

FIRE SAFETY INSPECTION REPORT

Bela Fashions Limited

ACCORD ID: 23417

6, Shing Bari Road Boro Dewra Tongi, Gazipur-1700.

Other Factories: None



Inspected By: Pantha Pallob Das

Date: 15th July , 2018

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-01	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction. Both buildings.	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





F-02	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location: Ground & 1st floor of main 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.	Within 3 months
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F-03	Fire Rated Construction	Gas cylinders located adjacent medical center without proper fire separation.	Remove or separate the gas cylinder on a dedicated storage room by a minimum 3-hr fire-rated construction with protected ventilation system with at least 3-hr fire rating.	3 Months
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F-04	Fire Rated Construction	Areas used for combustible storage open to the factory are not separated by fire rated construction. Location: Ground 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-05	Fire Rated Construction	The exterior exit stair is not separated from the building. Location: Office cum Utility building.	Exterior exit stairs shall be separated by minimum 2-hr fire-rated construction and The rating of the exterior wall shall extend 3.05 m (10 ft.) beyond the ends of the stair structure. Provide minimum 1.5-hr fire rated doors to separate the exit stairs from work areas and other building spaces on all floor levels. Ensure that the fire doors are self-closing, 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-06	Fire Rated Construction	Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies (Electrical Riser).	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation.	Within 1 months
				
F-07	Fire Rated Construction	Exit passageway is not separated by fire rated construction for any of the stairs, all the stairs discharge directly on ground floor without fire separation.	Separate the exit passageway (ceiling, floor, wall etc.) by 1- hr. fire-resistance rated construction and shall terminate at an exit discharge.	Within 3 months

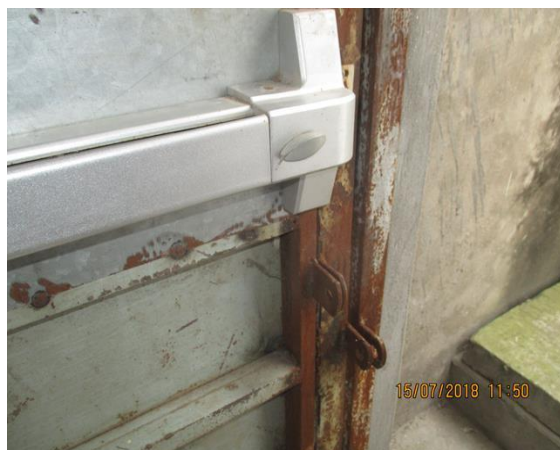




F-08	Egress	Single exit provided on 2nd and 3rd floor of Utility cum Office building.	Provide another exit for safe evacuation.	Within 3 months
F-09	Egress	Aisles found obstructed during inspection.	Provide minimum unobstructed aisle widths of 36-in.	Immediate



F-10	Egress	Exit capacity was not adequate for the occupant load on the 1st floor of main building. The 1st floor has 662 occupants where the exit capacity is 641 occupants.	Reduce occupant load to not more than available exit capacity or provide additional exit (s).	Immediate
F-11	Egress	Egress doors and gates with locking features are provided at building exits, exit stairs, along egress routes and exit discharge on all floors. All doors and gates were open and unlocked during inspection. Location: All the exit doors.	Remove all non compliant locking features from egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediate



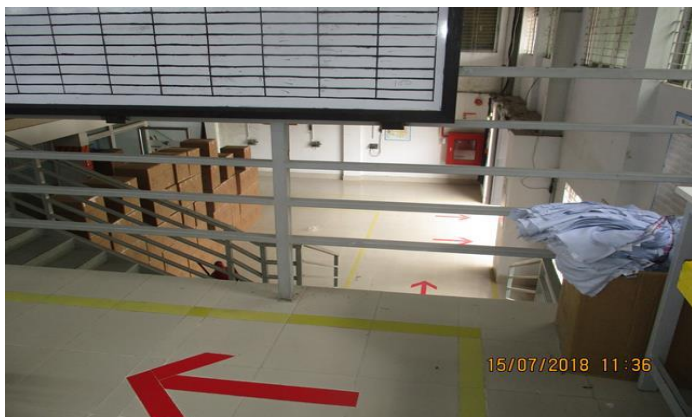
F-12	Egress	Headroom measured less than the 80 inch.	All means of egress shall have a minimum ceiling height of 2.3 m (7 ft 6 in.) with projections from the ceiling not less than 2.03 m (6 ft 8 in.). The minimum ceiling height shall be maintained for at least 2/3 of the space or room as long as the remaining area shall be not less than 2.03 m (6 ft 8 in.). Headroom on stairs shall not be less than 2.03 m (6 ft 8 in.).	Within 2 months
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F-13	Egress	Abrupt changes of elevation along the means of egress noted during inspection.	Abrupt changes in elevation of walking surfaces shall not exceed $\frac{1}{4}$ in. unless provided with a beveled slope of 1 in 2 that do not exceed $\frac{1}{2}$ in. Changes greater than $\frac{1}{2}$ in. shall meet the requirements for 6.3.5 (Changes in Level. Changes in level exceeding 535 mm (21 in.) in elevation shall meet the requirements for stairs in 6.9 or ramps in 6.10.) Walking surfaces shall be mostly level; however, shall not exceed a slope of 1 in 20 in the direction of travel	1 Month
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F-14	Egress	Building did not have stair designation signs and occupant load signs at required locations on all floors	Provide stair designation signs and occupant load signs at required locations.	Within 1 Month
F-15	Egress	Storage was located in the exit stair	Remove all storage from exit stairs and egress paths.	Immediate



F-16	Egress	Evacuation map is not posted at the entrance of all exit stairs.	Evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-17	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on all 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



F-18	Egress Lighting	Exit sign not provided at every exit and other required location.	Lighted 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. Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.	Within 1 month
F-19	Egress Lighting	Manual on-off switch is provided for emergency lighting / exit signage units.	Remove manual on/off switches from emergency lighting / exit signage units to prevent them from being switched off.	Within 1 month
F-20	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 1 month



F-21	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-22	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-23	Fire Protection System (ITM)	Inspection, testing and maintenance of portable fire extinguishers is not in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 1 month



F-24	Human Element Program	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month
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