

FIRE SAFETY INSPECTION REPORT

KAC Fashion Wear Ltd. (Extension)

Factory ID: 24206

12/13 Tetui Bari, Sarabo, Gazipur

23.9769326, 90.2594212

Other Factories: None



Inspected by: Md. Rakibul Alam & Sadid Rahman

Date: 14 September 2021



Fire Safety Inspection Report

KAC Fashion Wear Ltd. (Extension)

Summary

KAC Fashion Wear Ltd. (Extension) complex was surveyed for fire safety on 14 September 2021 by The RSC 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 RSC. 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 RSC for approval.



Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-1	Fire Rated Construction	Proper certification was not available for fire rated doors installed in the factory on each floor for both exit stairs.	Submit proper certifications for installed fire doors to the RSC for approval. If not available, or certification is not approved, install new, properly certified fire rated doors in accordance with RSC direction.	Within 1 month
				
F-2	Fire Rated Construction	Room on the 2 nd floor used for combustible storage is not separated by a minimum 1-hr fire-rated construction. (Fashion-2 building)	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 2 months





F-3 Fire Rated Construction

Unsealed electrical shaft is located in the fire-rated floor/ceiling assemblies.
(Both Building)

Provide a minimum 2-hr fire-rated shaft to separate the utility risers from each floor level and seal all penetrations in floor/ceiling assemblies to maintain the fire separation.

Within 3 months



F-4	Fire Rated Construction	Areas on the 2nd and 4th floor used for combustible storage open to the factory are not properly defined and/or not within limits. (Fashion-3 building)	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45m (8 ft) and maximum area of 23 m² (250 ft²). If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m² (1000 ft²). Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).	Within 3 months
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F-5	Fire Rated Construction	Electrical cable tray / channels are located in exit stair enclosures. (Both building)	Penetration is prohibited into and through an exit enclosure. Re-route the cable raceway to comply Accord 6.14.4. Seal all penetrations and openings in exit stair enclosure walls to maintain the required fire separation.	Within 3 months
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F-6	Fire Rated Construction	The exit discharge path serving the S-E exit is less than 10 ft wide and is not separated from the building interior. (Fashion-3 building)	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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 3 months
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F-7	Fire Rated Construction	Exterior exit stair is not properly separated from the building. (Dormitory building)	Exterior exit stairs shall be separated from the building with a rating requirement of 1 hr fire rating for 3 or fewer stories or 2 hr fire rating for 4 or more stories. The rating of the exterior wall shall be extended 10 ft beyond the ends of the stair structure.	Within 4 months
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F-8	Egress	Exit capacity is not adequate for the occupant load. Fashion-2 building, available capacity 504 and occupant load is. 720 at roof top dining. (Sitting capacity)	Reduce occupant load to not more than available exit capacity (504). Provide additional exits in the future to increase exit capacity.	Within 1 month
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F-9	Egress	Storage was located in the exit stair.	Remove all storage from exit stairs.	Within 2 weeks
Both building				



F-10	Fire Protection	Fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Within 2 months
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F-11	Fire Protection	Inspection, testing and maintenance of the automatic fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the automatic fire alarm system and keep written records on-site, in accordance with NFPA 72.	Within 1 month
F-12	Fire Protection	The buildings has an occupied floor greater than 10m (33 ft) and is not provided with standpipe system protection.	Provide standpipe system protection throughout the building in accordance with NFPA 14 and ACCORD standards.	Design within 2 months Install within 4 months
F-13	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the fire standpipe system and keep written records on-site, in accordance with NFPA 14.	Within 7 months
F-14	Fire Protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 20.	Within 1 month



F-15	Fire Protection	The fire pump set installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval/acceptance test.	Within 2 months
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F-16	Egress	Occupiable roof is not provided with an adequate parapet / guard rail. (Fashion-2 building)	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
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F-17	Egress Lighting	Exit signage not illuminated (burned out, broken, etc.). (All building/shed)	Regularly inspect all exit signage and replace/install lights as needed to illuminate signs. The source of illumination shall provide not less than 50 lux at the illuminated surface with a contrast of not less than 0.5. Approved self-luminous signs which provide evenly illuminated letters having a minimum luminance of 0.2 cd/m ² may also be used.	Within 1 month
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F-18	Egress Lighting	Exit signage was not provided at all the exits / along the path of egress / in a readily visible location. (All building/shed)	Provide exit signs above all building exits to the exterior, all doors to the exit stairs and along all paths of travel where a change of direction is not obvious.	Within 1 month
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F-19	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with ACCORD standards.	Inspect, test and maintain the emergency lighting system in the accordance with ACCORD standards. Keep written records on-site.	Within 1 month
F-20	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. (All building/shed)	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 1 month





F-21	Egress	Buildings did not have stair designation sign, occupant load sign & floor level signs at required locations.	Provide occupant load sign, stair & floor designation signs at required locations.	Within 1 month
F-22	Fire Protection	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 on-site, in accordance with NFPA 10.	Within 1 month
F-23	Egress	Width of exit stairs is less than 1.5 m (60 in.) (All 3 stairs, Fashion-2). N-E stair 55 in., S-E stair 55 in., S-W stair 49 in.	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with Accord standard 6.5.6.2.1.	Within 4 months



F-24	Fire Rated Construction	The fire pump room is not provided with adequate fire separation. Ground floor of pump house building using as fabric storage.	Provide fire pump room with 2-hr rated fire separation when not sprinklered and 1-hr rated fire separation when provided with automatic sprinklers, in accordance with NFPA 20.	Within 3 months
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F-25	Egress	Exit discharge path is not slip resistant due to waterlogging also not smooth and leveled surface. (Fashion-2, Fashion-3, Washing, Dyeing and Godown shed)	Level the exit discharge path to ensure smooth and safe evacuation and ensure that the path is slip resistant.	Within 1 month
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F-26	Fire Rated Construction	Electrical panel was located in the exit stair enclosure at Fashion-3.	Remove and re-locate all electrical panels from exit stair enclosures.	Within 2 months
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F-27	Egress	Egress aisles were not provided at ground and 3rd floor storage.	Reconfigure the storage arrangement to confirm unobstructed and clear 36-inch width.	Within 1 month
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F-28	Fire rated Construction	The newly constructed Washing, Yarn Dyeing, Accessories, Godown, Canal sheds are steel construction which appears to be nonrated and were found in exposed condition.	New construction shall be Type-1 or Type-2 construction in accordance with Accord standard 3.5.2.1 and BNBC Part-2, Table-3.2.4. Ensure fire resistive rated construction following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC Part 4. Consult a qualified fire protection engineer to achieve the required fire rating Chemical storage buildings shall be Type-1 construction.	Within 6 months
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