

FIRE SAFETY INSPECTION REPORT

Comfit Composite Knit Ltd. (Extensions 2)

Factory ID: 24544

Gorai, Mirzapur, Tangail.

24.096055, 90.174206

Other Factories in the Premises: Comfit Composite Knit Ltd (ID 9479), Comfit Composite Knit Ltd (Extension) (ID 12494), Comfit Composite Knit Ltd (New Building) (ID 23238)



Inspected by: Md. Rakibul Alam & Md. Khalaquzzaman

Date: 8 May 2023



Fire Safety Inspection Summary Report

Comfit Composite Knit Ltd. (Extensions 2)

Introduction

Comfit Composite Knit Ltd. (Extensions 2) complex was surveyed for fire safety on 8 May 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):

1. **Banana Leaf Building**
2. **ECO-Ville Building**
3. **New Utility building**
4. **ETP Extension Buildings**

Factory Address: Gorai, Mirzapur, Tangail.

Points of Contact:

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GM – IR & Compliance

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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 approval.



Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Protection	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard). (All buildings)	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test.	Drawing Within 3 months Install Within 3 months
 				
F-2	Fire Protection	The fire pump set installation requires detailed review to confirm compliance with NFPA 20 and RSC Technical Guidelines (Standard).	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and then approval/acceptance test.	Drawing Within 3 months Install Within 3 months





F-3	Fire Protection	The firefighting system (sprinkler & standpipe) installation requires detailed review to conform compliance with NFPA 13, NFPA 14. (Eco Ville and Banana Leaf Building)	Submit as built drawing, testing records, equipment certification and all relevant documents to the RSC for review, approval and acceptance test.	Drawing Within 3 months Install Within 3 months
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F-4	Egress	Elevator shaft is provided in the exit stair enclosures and directly open to exit stair enclosure. (Eco Ville and Banana Leaf Building).	Modify the elevator and stair enclosure arrangement in a way to satisfy RSC standard 6.14.3. Or Separate the elevator by 1.5-hr fire rated opening protection from factory floors and exit stairs. There is a variety of opening protective types i.e., fire rated lift landing doors, fire doors with vestibules, fire rated curtain combination for both heat & smoke control with integration with fire alarm control panel.	Within 3 months
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F-5	Egress	Exit discharge path not leveled surface (New Utility Building).	Level the exit discharge path to ensure smooth and safe evacuation and ensure that the path is slip resistant.	Within 1 month
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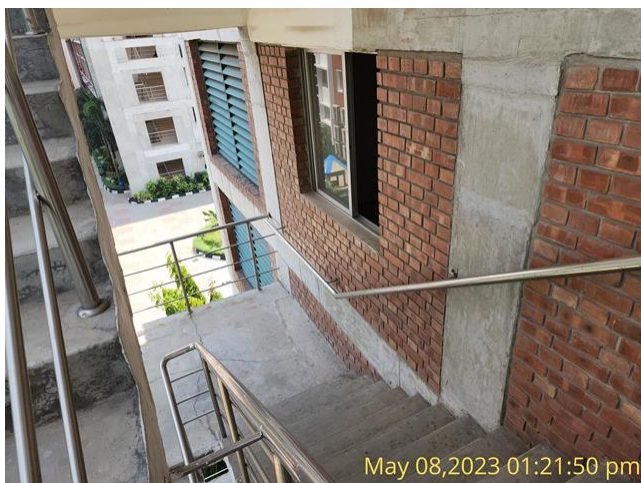


F-6 Fire Rated Construction

Exterior exit stairs are not properly separated from the building.
(New Utility Building)

Exterior exit stairs shall be separated from the building with a rating requirement of 1-hr. fire rating for 3 or few store building. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structures.

Within 3 months



F-7	Fire Rated Construction	Areas used for combustible storage open to the factory are not properly defined and/or not within limits. (Banana Leaf –1 st floor Eco ville – Mezzanine)	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45m (8 ft) and maximum area of 23 m² (250 ft²). If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m² (1000 ft²). Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft). Areas shall limit within 10% of entire floor area.	Within 2 months
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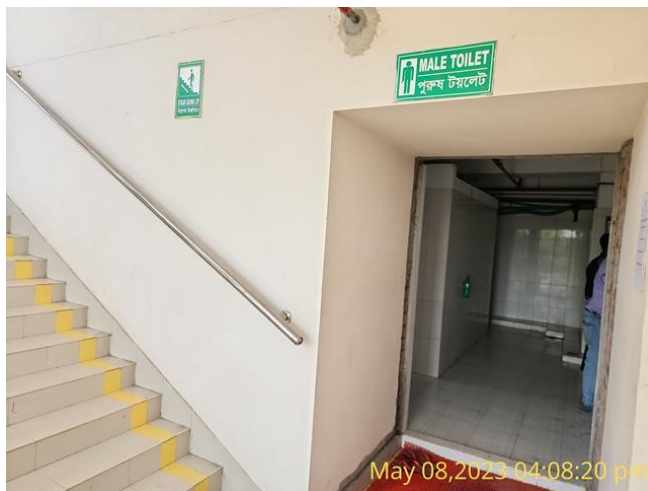


