

FIRE SAFETY INSPECTION REPORT

NATURAL DENIMS LTD
TONGA BARI, ASHULIA, SAVAR

**OTHER FACTORIES: WASH & WEAR LTD., NATURAL
JEANS TECHNOLOGIES**



ACCORD
on Fire and Building Safety in Bangladesh

July 16, 2014

SUMMARY

Natural Denims Ltd was surveyed for fire safety on 7/16/2014 by Hughes Associates, Inc. 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 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.

Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	The exit stairs are not separated from work areas on each floor by fire-rated construction.	Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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-2	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: 6th floor.	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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F-3	Fire Rated Construction	Rooms used for combustible storage are not separated by fire-rated construction. Location: 4th through 6th floors.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-4	Fire Rated Construction	Hazardous materials / flammable liquid storage area is not separated by fire-rated construction (walls, openings, non-rated doors, penetrations).	Separate the hazardous materials / flammable liquid storage rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
		Location: Chemical room and bleach mixing area on ground floor adjacent to the northeast (#3) stair.		





F-5	Fire Rated Construction	The boiler, generator, transformer, and elevator equipment rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations). Location: The boiler, generator, and transformer rooms are on the ground floor along the east exterior wall. The elevator equipment room is open to the southwest stair (#1) at the roof.	Separate the boiler, generator, transformer, and elevator equipment rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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F-6	Fire Rated Construction	The gas-fired dryer area is not separated by fire-rated construction (walls, openings, non-rated doors, penetrations).	Separate the gas-fired dryers area by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
		Location: Ground floor on west side and near the northwest (#2) exit stair.		



F-7	Fire Rated Construction	The offices under all three stairs are not separated by fire-rated construction (walls, openings, non-rated doors, penetrations). Location: Ground floor under all three (3) exit stairs.	Separate the offices from the stairs by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. Provide minimum 1.5-hr fire rated doors Ensure that the fire doors are self-closing and positive latching. or Remove offices built under the three (3) exit stairs at ground floor.	Within 3 months
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F-8	Fire Rated Construction	The exit discharge path serving the northeast exit 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.	Within 6 months
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F-9	Egress	Egress doors / gates with locking features are provided at building exits, exit stairs, and along egress routes. Location: All floors. All gates/doors were open and unlocked during the inspection.	Remove locking features from all egress doors / gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-10	Egress	Exit capacity is not adequate for the occupant load. Location: The roof has an available occupant load capacity of 400 and a reported load of 500 occupants for the dining and prayer rooms. The 1st floor has an available occupant load capacity of 600 and a reported load of 648.	Reduce occupant load to not more than available exit capacity of 400 on the roof and not more than 600 on the 1st floor.	Immediate
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F-11	Egress	Storage was located in the exit stair. Location: All stairs at all floors.	Remove all storage from exit stairs and egress paths.	Immediate
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F-12	Egress	Collapsible gates / sliding doors and overhead coiling doors are provided at building exits, exit stairs, and along egress routes. Location: All floors.	Replace all gates / sliding doors and overhead coiling doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Within 1 month
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F-13	Fire Protection	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months
F-14	Fire Protection	Inspection, testing, and maintenance for the fire alarm system were 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 3 months
F-15	Fire Protection	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building in accordance with NFPA 72.	Within 6 months
F-16	Egress Lighting	Emergency Evacuation Plans not provided at exit. Location: Northwest (#2) exit stair at all floors.	Provide Emergency Evacuation Plans at exits to the exterior and all doors to the exit stairs.	Within 1 month



F-17	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site.	Within 3 months
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