FIRE RESISTANCE TEST REPORT SCHEDULED-1/1
REFERENCE NO. FSE-CSIR-CBRI/0944

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1	**Name of the Testing Laboratory**	:	Fire Safety Engineering CSIR-Central Building Research Institute, Roorkee-247667, Uttarakhand, India
2	**Name of the Sponsorer**	:	M/S Rock Miller All Tech India, Site No. 4, Assessment No. 34, Annapoorneshwari Nagae, Near Peenya 2nd Stage, Banglore, Karnataka-560 058
3	**Sample Manufacturer**	:	M/S Rock Miller All Tech India, Site No. 4, Assessment No. 34, Annapoorneshwari Nagae, Near Peenya 2nd Stage, Banglore, Karnataka-560 058
4	**Manufacturer Consent for Fire Test of Sample**	:	Yes
5	**Sample Fire Tested for the Project**	:	Not Applicable
6	**Type of Test Sample**	:	Door
7	**Surface of Test Sample**	:	Uncoated
8	**Symmetry of Sample**	:	Symmetrical
9	**Details of Sample**	:	Single leaf single swing metal door with vision panel
10	**Dimension of Sample**	:	**Size** **Door Frame** **Door Panel** Height : 2445 mm : 2355 mm Width : 1190 mm : 1114 mm Thickness : 143 mm : 48 mm
11	**Sample in-fill materials**	:	Rockwool of 96 Kg/m^3 in door panel and cement sand mortar in door frame
12	**Sample Vision Panel**	:	One No.: 270 mm (H) x 170 mm (W) x 5 mm (T) (Make: Schott Pyran)

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13	**Sample Hardware**	:	Door Closer on unexposed face (Make- Dorset) - 01 No., S.S. Ball Bearing Hinges (Make- Dorset) - 04 Nos, Smoke seal at door frame periphery (Make-Falcon), Intumescent seal at door frame grooved periphery (Make-Falcon), Both side operated three point panic bar with bottom rod (top, bottom shoot bolt and Centrally Latched) on exposed face and external trim on unexposed face (Make- Dorset)
14	**Sample Weight, Kg**	:	127 Kg (Excluding hardware)
15	**Description of Sample Construction**	:	As per Figure 1 and Figure 2
16	**Sample Orientation**	:	Vertical
17	**Sample Installation During Fire Test**	:	Opening outwards the furnace chamber **(latched condition)**- Self closed, Unlocked
18	**Name of the Fire Test**	:	Fire resistance test
19	**Date of the Fire Test**	:	March 12, 2025
20	**Laboratory Ambient Temperature**	:	23^0C
21	**Lab Relative Humidity**	:	53%
22	**Intended Fire Test Duration**	:	120 minutes
23	**Fire Exposure & Fire Test Standard**	:	AS per IS: 3614-2021, Heating conditions as per ISO-834 & general requirement as per ISO-3008, 2019 or IS 17518: Part 1: 2022
24	**Furnace Temperature During Sample Fire Test**	:	Standard and furnace actual time-temperature profiles with respect to time are shown in Table-1.

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25	Furnace Pressure During Sample Fire Test	:	Furnace pressure profiles are shown in Table-1.
26	SampleTested Under Fire Test Category	:	Uninsulated
27	Position of Thermocouples on the Unexposed Face of the Sample	:	Not Applicable
28	Temperature Profile on the Unexposed Face of the Sample	:	Not Applicable.
29	Position of Radiometer from the unexposed face of the sample	:	Not Applicable.
30	Radiation profile from the unexposed face of the sample	:	Not Applicable.
31	Position of thermocouples at the Interface of Sample and Protection Applied	:	Not Applicable.
32	Temperature Profile at the Interface of Sample and Protection Applied	:	Not Applicable.
33	Sample tests prior to fire test	:	Not Applicable
a)	Impact Test	:	Not Applicable
b)	Water Absorption Test	:	Not Applicable
c)	Accelerated Ageing Test	:	Not Applicable
b)	Vibration Test	:	Not Applicable
34	Applicability of Fire Resistance Test Criteria As Per Fire Test Standard		
a)	Radiation (W)	:	Not Applicable.
b)	Thermal Insulation (I)	:	Not Applicable
c)	Integrity (E)	:	Applicable up to 120 minutes.
d)	Stability (R)	:	Applicable up to 120 minutes.
e)	Hose Stream	:	Not Applicable.
f)	Under Load	:	Not Applicable.

