

FIRE SAFETY INSPECTION REPORT

Kaizer Knitwears Ltd.

ACCORD ID: 12389

Nayapara, Kashimpur, Gazipur

23.990159, 90.316697

Other Factories: None



Inspected by: Md. Rakibul Alam, Md. Abidur Rahman & Md. Tarif Raihan

Date: 21 May 2018



Summary

Kaizer Knitwears Ltd. complex was surveyed for fire safety on 21 May 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 of the building Part-A. 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	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction due to unprotected openings and penetrations.	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 2- hr fire-rated construction. Provide minimum 1.5- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system. Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with re-entry unless it meets ACCORD standard 6.8.3.1.	Within 3 months





F-2 Egress Egress gates on the all floor with locking features are provided at all exits & exit discharge.

Remove locking features from all egress gates.

Immediately

If locks are required for security reasons, utilize special door locking features complying with ACCORD standard 6.8.2.



F-3	Fire Rated Construction	Temporary storage area on Part-B is not properly separated from Part-A by a minimum 1-hr fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Seal all openings to maintain the required fire separation.	Within 3 months
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F-4	Fire Rated Construction	Unsealed electrical shaft is located in the fire-rated floor/ceiling assemblies.	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
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F-5	Fire Rated Construction	The boiler, generator and compressor is not separated by fire-rated construction from each other and from wastage storage at the ancillary shed.	Separate the boiler, generator and compressor room by a minimum 2-hr fire-rated construction for high rise, Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer.	Within 3 months
If applicable: When located to the exterior of a building, separate those rooms by a minimum distance of 3m (10 ft).				



F-6	Fire Rated Construction	Areas on the ground and 1 st floor used for combustible storage open to the factory are not properly defined and/or not within limits.	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-7	Fire Rated Construction	South-west exit stair discharge lobby is not protected from ground and mezzanine floor.	Seal all penetrations and openings in exit stair discharge lobby to maintain the required fire separation of the means of egress and stair discharge path.	Within 3 months
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F-8	Egress	Collapsible gates, sliding doors and roll down shutter type doors are provided at the building exits, exit stairs, along egress routes and exit discharge.	Replace all gates, sliding Doors and rolling shutters 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	Fire Protection	The fire detection and alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire detection and alarm system with a new, listed addressable fire detection and alarm system in accordance with NFPA 72 and ACCORD standards.	Design within 3 months Install within 9 months
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F-10	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 (after installation).	Within 1 month
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F-11	Fire Protection	The existing building has an occupied floor greater than 10 m (33 ft) and is not provided with standpipe system protection.	Provide a listed standpipe system throughout the building in accordance with NFPA 14, NFPA 20 and ACCORD standards.	Design within 3 months Install within 6 months
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F-12	Fire Protection	Inspection, testing and maintenance of the standpipe system is not in accordance with NFPA 14.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 14 (after installation).	Within 1 month
F-13	Fire Protection	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 (after installation).	Within 1 month
F-14	Egress	The width of egress aisles is less than 36-in. At all floors.	Provided egress aisles with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months





F-15 Egress

Handrails are not provided on both sides of both exit stairs.

Provide handrails on both sides of the exit stair. New handrails shall have a minimum height of 865 mm (34 in.) and a maximum height of 965 mm (38 in.) as measured from the leading edge of the tread. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.)

Within 3 months



F-16	Egress	Occupiable roof is not provided with an adequate parapet / guard rail.	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	Manual on-off switch is provided for emergency lighting and exit signage units.	Remove manual on/off switches from emergency Lighting & exit signage units to prevent them from being switched off.	Within 1 month
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F-18	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 3 months
F-19	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.	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-20	Egress	Building 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-21	Egress	Storage was located in the exit stairs, aisles and means of egress at different floors.	Remove all storage from exit stairs, aisles and all means of egress.	Immediately





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	Fire Rated Construction	Liquefied or compressed gas cylinders are located within the factory.	The storage or use of liquefied or compressed flammable gas cylinders shall be prohibited within the factory building.	Immediately





F-24 Egress

Exits are not remotely located from each other such that a single fire event could compromise both exits.

Modify exit arrangement to meet ACCORD standard section 6.6.6.

Or

Provide additional exit(s) to meet ACCORD standard section 6.6.6.

Or

Provide sprinkler protection in accordance with NFPA 13 to meet ACCORD standard section 6.6.6.

Within 6 months

