



BUREAU
VERITAS

Report No. : : IGI/FST 192474 /22-23/14-02

Date : 27.06.2022

INSPECTION REPORT

ISSUED BY: INSPECTORATE GRIFFITH INDIA (P) LTD

Name of the Client : R. B. Agarwalla & Co. 2/6 Sarat Bose Road, Kolkata - 700020

W.O. No. of the Client on IGI : Email dated: 06.10.2020

Name of the Manufacturer : R. B. Agarwalla & Co, NH-6 Ankurhati, Domjur, Howrah.

Inspections call letter ref. no & dated. : Mail dated 18.06.2022

Place of Inspection : R. B. Agarwalla & Co., NH-6, Ankurhati, Domjur, Howrah.

Scope of Inspection : Dimensional Inspection as per Drawing, Witness of Load Test, Tilt Test, Vertical pull-Out test of samples provided by manufacturer at the time of inspection as per mail dated 18.06.2022.

Item Description : **CI 600KKF 550/50 FRAME WITH CW LOGO (R4023F)**

Quantity of the checked item : Dimension - 03 Nos (Frame), Load test – 02 sets and Tilt-test & Vertical Pull-test – 01 set each. Samples were provided by the manufacture at the time of inspection.

Date of Inspection : 20.06.2022 & 21.06.2022.

FIR No & Dated : RBA /192474/14 dated- 20.06.2022 & 21.06.2022

Casting Date (As cast on material) :

Item	Sample 1	Sample 2	Sample 3
Frame	04.06.22	04.06.22	03.06.22

Drawing No. / Part No. : 3366018-N (R40023F) Rev No.-D Dated-10.02.22

Measuring instruments used:

1. Steel Tape 3000mm (Id. No.-IND/09/98/219, Calibration Due date- 30.10.2022)
2. Vernier Caliper 0- 300mm (Id. No- RBAF/VC-02, Calibration Due date- 30.10.2022)
3. Steel Scale 0- 1000mm (Id. No.-RBAC/SS-02, Calibration Due date- 21.09.2022)
4. Feeler Gauge 0- 0.5mm (Id. No.-RBAF/FG-01, Calibration Due date- 30.10.2022)
5. Vernier Caliper 0- 150 mm (Id. No- 1608757, Calibration Due date- 30.10.2022)
6. Digital Coating Thickness Gauge (Id-N936469, Calibration Due Date-30.10.2022)

- The report/certificate reflects our findings on the date, time & place of the inspection within the limit of our client's instruction & does not refer to any other matter. This report/certificate is issued without prejudice and not intended to relieve the supplier/shipper/buyer/any other parties from any obligation under contract with their principal client. The inspection result is related exclusively to the sample collected during sampling from commodity identified by our client at the time of inspection.
- The contents of the inspection report/certificate shall not be reproduced either in full or in part without prior written approval of the issuing authority. Any forgery, modification or misuse of our certificate is strictly forbidden and makes the offender liable to be prosecuted.
- As the testing was not performed in an Inspectorate Laboratory, the responsibility of the Inspectorate is strictly limited to witnessing the testing and ascertaining that the test method used is in accordance with Industry standards. Inspectorate is not responsible for the proper calibration and good working order of the laboratory equipment, instrumentation or reagents used by others, nor for the competence of the personnel performing the test and accept no liability in this respect. Inspection is performed to the best of our ability and conscience but without any responsibility on our part.
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INSPECTORATE

Eccentre, 16th Floor, Unit 1601,
Block – EM04, Salt Lake, Sector V
Kolkata-700091, India
Tel- +91 33 6644 6600
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DIMENSIONAL INSPECTION:	Drawing Dimension (in mm) Tolerance as per CT-10	Measured Dimension (in mm)			
		Sample-1	Sample-2	Sample-3	
CI 600KKF 550/50 FRAME WITH CW LOGO (R4023F)	A	680 ± 2.0	682	683*	682
	B	840 ± 2.0	830*	832*	832*
	C	Ø 554 ± 1.0	Ø 554	Ø 555	Ø 555
	D	Ø 500 ⁺² ₋₀	Ø 500	Ø 500	Ø 501
	E	Ø 590 ± 1.0	Ø 590	Ø 591	Ø 590
	F	Ø 680 ± 2.0	Ø 682	Ø 681	Ø 681
	G	210 ± 1.0	211	211	210
	H	50 ^{+0.5} ₋₀	50.4	50.6*	50.3
	I	20 ± 1.2	22*	22*	21
	J	60 ± 1.4	60.8	62*	61.2
	K	180 ± 2.0	180	181	181
	L	170 ± 2.0	168	169	168
	M	180 ± 2.0	180	181	181
	N	15 ± 1.1	16.6*	16.4*	16.6*
	O	15 ± 1.1	16.4*	16.3*	16.6*
	P	Weight – 132 Kg	128.8 Kg	128.8 Kg	128.2 Kg
Marking -	FRAME (Top Side) : COMBI WORKS Logo (Back Side) : CW3366018-N, 550/50, 04.06.22 / 03.06.22, FYD ID(S), EN124-2, D400				
Paint – Black Bitumen	Observed Black Bitumen paint.				

