

INITIAL FIRE SAFETY INSPECTION REPORT

Alliance Knit Composite Ltd

RSC ID: 24255

ADDRESS: Holding-08/118, Pukurpar, Ashulia, Savar, Dhaka

23.9099691,90.3117666

Other Factories: None



Inspected By: Ahammad Kabir & Yusuf Ahmed

Date: 08-November-2021

Findings & Recommendations :

Table 1 - summarize the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline.

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 & Recommendations for Main Building and Utility Building.

Sl No.	Category	Findings	Required Action	Remediation Time Frame
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F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction. Location: Main Building and Utility Building.	Provide minimum 2-hr fire rated separation exit enclosure. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels. The clearance under the bottom of a fire door shall be a maximum of 19mm. 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. Openings from exit enclosure to storage 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 storage 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-2	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction. Location: Main building: Dyes store, Finished fabric stores. Yarn store, Gray fabric store.	Separate the storage room by a minimum 1- hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months



F-3	Fire Rated Construction	Dining room located on the fifth floor providing exits in front of the storeroom.	Separate the dining and prayer area by a minimum 2-hr fire rated construction having a direct access to exit stair or directly outside & Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas) for the secondary exit. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
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F-5	Fire Rated Construction	Areas used for combustible storage are not separated by fire-rated construction. Location: 5th floor, main building.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m	Within 3 months
				

F-6	Fire Rated Construction	The boiler is not separated by fire rated construction by openings to the storage. Location: Utility building.	Separate the boiler room by a minimum 2-hr fire rated construction (for high rise building)/ 1-hr fire rated construction (for low rise building). Seal and/or protected all openings to maintain fire separations.	Within 3 months
				
F-7	Fire Rated Construction	Exit stairs do not discharge the occupant directly to the outside	Modify stair to discharge directly outside. Or Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). Or Provide sprinkler protection for discharge floor in accordance with NFPA 13.	Within 3 months

				
F-8	Fire Rated Construction	Elevator shafts are open into production floor and exit stair enclosure without proper fire separation. Location: Main building.	Elevators shall not open into an exit enclosure as per ACCORD-6.14.3. Separate the stair enclosure from elevator shaft of the building. or Modify/Separate the elevator and stair enclosure arrangement in a way to satisfy Accord building standard 6.14.3 and 4.5.3.	Within 3 months
				

F-9	Means of Egress	Width of aisles is less than 0.9m (36-in.) or not marked properly at several floors.	Aisles shall be provided with a minimum unobstructed clear- width of 0.9m (36 in).	Within 1 month
				
F-10	Means of Egress	Handrails are not provided on both sides of the exit stair. Height of handrail is less than 34 inch. Location: Main building & New utility building	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-11	Means of Egress	Building did not have stair designation signs or occupant load signs at the required locations. Location: Main building	Provide stair designation signs and occupant load signs at the required locations.	Within 1 month
				
F-12	Means of Egress	Storage was located on the egress path on 5th floor, 2nd floor, 1st floor. Location: Main building	Keep egress path and stair clear of storage.	Immediately



F-13

Means of Egress

Non complaint locking features were present in the building exits along exit discharge.

Remove locking features from all egress doors/gates. If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.

Immediately



F-14	Means of Egress	The exit discharge path is less than 10 ft. wide and is 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 1-hr fire separation.	Within 3 months
				

F-15	Means of Egress	Parapets or guards are not provided at some locations. Parapet provided on the roof is less than 42 inch and improper. Location: Main Building	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				

F-16	Egress lighting	Exit signs are not provided at several locations on 3rd floor. Location: Main building	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-17	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 provide adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and exit discharge paths and minimum 2.5 lux along exit access aisles.	Within 3 months

				
F-18	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-19	Fire Alarm & Detection System (FADS)	The building is equipped with single-station smoke alarms on 3rd, 4th and 5th floors. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupant.	Remove single-station smoke alarms. Provide automatic smoke detection throughout the building, tied into the fire alarm system, in accordance with NFPA 72.	Design within 2 months, Install within 4 months.
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F-20	Fire Alarm & Detection System (FADS)	The Required Fire Alarm system is not installed in accordance with the ACCORD standard and NFPA-72. Location: Main building & new utility building	Design & Installation of Fire Alarm system shall be in accordance with ACCORD standard and NFPA 72. Submit design, documents and calculations to RSC for review prior installation/modification. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & alarm system installation. Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Design within 2 months, Install within 4 months.
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F-21	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 Month after installation.
F-22	Fire Protection System(Standpipe)	The required standpipe system is not installed in accordance with the ACCORD standard and NFPA- 14, 20, 22 and 24. Location: Main building and utility building	Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14, 20, 22 and 24. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the standpipe system.	Design within 2 months, Install within 4 months.
F-23	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per Accord standard.	Inspect, test and maintain the standpipe system in accordance with NFPA 14, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.

F-24	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months
F-25	Fire Protection System(ITM of fire pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump in accordance with NFPA 20, 25 or as per Accord standard and keep written records on-site.	Within 1 Month after installation.