

FIRE SAFETY INSPECTION REPORT

DENIM ASIA LIMITED

ACCORD ID: 23435

Ratanpur Road, Taltola Shafipur, Kaliakair, Gazipur, Bangladesh. (24.034039, 90.279426)

Other Factories: None



Inspected By: Pantha Pallob Das

Date: 08 January, 2019

Fire Safety Inspection Report

Factory Name: Denim Asia Limited

Summary:

Denim Asia Limited complex was surveyed for fire safety on 08/01/2019 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.

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.



Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction.	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



F-2	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction as the installed fire rated doors were not functional (interfacing didn't work) and there were unprotected openings for one stair.	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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F-3	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 month
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F-4	Fire Rated Construction	Rooms used for combustible storage were separated by fire rated construction but the door openings were not properly protected as the installed fire rated doors were non-functional.	Ensure the functionality of fire rated doors for proper fire separation of store room with adjacent occupancy.	Within 3 months
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F-5	Fire Rated Construction	The boiler, generator, compressor and substation were not fire separated from each other located in the utility shed.	Separate boiler, compressor, substation and generator from each other by fire rated construction with required rating as 2 hr for substation and generator and 1-hr for compressor and boiler. Opening protection shall be 45 minutes for 1-hr and 90 minutes for 2-hr fire separation. When located to the exterior of a building, 3m (10 ft.) separation is required.	Within 3 months
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F-6	Fire Rated Construction	Exit signage was not sufficient along a path of egress. This is typical on all floors.	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
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F-7	Fire Detection and Alarm System	Fire detection and alarm system installation is not complete.	Complete the fire detection and alarm system installation as per NFPA-72. Design shall be submitted to ACCORD Chief Safety Inspector for review prior apply to acceptance testing of the system.	Design review within 2 months and modification within 4 months (if require).
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F-8	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 01 month (After complete installation)
F-9	Fire Protection System	The highest occupied floor of existing building is more than 10 m (33 ft.) above grade where standpipe system is mandatory and installed but the compliance level shall be verified as per relevant Standard.	Submit the standpipe system design to ACCORD for review and modify the system as per recommendation. The equipment shall be listed and 3rd party certified. The installation shall be as per NFPA-14, 20, 22 and 24.	Design submission within 1 month and installation modification within 4 months.



F-10	Fire Protection System (ITM)	Inspection, testing and maintenance (ITM) of 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 01 month (After complete installation)
F-11	Fire Protection System (ITM)	Inspection, testing and maintenance (ITM) of the fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump and keep written records on-side, in accordance with NFPA 25.	Within 01 month (After complete installation)

