

TEST SCHEDULE 1/1
(Reference No. – FR /0082)

1. Name of the Laboratory

: Fire Engineering
CSIR-Central Building Research Institute,
Roorkee-247 667

2. Name of the Sponsorer

: M/S Bajaj Steel Industries Ltd.,
C-108, MIDC, Hingna Industrial Estate,
Nagpur-440 028

3. Name of the Test

: Fire Resistance Test

4. Date of Test

: January 27, 2023

5. Ambient Temperature

: 16 °C

6. Fire Exposure

: As per BS:476 (Part 20 & 22)-1987,
IS:3614(Part-2)-2021

7. Applicability of Test Criteria

: Insulation (I) : 30 min. only
: Integrity (E) : Yes
: Stability (R) : Yes

8. Specimen Details

: Single Leaf Single Swing G.I. Composite Fire
Door with vision panel

| Size | Door Frame | Door Panel |
|-----------|------------|------------|
| Height | : 2200 mm | : 2154 mm |
| Width | : 1100 mm | : 1018 mm |
| Thickness | : 143 mm | : 48 mm |

9. Specimen Construction

: As shown in Figure 1 and Figure 2
[Drg. No. 1/1 – 0082 (1) and Drg. No. 1/1-0082(2)]

10. Door Type

: Thermal Insulation-30 min., Integrity & Stability- 120 min.

11. Door Installation

: Opens outwards the furnace chamber

12. Intended Test Duration

: 120 Minutes

Test Results

The data of the evaluation reveals that the single leaf single swing G.I. composite fire door (insulated) specimen with vision panel has been found to be able to withstand standard fire for 30 min. (Thirty minutes only) with respect to **Insulation** and 120 minutes (One hundred twenty minutes only) with respect to **Integrity and Stability** as per IS:3614(Part-2)-2021.

(Prepared By)

(Sushil Kumar)

(Checked By)

(Dr. Banti A. Gedam)

(Approved By)

(Dr. Harpal Singh)

(Technical data provided in this schedule pertains to the specific sample submitted to the Institute and tested. CBRI's name or logo cannot be used for commercial purposes. All procedural, legal, and / or operational matters will be the responsibility of the party using these results. Accepting / Rejecting the results, partly or fully rests with the users agencies.)



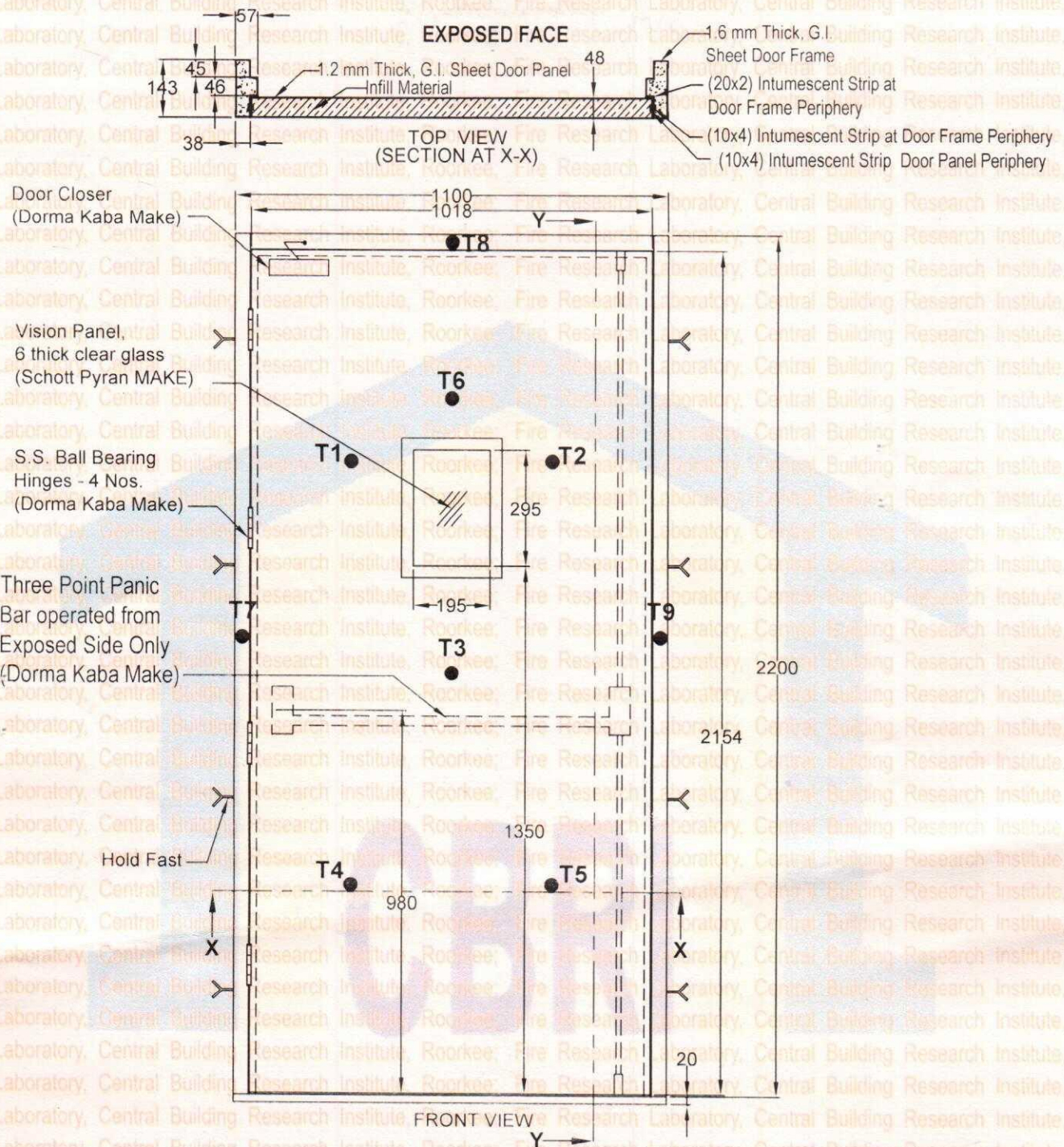
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(A Constituent Establishment of CSIR)



