

FIRE SAFETY INSPECTION REPORT

Kentucky Knit Composite Ltd.

ACCORD ID: 12907

**Address: Rotondi, Baranagar, Mugrapara, Sonargaon, Narayanganj.
(23.645589, 90.588454)**

Other Factories: None



Inspected By: Nirmal Chandra Sinha

Date: 12 December 2017

Fire Safety Inspection Report

Factory Name: Kentucky Knit Composite Limited

Introduction:

Kentucky Knit Composite Limited complex was surveyed for fire safety on 12 December 2017 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

SI No.	Category	Finding	Recommendation	Remediation Time Frame
F-1	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction on ground and first floors.	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 2.45m (8ft.) and maximum area of 23m ² (250 ft ²) - If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m ² (1000 ft ²) Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).	Within 3 months



F-2	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction on ground, first and 2nd floors.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
				
F-3	Fire Rated Construction	Unsealed electrical shafts are located in the fire-rated floor/ceiling assemblies throughout the 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	<p>The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction.</p>	<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 for buildings that are 4 or more stories. Seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels.</p> <p>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.</p> <p>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.</p>	Within 3 months
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F-5	Fire Rated Construction	Generator, substation and Compressor are not separated by fire rated construction from each other. Boiler room is not separated by fire rated construction from shed-2.	Separate the compressor, substation, generator and boiler room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations. Provide proper ventilation and consult a qualified engineer.	Within 3 months
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F-6	Fire Rated Construction	2 nos elevator shaft are not separated from work areas and other spaces on each floor by fire rated construction.	Separate the elevator shafts from work place by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 3 months
				
F-7	Fire Rated Construction	Dining areas are not separated by fire rated construction from store and work areas on first floor.	Separate dining areas by a minimum 2-hr fire rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months





F-8	Fire Rated Construction	Liquefied or compressed gas (CNG) cylinders were located on the egress path and not separated by fire-rated construction on ground floor.	Separate the CNG cylinders by a minimum 2-hr fire-rated construction. Seal and/or protect all openings to maintain the required fire separations. Remove all hazardous material from egress route.	Within 3 months
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F-9	Fire Rated Construction	Hazardous materials / flammable liquid (diesel drum) were located on ground floor inside generator room and are not separated by fire-rated construction.	<p>Remove hazardous materials / flammable liquid (diesel drums) from generator room.</p> <p>OR</p> <p>Separate the hazardous materials / flammable liquid storage room by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.</p>	Within 3 months
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F-10	Egress	Egress doors /gates with locking features are provided along egress routes at building exits, exit stairs and exit discharge. All doors were not open and unlocked during the inspection.	Remove locking features from all egress doors and gates. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 and ACCORD standard 6.8.2.	Immediately
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F-11	Egress	Collapsible and rolling shutter doors are provided at building exits and along egress routes.	Replace all non compliant (collapsible, shutter and sliding) doors/gates 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 in accordance with ACCORD standard 6.8.1.	Within 1 month
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F-12	Egress	Storage was located in the egress path and exit stair enclosure on ground floors.	Remove all storage from exit stairs and egress paths.	Immediately
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F-13	Egress	The day-care room does not meet ACCORD standard 3.4.2.1.1. Located at 1st floor.	<p>Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft.) or located one story above level of exit discharge with direct access to an exit enclosure.</p> <p>If the above is not possible provide a minimum 2-hr fire-rated exit corridor between the day-care room and exit stair with ACCORD approval.</p>	Within 3 months
				
F-14	Egress	The width of egress aisles is less than 36-inch on several floors.	Provide minimum aisle widths of 36-inch.	Within 3 months






F-15	Egress	Building did not have stair designation signs at floor entrances and occupant load signs at required exit stair entrances.	Provide stair designation signs, occupant load signs and emergency evacuation plans at required locations.	Immediately
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F-16	Egress	Handrails are not provided on both sides of the exit stair/ramp.	Provide handrails on both sides of the exit stair and ramp. 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-17	Egress	There was no parapet in the main building on roof.	Provide parapets or guards for all occupied roofs of a minimum height of 1067 mm (42 in.) as required.	Within 3 months





F-18	Fire Protection	The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.	Design within 4 months, install within 9 months
				
F-19	Fire Protection	Inspection, testing, and maintenance for the fire alarm system were not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month (after installation)
F-20	Fire Protection	The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants.	Remove single station smoke alarms. Provide automatic smoke detection throughout the building in Accordance with NFPA 72.	Design within 4 months, install within 9 months



F-21	Fire Protection	The required standpipe system is not installed in accordance with the ACCORD standard.	Install a new standpipe system in accordance with ACCORD standard 5.4 and NFPA 14. A class III system shall be installed in buildings with the highest occupiable floor 10 m (33 ft.) above grade or more. A class I system shall be permitted in buildings protected throughout by an approved automatic sprinkler system.	Design within 4 months, install within 9 months
<div style="display: flex; justify-content: space-around;">   </div>				
F-22	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-23	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 onsite, in accordance with NFPA 10.	Within 3 months





F-24	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
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F-25	Egress Lighting	Manual on-off switch is provided for emergency lighting / exit sign units on all floors.	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-26	Egress Lighting	Exit signage available at all exits but directional signage not provide as required to get the proper guidance during emergency.	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-27	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 3 months
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Kentucky Knit Composite Ltd
Dhaka, Bangladesh

Daily Electrical Maintenance Check List

সিস্টেম নাম	বিভাগ	তারিখ																																	
		১	২	৩	৪	৫	৬	৭	৮	৯	১০	১১	১২	১৩	১৪	১৫	১৬	১৭	১৮	১৯	২০	২১	২২	২৩	২৪	২৫	২৬	২৭	২৮	২৯	৩০	৩১			
১. আলোকিত পথের আলো	১. আলোকিত পথের আলো	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
	২. আলোকিত পথের আলো	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
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	৩. আলোকিত পথের আলো	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
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	৪. আলোকিত পথের আলো	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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