

FIRE SAFETY INSPECTION REPORT

**MANAMI FASHION LTD.
KABIRPUR, ASHULIA, SAVAR**

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

Bangladesh Accord
Foundation

April 16, 2014

SUMMARY

Manami Fashion Ltd. was surveyed for fire safety on 4/16/2014 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 | Unsealed penetrations and openings are located on the ground floor of the south western exit stair enclosures. | Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation. | Within 3 months |

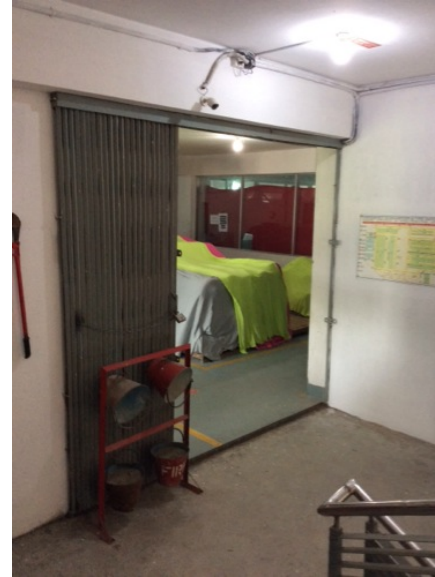


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| F-2 | Fire Rated Construction | The bonded warehouse and other associated storage areas on the ground floor has unsealed penetrations and lacked fire rated doors. The fabric and accessory store on the second floor was not segregated from the production areas via fire rated construction. The makeshift fabric store of the cutting section on the second floor also exceeds the recommended limits. | 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 23m ² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m ² 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 | 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 |
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| F-4 | Fire Rated Construction | The storage area in the single storied shed are not segregated by fire rated construction and interferes with the egress paths of the dining and child care areas. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
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| F-5 | Fire Rated Construction | The generator and transformer room in the utility shed is not separated from the working areas by fire-rated construction (unprotected openings). | Separate the generator and transformer room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separation. | Within 3 months |
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| F-6 | Fire Rated Construction | Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies. Eg: Near the newly installed utility shaft on the second floor | Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level. | Within 3 months |
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| F-7 | Egress | Egress doors / gates with locking features are provided at building exits, exit stairs, along egress routes and in exit discharge on all the floors. | 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 |
| | | All the doors were found to be open during the inspection session. | | |



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| F-8 | Egress | Collapsible gates / sliding doors are provided at all building exits, exit stairs, and in exit discharge points. | 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 | On the ground floor the northern exit stairs discharges into the production and transient storage areas. | Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Alternatively provide sprinkler protection for discharge floor in accordance with NFPA 13. | Within 3 months |
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| F-10 | Egress | The day-care room does not have direct access to an exit. The discharge has to take place through the one storied storage area. | Provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit gate. | Within 3 months |
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| F-11 | Fire Protection | The fire alarm system in the main building 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-12 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system was 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. | Design within 4 months, install within 9 months |
| F-13 | 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 |



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| F-14 | Egress Lighting | Some of the exit signs were in a position such that the most immediate exit access was not evident. Eg: On the second floor the exit signs pointed into the storage areas. | Replace all intermediate exit signs with directional signage such that the most immediate exit egress path is known. | Within 3 months |
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