

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Brickland Composite Ltd. (Relocated)

RSC ID: 24716

Factory Address: Barpa, Rupshi, Rupganj, Narayanganj-1464, Bangladesh

Other Factories: None



Inspected By: Mahbub Alam Sami

Date: 26-Dec-2023

Fire Safety Inspection Report

Brickland Composite Ltd. (Relocated)

Introduction:

Brickland Composite Ltd. (Relocated) complex was surveyed for fire safety on **26th Dec 2023** by The RSC Inspection Team. The purpose of the survey was to identify significant fire safety issues and to provide recommendations for remediation based on applicable standards specified by the RSC. The scope of this initial fire safety inspection was limited to the review and identification of major fire safety issues. The inspection did not include identification of minor deficiencies, which will be further addressed as part of follow-up inspections.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The RSC cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained.

The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

General Factory Information

Factory Building name(s):

i) **Shed-1 (Single Story Steel Structure- Main Production Shed)- New Construction**

Construction: April 2022 to September'22. Occupied: Oct'2022

Height: 8.79 m up to pick. (As per BNBC 2020)

ii) **Shed-2 (Single Story Steel Structure- Jacuarde Shed); - New Construction**

Area: 1148 sqm; Construction: June 2022 to Dec 2022 ; Occupied: Oct'2022

Used for: Proposed Jectuard Section (Currently using for storage).

Height: 17 ft 10 inch. **Up to pick.**

Factory Address: Barpa, Rupshi, Rupganj, Narayanganj-1464, Bangladesh

Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue. An implementation schedule shall be developed by the factory to remediate each of the findings.

The specific timing of improvements, including any requested extensions due to design / installation constraints, shall be submitted to the RSC for review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire-Rated Construction	Main structural element of the Shed-1 is constructed by steel element which is non-rated and were found in exposed condition without any fire protection. The shed-1 is a "new building" & the pick height from the finished grade level was found more than 8 m. Adequate front road & open space not found.	Provide required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC2020 Part 4. Consult a qualified fire protection engineer to design the required fire rating for the structure.	Within 6 months
				

F-2	Fire Rated Construction	Shed-2 is not separated by fire-rated construction due to non rated door and openings with Shed-1.	Provide required fire rating following Section 4.4 and Table 4.4.1 of the RSC Standard or Table 3.3.1 and Table 4.1.1 from BNBC2020 Part 4.	Within 4 month
 				
F-3	Fire-Rated Construction	Dinning & Prayer room (Assembly Occupancy) is provided in the Shed-1 (Industrial Occupancy) which is not permitted according to BNBC 2020, Part III Chapter 2 Table 3.2.1	In new construction Assembly occupancy (I) is not allowed with industrial occupancy (G2). Relocate the dining to or from this building to meet the requirement as per BNBC 2020, part III chapter 2 table 3.2.1.	Within 3 months

				
F-4	Fire Rated Construction	Boiler room is not separated from production floor by the required fire rated construction. Location: South-West corner of Shed-1.	Separate the boiler room by a minimum 1-hr fire rated construction. Seal and/or protected all openings to maintain fire separations.	Within 3 months
  				

F-5	Fire Rated Construction	Areas used for in-process storage of combustible materials are open to the surrounding occupancy which are not separated by fire rated construction. Location: Shed -01	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Or, Where separate storage rooms are not feasible, Provide defined storage areas and limit the storage arrangement as follows:- 1. General Condition: Maximum height of 2.4m (8 ft) and maximum area of 23 m² (250 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft). 2. If sprinkler protected: Maximum height of 3.66 m (12 ft) and maximum area of 93 m² (1000 sft). Separate areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft). Note: Do not exceed 10 percent of the building area of the story in which they occur.	Within 3 months
-----	-------------------------	---	--	-----------------



F-6	Means of Egress	Collapsible and sliding doors are provided at building exits, exit stair and along egress routes. Location: Shed-01 & Shed-02	Replace all collapsible and sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101	Within 1 month
 				
F-7	Means of Egress	Buildings did not have occupant load signs at the required locations. Location: Shed-01 & Shed-02	Provide occupant load signs at the required locations.	Within 1 month
F-8	Emergency Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 1 month

				
F-9	Emergency Lighting	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1month
F-10	Fire Alarm & Detection System (FADS)	The factory has installed an addressable fire alarm & detection system which is required to be reviewed and verified.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification (if required) shall have to done as per the reviewed design and NFPA- 72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design within 2 months, installation/modificati on within 3 months

F-11	Fire Detection ITM	Inspection, testing, and maintenance for the fire detection system is not in accordance with NFPA 72.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month after installation.
F-12	Fire Extinguishers ITM	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10 and RSC standards.	Within 1month