

FIRE SAFETY INSPECTION REPORT

MAVIS GARMENTS LTD.

**MOUZA - CHANDANA, CHOWRASTA, JOYDEBPUR,
GAZIPUR**



March 15, 2014

SUMMARY

Mavis Garments Ltd. was surveyed for fire safety on 3/15/2014 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 utility room on the ground floor is not separated by fire-rated construction due to openings and no fire-rated doors.	Separate the utility room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months





F-2	Fire Rated Construction	The storage rooms on the ground and first floors are not separated by fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-3	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces 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
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F-4	Fire Rated Construction	The elevator machine room on the seventh floor is not separated by fire-rated construction due to openings and a non-rated door.	Separate the elevator machine room 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-5	Fire Rated Construction	Areas used for combustible storage on factory floors, specifically the first floor, 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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F-6	Egress	Egress doors and gates with locking features are provided at building exits, exit stairs, along egress routes, and at exit discharge at various locations throughout the building. All gates/doors were open and unlocked during the inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101.	Immediate
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F-7	Egress	Storage was located in each exit stair and along exit discharge locations.	Remove all storage from exit stairs, areas of exit discharge, and egress paths.	Immediate
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F-8	Egress	Collapsible gates are provided at building exits, exit stairs, along egress routes, and at exit discharge at various locations throughout the building.	Replace all gates / sliding 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-9 Egress

Not all elevators have signage stating "If There is a Fire Keep the Lifts Closed."

Provide signage stating "If There is a Fire Keep the Lifts Closed" on the exterior of all elevators.

Within 3 months



F-10	Egress	Both exit stairs discharge inside the building on the ground floor to areas with storage.	East Stair: Provide a 2-hour fire-rated passageway leading directly outside. No storage shall be permitted within passageway. West Stair: Eliminate all storage located along the egress path from the bottom of the stairway to the exit passageway discharge location (uncovered drive north of the building). Modify the west exterior building wall to meet 2-hour fire resistive rating requirement including 90-minute opening protectives. Additionally, provide a vestibule at the west entrance to the storage warehouse such that the vestibule is separated from the storage room by 1 hour construction, and the exit passageway is separated from the vestibule by 2 hour construction.	Within 6 months
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F-11	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
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F-12	Fire Protection	The high-rise building has an occupied floor greater than 23m (75 ft) and is not provided with automatic sprinkler protection. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.	Provide automatic sprinkler protection throughout the building in accordance with NFPA 13.	Design within 6 months, install within 12 months
F-13	Fire Protection	Activation of the fire alarm system by a manual fire alarm activation point provides automatic occupant notification only on the floors occupied by the factory and not throughout the building.	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.	Within 1 month
F-14	Fire Protection	Inspection, testing, and maintenance records for the fire alarm system were not available.	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.	Replace the single-station smoke alarms with automatic smoke detectors tied into the fire alarm system. Configure the fire alarm system to initiate occupant notification upon activation of any two smoke detectors in addition to the manual fire alarm stations.	Within 6 months



F-16	Egress Lighting	Emergency lighting did not function under normal operating conditions due to missing or burnt out bulbs in both stairwells.	Regularly test the emergency lighting system on each floor and replace/repair lights as needed.	Within 1 month
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