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35	**Performance of Applicable Fire Test Criteria Under Fire Resistance Test**		
a)	**Radiation (W)**	:	Not Applicable.
b)	**Thermal Insulation (I)**	:	Not Applicable
c)	**Integrity (E)**	:	No failure at 120 minutes
d)	**Stability (R)**	:	No failure at 120 minutes
e)	**Hose Stream**	:	Not Applicable.
f)	**Under Load**	:	Not Applicable.
36	**Under load/Without load**	:	Not Applicable.
37	**Fire Test Witnesses**	:	Mr. Shivaramu S. and Mr. Devendra
38	**Observations During Fire Resistance Test**	:	No sustained flaming or any gap, voids were observed on unexposed face of sample during 120 minutes of standard fire exposure.
		:	Vision panel remains clear during entire duration of standard fire exposure.
39	**Observations After Fire Resistance Test**	:	Not Applicable.
40	**Results of Fire Resistance Test**	:	Sample withstands standard fire exposure for 120 minutes with respect to integrity (E) and stability (R) only.
41	**Fire Resistance Rating of the Tested Sample**	:	**Sample meets uninsulated metal door fire resistance rating criteria of 120 minutes (One hundred twenty minutes only) with respect to Integrity (E) and Stability (R) only.**
42	**Test Report Issue Date**	:	April 03, 2025

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43	Test Report Issued To	:	M/S Rock Miller All Tech India, Site No. 4, Assessment No. 34, Annapoorneshwari Nagae, Near Peenya 2nd Stage, Banglore, Karnataka-560 058
44	Validity Period of Fire Test Report	:	Five years period from the date of fire resistance test of the sample.

This is to certify that representative metal fire door sample of M/S Rock Miller All Tech India, Banglore, Karnataka-560 058, has been investigated for fire resistance by Fire Safety Engineering, CSIR-Central Building Research Institute, Roorkee, Uttarakhand, India in accordance with the standard and meets fire resistance rating criteria indicated on this fire resistance test report.

Report Prepared by

Bhawna

(Bhawna)

Report Approved Authority

Nawal 03/04/25

(Dr. Nawal Kishor Banjara)

