

# INITIAL FIRE SAFETY INSPECTION REPORT

## Epyllion Knitwears Limited (Madanpur Project)

**RSC ID: 24226**

**ADDRESS: Village: Madanpur, P.O: Madanpur, Bondor, Narayangonj, Post code- 1411.**

Geographical Coordinates of factory building: 23.691855361603682, 90.54455721595377

**Other Factories:**



**Inspected By: Mohammad Anayet Hossain & Md. Anisuzzaman**

**Date: 26-September-2021**

# Fire Safety Inspection Report

## Epyllion Knitwears Limited (Madanpur Project)

### Introduction:

**Epyllion Knitwears Limited (Madanpur Project)**; complex was surveyed for fire safety on **26/09/2021** 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. Production Building  
2. Utility Building  
3. Childcare building

**Factory Address:** Village: Madanpur, P.O: Madanpur, Bondor, Narayangonj, Post code- 1411.

### Points of contact:

1. Name: Mohammad Shah Alam ,  
Designation: Assistant General Manager- CSR,  
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1. Name: Md. Hafiz-Al-Asad,  
Designation: General Manager,  
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## Findings & Recommendations :

Table 1- summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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 & Recommendations**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	<p>Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction.</p> <p>Location: Production building.</p>	<p>Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels.</p> <p>The clearance under the bottom of a fire door shall be a maximum of 19mm. Provide vestibules to separate the storage areas.</p> <p>Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.</p>	Within 3 months



