP FENCING
P.O.No.	RE/PO/2020-21/FRP/004
INV. NO.	024/20-21 & 025/20-21
Date:	16.07.2020

### QC Report

#### FRP FENCING SAMPLE

Sr.No.	Description	Specification	Unit	Standard	Observation
1	Tensile Strength	Min 207	Mpa	ASTM D638	348
2	Barcol Hardness	Min 35	BHU	ASTM D2583	41
3	Specific Gravity	1.75 - 1.9	g/cm <sup>3</sup>	ASTM D792	1.8
4	Glass Content	Min 65	%	BS 5734	67.25
5	Water Absorption	Max 0.5	Max%	ASTM D570	0.2
6	Insulation Resistance	500	Mega $\Omega$	ASTM E 780	2500
7	Di- electric Strength	Min 8	kV/mm	ASTM D149	8.3
8	Glow Wire	No Glow @ 600 Deg C	-	IEC 60335	Pass

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



For, ARC Insulation & Insulators Pvt. Ltd.

**ARC INSULATIONS AND INSULATORS PVT LTD.**

Client	ROYAL ENTERPRISES
Title	FRP FENCING
P.O.No.	RE/PO/2020-21/FRP/004
INV. NO.	024/20-21 & 025/20-21
Date:	16.07.2020

**Dimensional Report**

Sr.No.	Description	Parameter	Specification	Unit	Observation	Remarks
1	Post	Size	Sq. 75 x 75	-	Sq. 75 x 75	Satisfactory
		Length	1200	mm	1201	Satisfactory
		Thickness	5	mm	5.2	Satisfactory
2	Top Rail	Size	Sq. 50 x 50	-	Sq. 50 x 50	Satisfactory
		Length	2500	mm	2502	Satisfactory
		Thickness	3.2	mm	3.2	Satisfactory
3	Bottom Rail	Size	Sq. 50 x 50	-	Sq. 50 x 50	Satisfactory
		Length	2500	mm	2502	Satisfactory
		Thickness	3.2	mm	3.2	Satisfactory
4	Vertical tube	Size	Round Tube 25 - 32	-	Round Tube 25 - 32	Satisfactory
		Length	1200	mm	1201	Satisfactory
		Thickness	3.5	mm	3.5	Satisfactory
5	Fencing	Length	2500	mm	2501	Satisfactory
		Height	1200	mm	1202	Satisfactory

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



For, ARC Insulation & Insulators Pvt. Ltd.