

FIRE SAFETY INSPECTION REPORT

Meek Sweater & Fashions Ltd.

ACCORD ID: 23161

Plot Np: 1693, Bashon Sarak, Gazipur (23.973789,90.374398).

Other Factories: None



ACCORD
on Fire and Building Safety in Bangladesh

Inspected By: Pantha Pallob Das & Md. Tarif Raihan

Date: 13 May, 2018

Fire Safety Inspection Report

Meek Sweater & Fashions Ltd.

Summary:

Meek Sweater & Fashions Ltd. complex was surveyed for fire safety on 13/05/2018 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.



SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction, as the installed fire rated doors were not credible and functional as well. Location: Linking distribution store on 5th floor and Knitting distribution store on 1st floor.	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. The fire rated door shall be maintained functional all time.	Within 3 months



F-02	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: 3rd and 4th floor of the building.	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
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F-03	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction, as the fire rated doors were not credible.	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-04	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-05	Fire Rated Construction	The exit discharge path/egress court for east and north stairs are less than 10 ft. wide but 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 2-hr fire separation.	Within 3 months
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F-06	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes on top two floors.	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles.	Within 3 months
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F-07	Egress Lighting	Exit sign provided at every exit but no directional exit signage provided inside of any floor.	Illuminated exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
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F-08	Fire Detection and Alarm System	The addressable fire detection and alarm system is installed for the building but the compliance level shall be verified as per relevant Standard.	Submit the Fire Detection and Alarm system design to ACCORD for review and modify the system as per the recommendation. The equipment shall be listed and 3rd party certified. The installation shall be as per NFPA -72.	Design submission within 1 month and installation modification within 4 months.
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F-09	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 Chapter-14 of NFPA 72 (2013).	Within 01 month (After complete installation)
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F-10	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 if required. 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.
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Table-2: Building-2 (Warehouse Building)

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction, as the installed fire rated doors were not credible and functional as well. Location: 1st to 3rd floors.	Provide minimum 1.5 hr. fire rated door and seal all penetrations and openings by similar rating. The fire rated door shall be maintained functional all time.	Within 3 months



F-02	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction, as the fire rated doors were not credible and functional. Moreover, some unprotected openings in the fire walls and secondary occupancy inside of one stair enclosure without fire separation were available.	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-03	Egress	Single exit facility provided for 1st, 2nd and 3rd floors which does not comply the Standards.	Provide another exit to comply the Standards.	Immediately
F-04	Egress	Common path of travel exceed 23 m in the prayer section on 4th floor.	Provide at least one more exit door to limit the common path of travel within 23 m.	Within 3 months



F-05	Egress Lighting	Exit sign not provided at every exit . Location: 5th floor of building-2.	Illuminated exit signs shall be placed at entrance to an exit. Additional exit signs shall be placed throughout the facility anywhere the continuation of the egress is not obvious. Illuminated exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
				



F-06	Fire Detection and Alarm System	The addressable fire detection and alarm system is installed for the building but the compliance level shall be verified as per relevant Standard.	Submit the Fire Detection and Alarm system design to ACCORD for review and modify the system as per the recommendation. The equipment shall be listed and 3rd party certified. The installation shall be as per NFPA -72.	Design submission within 1 month and installation modification within 4 months.
				
F-07	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 Chapter-14 of NFPA 72 (2013).	Within 01 month (After complete installation)



F-08	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 if required. 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.
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