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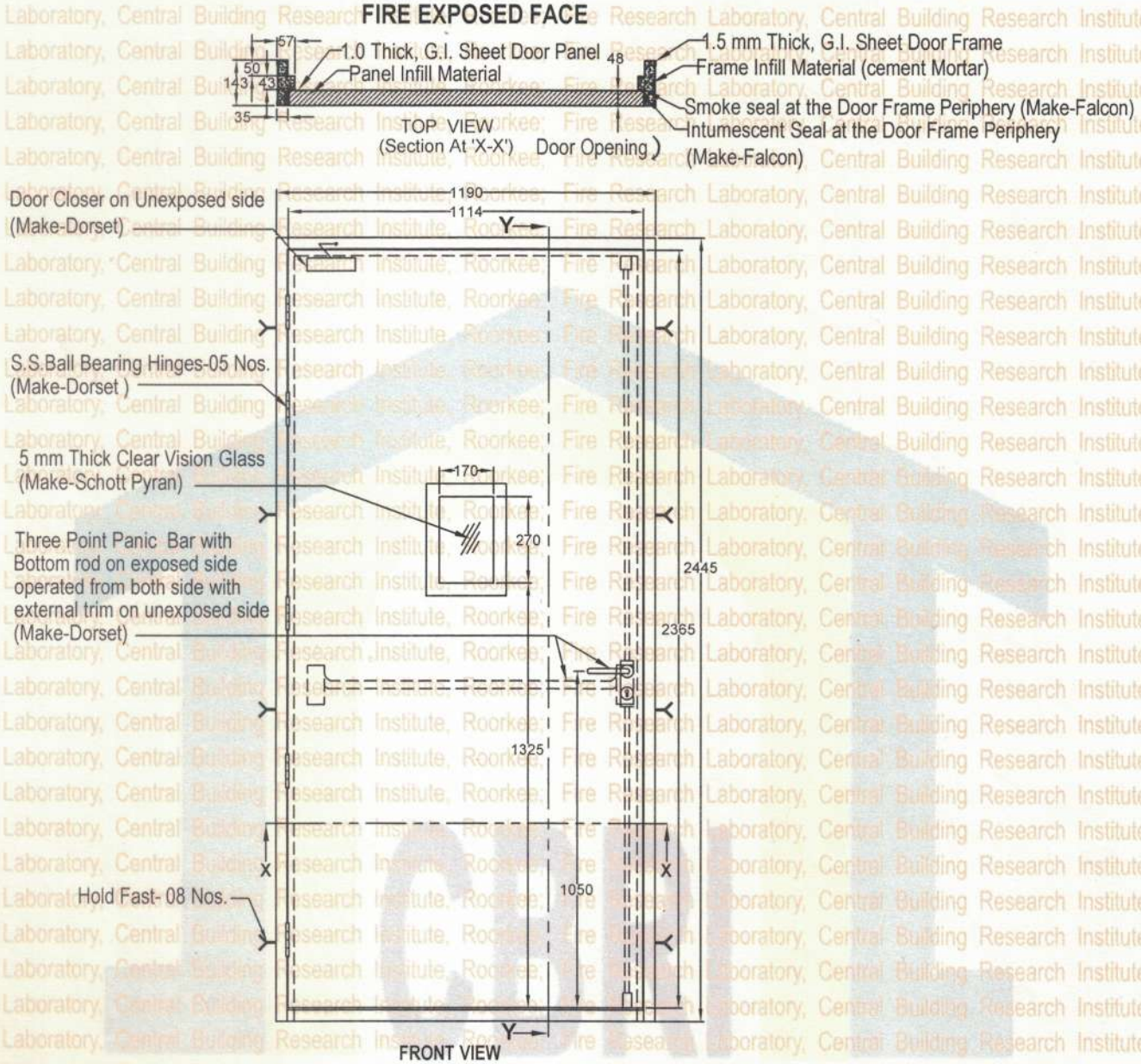
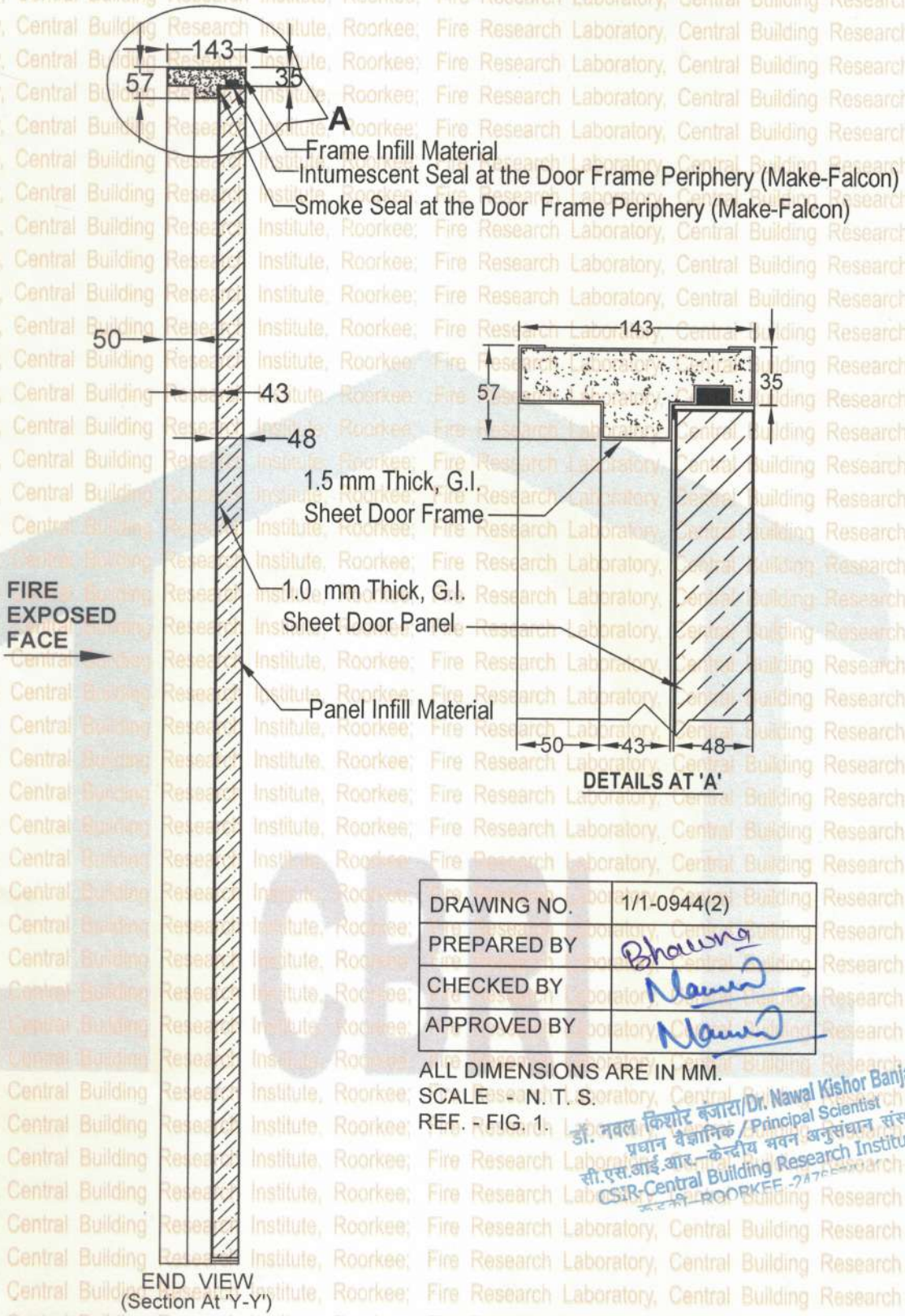


Note:
Colour of Door Frame and Door Shutter:- Uncoated
Infill Material-Rockwool 96 kg/m3(Panel), Cement Mortar(Frame)
Weight of Door-127 kg (Excluding Hardware)

ALL DIMENSIONS ARE IN MM
SCALE - N.T.S.

DRAWING NO.	1/1-0944(1)
PREPARED BY	Bhawna
CHECKED BY	Nawal
APPROVED BY	Nawal

Fig. 1: Construction Details of Single Leaf Single Swing G.I. Composite Fire Door with Vision Panel (Uninsulated Specimen) Evaluated for Fire Resistance on March 12, 2025.



DRAWING NO.	1/1-0944(2)
PREPARED BY	Bhawna
CHECKED BY	Nawal
APPROVED BY	Nawal

ALL DIMENSIONS ARE IN MM.
SCALE - N. T. S.
REF. - FIG. 1.

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Fig. 2: Sectional Details of Single Leaf Single Swing G. I. Composite Fire Door with Vision Panel (Uninsulated specimen) Evaluated for Fire Resistance on March 12, 2025.