

FIRE SAFETY INSPECTION REPORT

Knit Horizon Ltd.

ACCORD ID: 12524

Holding-36/1, Block-E, Boherarchala, Sreepur, Gazipur

24.200110, 90.400675

Other Factories: None



ACCORD
on Fire and Building Safety in Bangladesh

Inspected by: Md. Rakibul Alam & Mohd Atick Al Zaman

Date: 28 December, 2016



ACCORD
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Summery

Knit Horizon Ltd. complex was surveyed for fire safety on 28 December, 2016 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.



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.	<p>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.</p> <p>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.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p>	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	Room on the ground floor used for combustible storage is not separated by a minimum 1-hr fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-4	Fire Rated Construction	The boiler room on the 4 th floor is not separated from the exit stair by fire-rated construction.	Separate the boiler room by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer. If applicable: When located to the exterior of a building, separate the boiler by a minimum distance of 3m (10 ft).	Within 3 months
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F-5 Fire Rated Construction

Areas on the ground, 3rd and 4th 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:

Within 3 months

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).





F-6 Fire Rated Construction

The generator room, sub-station room and transformer room on the ground floor is not separated by fire rated construction.

Separate the generator room, sub-station, and transformer room by a minimum 2-hr fire rated construction. Seal or/and protected all non openings and penetrations to maintain the required rating.

Within 3 months



F-7	Fire Rated Construction	Generator and sub-station room and at ground floor discharges directly into the exit stair discharge.	Openings from exit enclosure to sub-station, generator and transformer spaces shall be provided with a vestibule with fire rated construction and openings. Provide a 1.5 hr. fire rated door on the exit stair side and a 1-hr. fire rated door on the generator, sub-station room side. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure.	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	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
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F-10 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



F-11	Egress	Storage was located in the exit stairs.	Remove all storage from exit stairs and egress paths.	Immediately
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F-12	Egress	Building did not have stair designation sign and occupant load sign at required locations.	Provide occupant load signs and stair designation signs at required locations.	Immediately
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F-13	Fire Protection	The 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 ACCORD for review and approval.	Design within 1 month Modify within 6 months (If required)
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F-14	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 3 months
F-15	Fire Protection	Standpipe system is required for the building, which has an occupiable floor 10 m (33 ft) or more above grade.	Install a new class III standpipe system in accordance with ACCORD standard 5.4 and NFPA 14.	Design within 3 months Install within 6 months
F-16	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.	Within 1 month (after installation)



F-17	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
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F-18	Egress Lighting	Some lighted exit signs were two-sided, so that they indicated an exit where there were none. At various locations.	Insure that lighted exit signs are only visible from the side that directs people toward an exit path.	Immediate
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F-19	Egress Lighting	Exit sign not provided at office exits.	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
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F-20	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
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F-21	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
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