

# INITIAL FIRE SAFETY INSPECTION REPORT

## Oxford Knit Composite Ltd. (Extension)

RSC ID: 26360

260, Ariab, Rupshi, Tarabo Pourosova, Rupganj, Narayanganj.

Geographical Coordinates of factory building: latitude 23.75766 and longitude 90.44967

Other Factories: Oxford Knit Composite LTD (24208)



Inspected By: Mohammad Anayet Hossain and Protik Kumar Das

Date: 24 June-2025

# Fire Safety Inspection Report

## Oxford Knit Composite Ltd. (Extension)

### Introduction:

RSC ID: 26360

**Oxford Knit Composite Ltd. (Extension)** complex was surveyed for fire safety on 24 June 2025 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): The building under this inspection scope (ID- 26360).

1. Building- 5: Partial 3 storied (G+1+R). (Construction period 2016-2024, Interim construction; Total area: 8075 Sq. ft (Ground floor: 4025 Sq. + 1st floor: 4025 Sq. + Roof floor: 247 Sq.)).

### Other Structures in the factory premises (covered by another RSC ID: 24208):

1. Building -1 (Main Production Building ).
2. Building-2 (Utility building 1).
3. Building -3 (Utility building 2).
4. Building -4 (Security building).

**Factory Address:**260, Ariab, Rupshi, Tarabo Pourosova, Rupganj,

### Points of contact:


1. Name: Md. Masud Rana  
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1. Name: Md. Liton  
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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 review.


**Table-1: Finding & recommendation for Building-5.**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 1-hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories in accordance with section 6.3.1.2 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.</p>	Within 3 months
				

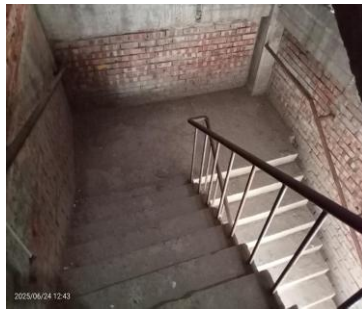
F-2	Means of Egress	Storage areas discharge directly into the exit stair enclosure.	<p>Openings from exit enclosure to Storage areas/ basements/ transformer rooms/ generator rooms/ boiler rooms and similar normally unoccupied spaces shall be provided with a vestibule with fire rated construction and openings in accordance with section 6.14.3 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. Provide a min 1-hr fire rated door on the exit stair side and a 1-hr fire rated door on the Store, generator, sub-station room side . Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure as per RSC Technical Guidelines (Standard)<sup>1</sup> V1.0. section 6.14.3. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.</p>	Within 3 months
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F-3	Means of Egress	Unprotected opening within 10 ft horizontal distance from discharge point where the elevation of unprotected opening is less than 10 ft.	Provide protection of unprotected opening within 10 ft horizontal distance from discharge point where elevation of unprotected opening is less than 10 ft.	Within 3 months
				
F-4	Means of Egress	Aisles were found missing on several locations throughout the building.	Provide minimum aisle widths of 36-in. Aisles mark shall be clearly visible.	Within 3 months
				

F-5	Means of Egress	Stairs (Both stair) clear width was found less than 60 in. Available Stair Width: Stair-1 (N-W side=54 inch) Stair-2 (N-E side=55 inch)	Stairs shall have a minimum clear width of 60 in. for all industrial occupancies as per RSC Technical Guideline (Standard) section of 6.5.6.	Within 3 months
				
F-6	Means of Egress	Fire evacuation maps is not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 13.3.	Within 3 months
F-7	Means of Egress	Building does not have occupant load signs at required locations on all floors.	Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.4.4 .	Within 3 months

F-8	Mean of Egress	Building does not have stair/floor level designation signs at required locations on all floors.	Provide stair designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.9.3.	Within 3 months
F-9	Means of Egress	Based on the number and location of emergency lighting units (emergency light, exit sign, directional exit sign) 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. Illumination on means of egress shall meet in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 10.12.2.	Within 3 months
F-10	Means of Egress	Handrails are provided on both sides of the exit stair and are not as per standard.	New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.). Handrail shall construct in accordance with RSC Technical Guidelines (Standard) <sup>1</sup> V1.0 Section 6.12.	Within 3 months





F-11	Means of Egress	Parapets or guards are provided in roof which is less than 1067mm (42 inch.).	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
				
F-12	Fire Rated Construction	LPG cylinders were located within the factory on ground floor kitchen room without adequate fire separation.	<p>Remove the liquefied or compressed flammable gas cylinders. The storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building as per section 3.4.2.1.11 of RSC Technical Guidelines (Standard)<sup>1</sup> V1.0.</p> <p>Or,</p> <p>Factory shall follow the requirements RSC Published "SUPPLEMENTARY PAPER ON TECHNICAL GUIDANCE NOTE FOR USE OF LIQUIFIED OR COMPRESSED FLAMMABLE GAS IN FACTORY PREMISES" to use or store liquefied or compressed flammable gas cylinders in the factory premises.</p>	Within 3 months



F-13	Fire Rated Construction	Cooking operation on kitchen area doesn't meet section 5.10 of RSC Technical Guideline (Standard)	<p>Cooking operations that produce grease laden vapors shall be prohibited in factory premises.</p> <p>If cooking operation is required, ensure ventilation and a fire protection system is provided in accordance with NFPA 96.</p>	Within 3 months
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F-14	Fire Rated Construction	The required fire separation distance for Building-05 does not comply with the requirements of BNBC 2006.	The exterior walls shall have a fire resistance and opening protection as specified in BNBC 2006, Tables 3.2.2 and Part 3 Section 2.4.1.3	Within 6 months
<div style="display: flex; justify-content: space-around;">   </div>				
F-15	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas.</p> <p>Location (s): Ground &amp; 1st floor.</p>	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction in accordance with section 3.4.2.1.5 of RSC Technical Guideline (Standard).	Within 3 months



F-16	Fire Alarm & Detection System (FADS)	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	<p>Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72 to meet section 5.7.3 of RSC Technical Guideline (Standard)</p> <p>Submit the proposed fire alarm system design to RSC for review. Once the design is reviewed, install and modify the fire detection and alarm system throughout the building in accordance with review comment, RSC/ RSC Technical Guidelines (Standard) and NFPA 72. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.</p>	Design within 2 month and modification/ installation with 4 months
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F-17	Inspection, Testing & Maintenance (Fire)	Inspection, testing and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system and keep written records on-site, in accordance with NFPA 72 and RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.s.	Within 1 month after installation.
F-18	Inspection, Testing & Maintenance (Fire)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0..	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with the RSC Technical Guidelines (Standard) <sup>1</sup> V1.0.. Keep written records on-site.	Within 3 months
F-19	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months