F-8	Fire Rated Construction	Unsealed utility pipes, electric riser penetration located in the fire-rated floor/ceiling assemblies (All buildings)	Penetrations of fire resistive rated assemblies shall be protected with listed through penetration fire stop system tested in Accordance with ASTM E814 in Accordance with RSC standard 4.7.	Within 3 months
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F-9	Fire Rated Construction	Exit doors are provided with 2 hr fire rated doors however fire door accessories are not working as required. Also several door has no credible listing mark. (All buildings)	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation (10" wall). Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets RSC 6.8.3.1.	Within 1 month
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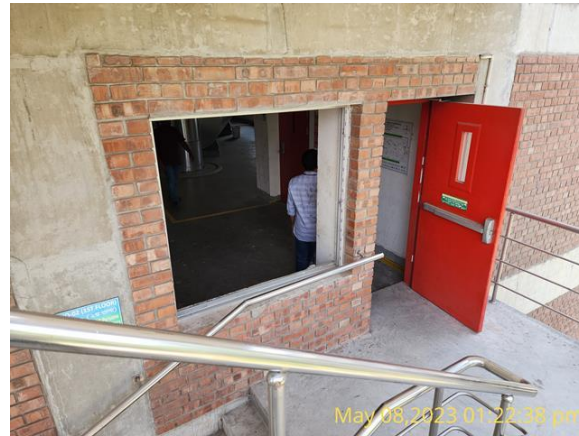


F-10	Egress Lighting	Directional sign was not provided at the path of egress / in a readily visible location. (All buildings)	Provide lighted directional signs along all paths of travel where a change of direction is not obvious.	Within 1 month
F-11	Egress	Fire evacuation maps is not posted at the entrance of the exits at buildings. Also not updated.	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs and maps shall be updated regularly when required.	Within 1 month



F-12	Fire Rated Construction	Storage/ storage rooms discharges directly into the exit stair enclosures. (Eco Ville – 1 st floor)	Openings from exit enclosure to storage room, generator, basements, transformer boiler and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings as per RSC Technical Guidelines (Standard) 6.14.3. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the storeroom/storage side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	Within 3 months
F-13	Fire Rated Construction	Unsealed penetrations and openings are located in exit stair enclosures. and separation walls. (New Utility Building)	Seal all penetrations and openings in exit stair enclosure and separation walls to maintain the required fire separation. Penetration is prohibited into and through an exit enclosure.	Within 2 months





F-14	Egress	Width of exit stairs is less than 1.5 m (60 in.) (ETP building, Banana leaf building and utility building).	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with RSC 6.5.6.2.1.	Within 4 months
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F-15	Fire Rated Construction	The fire pump room is not provided with adequate fire separation. (Unprotected opening and penetration)	Provide fire pump room with 2 hr rated fire separation when not sprinklered and 1 hr rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20.	Within 3 months
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F-16	Fire Rated Construction	Proper certification was not available for fire rated doors installed in the factory.	Submit proper certifications for installed fire doors during inspection for approval. If not available, or certification is not approved, install new, properly certified fire rated doors in accordance with RSC direction.	Within 3 months
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F-17	Egress	Adequate and unobstructed aisles were not provided at Banana Leaf Building.	Provide minimum and clear aisle widths of 36-in where applicable and required.	Within 3 months
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F-18	Egress	Width of exits were less than 1 m (39 in.). (S-E and S-W exit of Banana leaf building and where applicable).	Provide exits minimum clear and unobstructed width of 1m (39 in.) in accordance with RSC 6.5.6.1.	Within 4 months
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F-19	Egress Lighting	Manual on-off switch is provided for emergency lighting / exit signage units. All buildings.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month
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F-20	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. All buildings.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
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F-21	Egress	Headroom on the means of egress does not meet the RSC 6.3.3. (Eco Ville building 3rd floor)	All means of egress shall have a minimum ceiling height of 2.3m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.).	Within 2 months
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