Remarks: Dimensions of 03 Nos sample Frame were checked as per Drawing & all measured values are incorporated in measured / observed Column. The star (*) marked values found beyond tolerance limits. Samples were not drawn by us and provided by manufacturer at the time of inspection. Our report is limited to the inspection at factory for the item checked. We did not witness packing, loading / removal of material from the plant.

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Inspected by: Ranjan Bala

For Inspectorate Griffith India Pvt. Ltd.
Verified by:

(Authorized Signatory)

For Inspectorate Griffith India Pvt. Ltd.
Issued by:



INSPECTORATE
Eccentre, 16th Floor, Unit 1601,
Block – EM04, Salt Lake, Sector - 7
Kolkata-700091, India
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Report No. : : IGI/FST 192474 /22-23/14-02

Date : 27.06.2022

TEST WITNESS REPORT

ISSUED BY: INSPECTORATE GRIFFITH INDIA (P) LTD

Item Description : CI 600M 550/50 COVER WITH CW LOGO (R4007C) &
CI 600KKF 550/50 FRAME WITH CW LOGO (R4023F)

Reference : BS EN-124-1:2015 / D-400 & as per Drawing

Casting Date (As cast on material)	Sample 1	Sample 2
	Cover	16.03.22
Frame	04.06.22	03.06.22

Scope of Inspection Scope : Witness of Load Test, Tilt Test, Vertical pull-Out test of Samples provided by manufacturer at the time of inspection as per mail dated 04.11.2020

Clear Opening (mm.) : Ø 500

Size of Bearing Block (mm) : Ø 250 (For Load Test) & Ø 75 (For Tilt Test)

Rate of Loading : 4 KN/Sec (For Load test) & 3 KN/Sec (For Tilt test)

Calibration Status of equipment :

1) **Load Testing Machine -**

Machine Capacity - 1000 KN
 Identification - RBA/LTM-01
 Calibrated on - 27.12.2021
 Next Calibration due on - 27.12.2022
 Calibration Authority - NUTECH CALIBRATORS & ENGINEERS, Kolkata.

2) **Universal Testing Machine (Pull Out & Tilt test)**

Machine Range - 100 KN
 Identification - RBA / UTM-01
 Calibrated on - 30.04.2022
 Next Calibration Due on - 30.04.2023
 Calibration Authority - NUTECH CALIBRATORS & ENGINEERS, Kolkata

3) **Dial Indicator -**

Range / Least Count - 0 to 50 mm / L.C.-0.01mm
 Identification - 10376
 Calibrated On - 13.01.2022
 Next Calibration Due on - 13.01.2023
 Calibration Authority - Accurate Measurement, Howrah.

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LOAD TEST:

Table with 4 columns: ITEM, QUANTITY, TYPE LOAD APPLIED (KN), TIME. Row 1: CI 600M 550/50 COVER (R4007C) with CI 600KKF 550/50 FRAME (R4023F), 02 sets, 400 KN, 30 Sec. Row 2: 10% extra load raised i.e. 440 KN, -

Tilt TEST:

Table with 7 columns: ITEM, Quantity, Applied Load (KN), Observed Tilting Height (1st, 2nd, 3rd, 4th position), As per Specification. Row 1: CI 600M 550/50 COVER (R4007C) with CI 600KKF 550/50 FRAME (R4023F), One set, Gradually increasing test load from 0 KN to 50 KN, 0.4 mm, 0.5 mm, 0.4 mm, 0.5 mm, 0.4 mm, 0.5 mm, 0.6 mm, 0.6 mm, Clause D.1 & D.2 of Annex-D (BS EN 124-1:2015)

Vertical Pull-Out Test:

Table with 5 columns: ITEM, Quantity, Clear Area, Total calculated Vertical Pull Out Force of Cover, Observed Vertical Pull Out Force against displacement of 25mm, As per Specification. Row 1: CI 600M 550/50 COVER (R4007C) with CI 600KKF 550/50 FRAME (R4023F), One set, 196250 mm², 785 N, 1) 480 N, 2) 480 N, 3) 480 N, Clause E.2.6 & E.2.7 of Annex-E (BS EN 124-1:2015)

Remarks:

Load was applied on geometrical center of C.I. Cover & Frame through a bearing block of relevant size & both the unit withstood the specified load for the time as mentioned above without showing any sign of failure. Tilt test & Pull test were witnessed and found to be in order. Load test was witnessed on two sample sets only which were provided by the manufacturer at the time of inspection. Our report is limited to the inspection at factory for the sample item checked. We did not witness packing, loading / removal of material from the plant.

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Witnessed By: Ranjan Bala

For Inspectorate Griffith India Pvt. Ltd.

For Inspectorate Griffith India Pvt. Ltd.

Verified by:

Signature of authorized signatory

(Authorized Signatory)

Issued by:



INSPECTORATE Griffith India Pvt. Ltd. Ecocentre, 16th Floor, Unit 16011 Block - EM04, Salt Lake, Sector V, Kolkata-700091, India Tel- +91 33 6644 6600 (Authorized Signatory) www.bureauveritas.com

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