F-2	Fire Rated Construction	<p>Elevator shafts are directly open into the exit Enclosure (Exit stair-1 &amp; Exit stair-7)</p> <p>Location: Production building</p>	<p>For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3. So, separate the stair enclosure from elevator shaft throughout the building.</p>	Within 3 months
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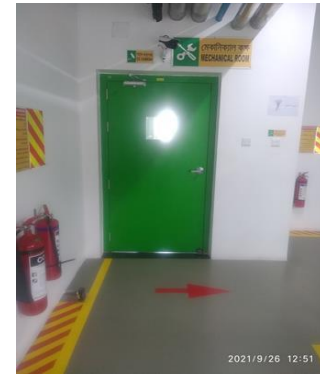
F-3	Fire Rated Construction	Room used for combustible storage are not properly fire separated by fire rated construction at several floor of production building.	Provide dedicated storage rooms separated by minimum 1 hr. fire rated construction. Seal all unprotected openings and penetration. The clearance under the bottom of a fire door shall be a maximum of 19mm. Ensure that the fire doors are self-closing and positive latching and that they are provided with fire exit (panic) hardware where serving production floors. If fire doors are required to be held open for functional reasons, provide automatic closing devices tied to the fire alarm system.	Within 3 months
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F-4	Fire rated construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.  Location: 4th floor of production building.</p>	<p>Provide defined storage areas and limit the storage arrangement as follows:  Maximum height of 2.45 m and maximum area of 23 m<sup>2</sup> and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft<sup>2</sup> (93 m<sup>2</sup>) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft<sup>2</sup> (372 m<sup>2</sup>) of the sprinklered area, whichever is greater.  or,  Enclose the storage area from the surrounding occupancy with a minimum 1 hour fire rated construction.</p>	Within 3 months
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F-5	Fire rated construction.	<p>Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. The clearance under the bottom of the fire door is more than 3/4 in. (19 mm).</p> <p>Location: Electrical riser, Mechanical room, Stream, Chiller riser &amp; Chute garbage.</p>	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by third-party certified fire rated materials to maintain the fire resistance rating. Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. The clearance under the bottom of a fire door shall be a maximum of 3/4 in. (19 mm).</p>	Within 3 months
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F-6	Fire rated construction.	Exit discharge path(passageway) are not properly fire separated by fire rated construction due to unprotected opening & penetration. Location: ground floor near to stair-6 of production building.	Separate the exit passageway (ceiling, floor, wall etc.) by 2- hr. fire-resistance rated construction and shall terminate at an exit discharge.	Within 3 months
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F-7	Fire Rated Construction	<p>The Dining area &amp; prayer are not separated by fire rated construction with the adjacent other occupancies(Storage)</p> <p>Location: First floor of production building.</p>	<p>Separate the dining area &amp; prayer from other occupancies( storage) by minimum 3-hr fire rated construction. Provide rated exit passageways leading directly to the exit stairs of the same resistance rating.</p>	Within 3 months
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F-8	Fire Rated Construction	<p>The exit discharge path (Egress Court) was less than 10 ft wide and was not separated from the building interior. Location: N-S-E side of production building</p>	<p>Seal all penetrations and openings to the interior of the building along the discharge path, up to a height of 10 ft. to provide a minimum 2-hr fire separation.</p>	Within 3 months
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F-9	Fire Rated Construction	<p>Exterior exit stairs are not properly separated from the building. Location: Near to stair -1</p>	<p>Exterior exit stairs shall be separated from the building with a rating requirement of [ 1 hr. fire rating for 3 or fewer stories or 2 hr. fire rating for 4 or more stories ]. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.</p>	Within 2 months
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F-10	Means of Egress	The egress path along the means of egress has been interrupted by obstruction/storage and aisles are not marked at 4th floor of production building.	Means of egress shall be maintained continuously free and clear of all obstructions/storage. Or Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in).	within 1 month
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F-11	Means of Egress	The exit discharge path (Egress Court) are obstructed by construction materials Location: Near to childcare building	Means of egress shall be maintained continuously free and clear of all obstructions	Immediate
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F-12	Egress lighting	<p>Emergency lights not illuminated during testing (burned out, broken, etc.).</p> <p>Location : Several location several floor of production building</p>	<p>Regularly inspect all emergency lighting system as per Accord standard and replace/install lights as needed to illuminate signs.</p>	<p>Within 1 month</p>
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F-13	Egress Lighting	Exit sign not provided at required exit. Location: Several location of production building.	Lighted exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
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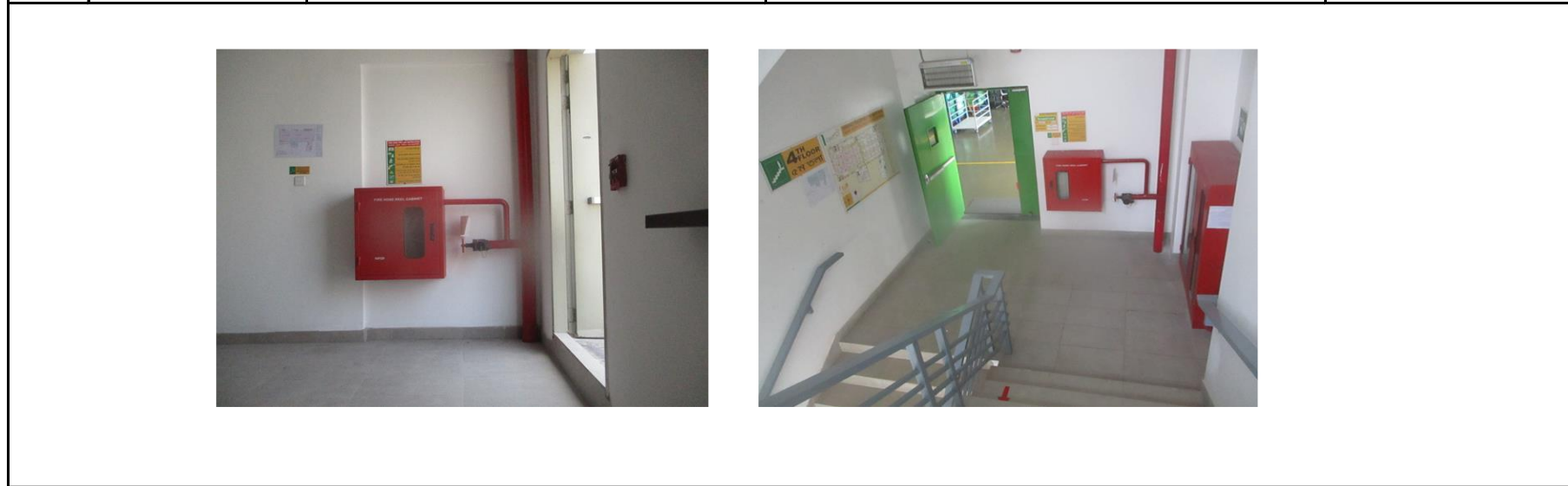


F-14	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes .	Test the emergency lighting system on each floor and provide additional emergency fixtures to provide adequate illumination along the means of egress. 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 3 months
F-15	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-16	Fire Alarm & Detection System (FADS)	The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, Install within 4 months.
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F-17	Fire Protection System(Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 ,20 ,22 & 24	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Design within 2 months, Install within 4 months.
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F-18	Fire Protection(Sprinkler )	The high-rise building has an occupied floor greater than 23 meter (75 feet) and is not provided with automatic sprinkler protection.	<p>Considering present condition minimum class-I standpipe system shall be provided along with sprinkler system for the building following NFPA-13,14,20,22 and 24. If height of the building is reduced to less than 23 m then sprinkler system is not mandatory then only class-III standpipe system can meet the standard requirement.</p> <p>Design &amp; Installation of Sprinkler system should be in accordance with ACCORD standard and NFPA 13,20, 22 and 24. Submit all design and documents to RSC for review prior to installation/modification.</p>	Design within 2 months, Install within 6 months
F-19	Fire Protection System(ITM of Sprinkler)	Inspection, testing, and maintenance for the Sprinkler system is not in accordance with NFPA 13,25 or as per Accord standard.	Inspect, test and maintain the sprinkler system in accordance with NFPA 13,25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.
F-20	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20,25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

F-21	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14,25 or as per Accord standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14,25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.
F-22	Fire Detection System ( ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 Month after installation.
F-23	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