

INITIAL FIRE SAFETY INSPECTION REPORT

Flamingo Fashions Limited, Unit-2 (Extension)

RSC ID: 24559

ADDRESS: Mariali, Joydebpur, Gazipur.

Geographical Coordinates of factory building: 24.009597, 90.414743

Other Factories: Flamingo Fashions Limited (Unit:2) (ID: 12756)



Inspected By: Mohammad Anayet Hossain, Md. Kamrul Hasan

Date: 16-January-2023

Fire Safety Inspection Report

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Flamingo Fashions Limited, Unit-2 (Extension) complex was surveyed for fire safety on **16/01/2023** 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.

Findings & Recommendations :

Table 1 - summarizes the fire safety non-compliant issues identified (in all structures) 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	The main structural element of the building is constructed by steel element which is non-rated and were found in exposed condition without any fire protection. (Single storied lingerie shed & Three storied EGB steel structure Building)	Interim building shall be type-1 or type-2 construction. 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 BNBC Part 4. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members.	Within 6 months

				
F-2	Fire-Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. (Three storied EGB steel structure Building)	Provide minimum 2-hr fire rated separation in exit enclosures with 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 with similar rating of fire door. 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



F-3	Fire-Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction. Locations: East side accessories sub-store & North side fabric store at single storied lingerie shed; civil storage at single storied molding & civil store shed.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction. Openings shall be protected with minimum ¾ hr. fire protective opening assemblies.	Within 3 months
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F-4	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.	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 2.4 m and maximum area of 23 m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. 2. If sprinkler protected: maximum height of 3.66 m and maximum area of 93 m². Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
  				

F-5	Fire-Rated Construction	The exit discharge path [serving the east side exits of single storied lingerie shed] is less than 10 ft wide and is not separated from the building interior.	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 1-hr fire separation. Alternatively, provide a second remote discharge path to the public way.	Within 3 months
 				
F-6	Fire-Rated Construction	Dining area is not separated from storage and production area. Location: Dining area in the north-west side of single storied lingerie shed.	Re-locate the dining area or separate the dining area from storage areas with 3-hr fire rated construction. And, Separate the dining area by a minimum 2-hr fire-rated construction having a direct access to exit. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months

 				
F-7	Fire-Rated Construction	Boiler room is not properly separated by fire rated construction with other Occupancies/Areas. Location: Second floor- Three storied EGB steel structure Building.	Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr (2-hr for highrise building) fire rated construction (wall, floor, slab etc). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Or Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.	Within 3 months

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F-8	Fire-Rated Construction	Storages were observed underneath the cutting table. Location: Cutting section at at single storied lingerie shed.	Storage underneath the cutting tables shall be kept clear of combustibles at all time, except as provided for miscellaneous storage in accordance with 3.4.2.1.6 or where automatic sprinkler protection is installed. Where an automatic sprinkler system is installed sprinklers are required to be installed beneath cutting tables greater than 4 ft in width that are used for storage of combustibles.	Within 3 months



F-9	Means of Egress	Width of aisles is less than 0.9m (36-in.). (Single storied lingerie shed & Three storied EGB steel structure Building)	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 1 month
F-10	Means of Egress	Width of exit stair is less than 1m (60 inches). (Three storied EGB steel structure Building)	Modify the stair to have a minimum width of 1.5 m (60 inches).	Within 3 months

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F-11	Means of Egress	Uneven path of travel and obstructions observed in the exit discharge. (Locations: North, East & West side Exits of the Single storied Lingerie shed and Exit Stair's discharge path on the ground floor of the Three storied EGB steel structure Building).	Remove the obstructions and level the exit path to the public way.	Within 2 months
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F-12	Means of Egress	Occupant load were not present in the exits of the single storied lingerie shed.	Provide occupant load in every exits.	Within 15 days
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F-13	Means of Egress	Common path of egress travel exceeds 23 meter. Location: Fabric Storage room on the north side- Single storied Lingerie shed.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 meter.	Within 2 months
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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 2 months

				
F-15	Egress lighting (ITM)	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 accordance with the RSC standard. Keep written records on-site.	Within 3 months
F-16	Fire Alarm System	Fire alarm and detection system installation complete which requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit drawing, calculations, equipment certifications and other relevant documentation to the RSC for review and approval, modification (if required) shall have to be done as per the reviewed design, NFPA 72 & RSC standard. & Upon approval & modification (if required) the factory shall verify the system by RSC for final acceptance.	Design within 2 months & Installation within 4 months



F-17	Fire Alarm & Detection System (ITM of FADS)	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 Table-14.3.1 of NFPA 72 and RSC Technical Guidelines (Standard).	Within 1 month after installation
F-18	Fire Protection System (Standpipe)	Standpipe system installation requires detailed review to confirm compliance with NFPA 14, 20, 22 and RSC Technical Guideline (Standard). (Three storied EGB steel structure Building)	Submit the fire pump, standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with RSC Technical Guideline (Standard) and NFPA 14, 20,22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.

F-19	Fire Protection System (ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20 and RSC Technical Guideline (Standard). (Three storied EGB steel structure Building)	Inspect, test and maintain the fire pump in accordance with NFPA 20 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month after installation.
F-20	Fire Protection System (ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 25 and RSC Technical Guideline (Standard). (Three storied EGB steel structure Building)	Inspect, test and maintain the standpipe system in accordance with NFPA 25 and RSC Technical Guideline (Standard) and keep written records on-site.	Within 1 month after installation.
F-21	Fire Protection System (ITM of Extinguisher)	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 on-site, in accordance with NFPA 10 and RSC standards.	Within 2 months