

INITIAL FIRE SAFETY INSPECTION REPORT

Square Denims Limited (Garments Unit)

RSC ID: 24263

ADDRESS: Dubalipara, Zamirdia, Habirbari, Bhaluka, Mymensingh, Bangladesh.

24.296593803927223, 90.37669619279261

Other Factories: None



Inspected By: Mahammad Atick Al Zaman, Md. Ferdaus Jaman and Yusuf Ahmed

Date: 01-November-2021

Fire Safety Inspection Report

Square Denims Limited (Garments Unit)

Introduction:

Square Denims Limited (Garments Unit) was surveyed for fire safety on 1st November, 2021 by The RSC Inspection Team. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this 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. 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

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:

SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas & floors. Location: Ground floor, 1st & 4th floor.	Rooms used for storage of combustible materials shall be separated from the surrounding occupancy with a minimum 1 hour construction.	Within 3 months



2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months
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3	Fire Rated Construction	The exit Enclosures are not separated from other occupancy on each floor by fire rated construction.	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. The clearance under the bottom of a fire door shall be a maximum of 3/4 in. (19 mm). 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. Provide vestibules to separate any storage areas. 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 reentry unless it meets ACCORD standard 6.8.3.1.	Within 3 months
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4	Guard rail	Handrails are not provided on both sides of the exit stair.	Provide handrails on both sides of the exit stair. 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 3 months
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5	Fire Rated Construction	Elevator shaft is not separated by proper fire rated construction (openings, non-rated doors, penetrations)Lift open to floor and elevator shaft near stair 1 & 2.	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal and/or protect all openings to maintain fire separations	Within 3 months
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6	Fire Rated Construction	Boiler or furnace room is not properly separated by fire rated construction with other Occupancies/Areas	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.	Within 3 months
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7	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed.	Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by 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.	Within 3 months
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8	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
9	Directional Sign	Directional signs are not provided where direction of the path of travel to an exit has changed.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 3 months

10	Inspection, testing, and maintenance of Emergency light and Exit Sign	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
11	Fire Alarm & Detection System	Fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Configure the fire alarm system to initiate automatic occupant notification on all floor levels to facilitate whole-building evacuation upon any manual fire alarm station activation. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval; modification (if required) shall have to done as per the reviewed design and standard.	Design within 2 months, installation /modification within 4 months



12	Inspection, Testing, and Maintenance of the Fire Detection & Alarm System	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.	Within 1 month (After installation)
13	Fire Protection	Standpipe system installation requires detailed review to confirm compliance with NFPA 14 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design within 2 months, installation /modification within 6 months
 				

14	Inspection, Testing, and Maintenance of the Fire Protection System	Inspection, testing, and maintenance of the fire pump system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the fire pump system, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month (After installation)
15	Inspection, Testing, and Maintenance of the Fire Protection System	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 ACCORD standards.	Within 3 Months