● - POSITION OF THERMOCOUPLES
ALL DIMENSIONS ARE IN MM
SCALE - N.T.S.

| | |
|-------------|--------------------|
| DRAWING NO. | 1/1-0082 (1) |
| PREPARED BY | <i>[Signature]</i> |
| CHECKED BY | <i>[Signature]</i> |
| APPROVED BY | <i>[Signature]</i> |

Fig. 1: Construction details of Single Leaf Single Swing G.I. Composite Fire Door (Insulated) with Vision Panel specimen evaluated for Fire Resistance on January 27, 2023.

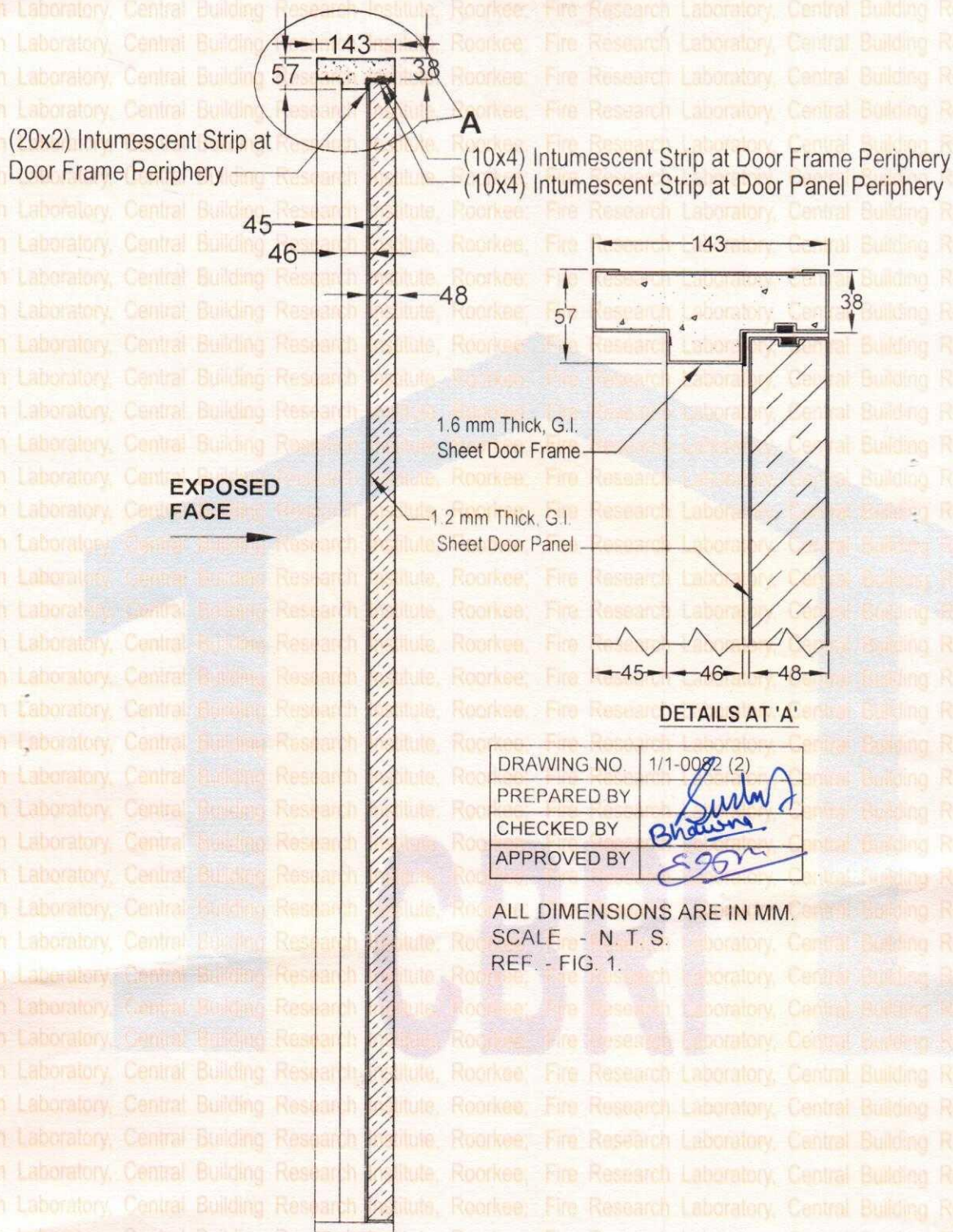


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DETAILS AT 'A'

| | |
|-------------|-----------------|
| DRAWING NO. | 1/1-0082 (2) |
| PREPARED BY | <i>Sushant</i> |
| CHECKED BY | <i>Bhaskar</i> |
| APPROVED BY | <i>S. S. S.</i> |

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

Fig. 2: Sectional details of Single Leaf Single Swing G.I. Composite Fire Door (Insulated) with Vision Panel specimen evaluated for Fire Resistance on January 27, 2023.



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