

FIRE SAFETY INSPECTION REPORT

SHAFI KNIT LTD

ACCORD ID: 23395

Natun Para, Baipail (Beside DEPZ-2), Ashulia, Savar, Dhaka. (23.945423,90.2777701)

Other Factories: None



Inspected By: Safawan Abyaz & Pantha Pallob Das

Date: 12 May, 2019

Fire Safety Inspection Report

Factory Name: Shafi Knit Ltd

Summary

Shafi Knit Ltd complex was surveyed for fire safety on 12/05/2019 by The Accord 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 Accord. 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. 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 Accord for approval.



Findings & Recommendations :

Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

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Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	The boiler, generator and substation rooms are not fire separated with fire rated construction barrier or assemblies.	Separate the boiler and compressor rooms by a minimum 1-hr fire-rated construction with 0.75-hr fire rated opening protective assemblies like fire rated door. Similarly separate generator and substation room by a minimum 2-hr fire rated construction with 1.5-hr fire rated opening protective assemblies like fire rated door. Provide proper ventilation and consult a qualified engineer for overall solution. When located to the exterior of a building by at least 3m (10 ft.) distance from surroundings then fire rated construction barrier is not mandatory.	Within 3 months
				



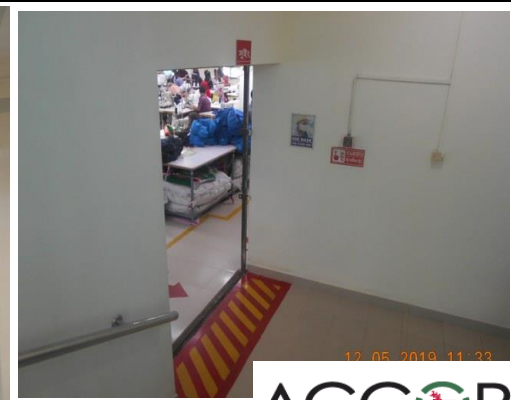
2	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Fabric Store, Wastage Store (Shed 1); Ground floor Bonded Warehouses	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.	Within 3 months
 				



3	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: 1st floor	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m² (250 ft²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (305ft²). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months
				



4	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. [Front Stair, Top floor (Rear Stair): Not enclosed, Unprotected openings]	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 0.75 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. 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. 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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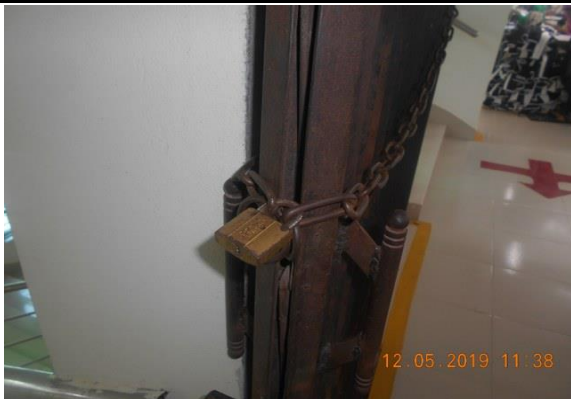
5	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Location: Electrical riser on every floor.	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.	Within 1 months
 				
6	Egress	Collapsible gates/sliding gates are provided at building exits. Location: Exit stairs, Building exits	Replace all collapsible/sliding/shutter type doors & gates by the side-hinged swinging type doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate





7	Egress	Egress doors and gates with locking features are provided at building exits, exit stairs, along egress routes and exit discharge on all floors. All doors and gates were open and unlocked during inspection.	1. Remove all non compliant locking features from egress doors. 2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. 3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. 4. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediate
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8	Egress	The width of egress aisles is less than 36 inch. Location: 1st & 2nd floor	Provide minimum unobstructed aisle width of 36-inch.	Within 3 months
				



9	Egress	Storage/service equipment/electrical panel was located in the exit stair and egress path on every floors.	Remove all storage and other appliances from exit stairs and egress paths.	Immediate
				
10	Egress	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.)..	Within 3 months



				
11	Egress	Building did not have floor designation, stair designation and occupant load signage as per ACCORD Standard.	Provide floor designation, stair designation and occupant load signage at required locations as per ACCORD Standard.	Within 1 month



12	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all floors.	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
13	Egress Lighting	Exit sign was missing at an exit door at ground floor.	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



14	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 1 month
15	Fire Detection and Alarm System	The fire detection and alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire detection and alarm system with a new, listed addressable fire detection & alarm system in accordance with NFPA 72. Design shall be submitted to ACCORD Chief Safety Inspector for review prior to installation of the system.	Design within 4 months and installation within 9 months.



16	Fire Detection and Alarm System (ITM).	Inspection, testing and maintenance (ITM) for the fire detection and alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire detection and alarm system and keep written records on-site, in accordance with NFPA 72.	Within 03 months (After completing installation)
17	Fire Protection System	The highest occupied floor of existing building is more than 10 m (33 ft.) above/below grade but standpipe system is not installed in the building.	Design & install a new class III standpipe system & fire department (Siamese) connection in accordance with NFPA 14. The standpipe system shall be connected to a dedicated fire pump meeting minimum hydraulic demands of NFPA 14 & Accord standard at the required points. Installation of the fire pump shall be as per NFPA 20. Submit the design to Accord for review and approval before installation. Upon approval & installation the owner shall contact the Accord prior to conducting the final acceptance testing of the standpipe system installation.	Design within 4 months and installation within 9 months



18	Fire Protection System (ITM)	Inspection, testing and maintenance (ITM) of the standpipe system is not in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-side, in accordance with NFPA 25.	Within 03 months (After completing installation)
19	Fire Protection System (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.	Within 1 month

