

# FIRE SAFETY INSPECTION REPORT

## Fabrica Knit Composite

ACCORD ID: 11906

(Ahamed Plaza) Zerabo, Pukurpar, Ashulia, Savar, Dhaka, Bangladesh

Other Factories: None



**ACCORD**  
on Fire and Building Safety in Bangladesh

Inspected By: Md Rakibul Alam & Md. Atick Al Zaman

Date: June 16, 2016

# Fire Safety Inspection Report

## Fabrica Knit Composite.

(Ahamed Plaza) Zerabo, Pukurpar, Ashulia, Savar, Dhaka, Bangladesh

### Summary:

Fabrica Knit Composite was surveyed for fire safety on 16thth June 2016 by The Accord Inspection Team. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this 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..





## Findings & Recommendations :

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**

SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
1	Fire Rated Construction	The exit stairs are not separated from factory floor on each floor by fire-rated construction.	<p>Provide minimum 1.5-hr fire rated doors and seal all unprotected openings to separate the exit stairs from work areas and other building spaces on all floor levels. 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.</p> <p>Once fire doors are installed, every door in a stair enclosure serving more than 5 stories shall be provided with reentry unless it meets ACCORD standard 6.8.3.1.</p>	Within 3 months	




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2	Fire Rated Construction	Areas used for combustible storage at various floors are not separated by fire rated construction.	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.</p> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m<sup>2</sup></li> <li>- If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup>.</li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months	
3	Fire Rated Construction	Rooms used for combustible storage on the ground floor are not separated by fire-rated construction. Location: 1st and 4th floor.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months	





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4	Fire Rated Construction	Penetrations through floor/ceiling assemblies are found unsealed.	<p>Seal all penetrations and openings in floor/ceiling (full thickness of the floor/ceiling) assemblies by fire rated materials to maintain the fire resistance rating.</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months	
5	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.	Immediate	




Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
6	Egress	Egress gates on the ground floor with locking features are provided at exit discharge.	<p>Remove locking features from all egress doors/gates.</p> <p>If locks are required for security reasons, utilize specialized door locking features complying with NFPA101.</p>	Immediate	






Sl No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
7	Egress	Collapsible gates / sliding doors are provided at exit discharge on the ground floor.	Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors in accordance with ACCORD standard 6.8.1.	Within 1 month	
8	Egress	Width of aisles is less than 0.9m (36-in.). Location: 5th & 6th floor.	Aisles shall be provided with a minimum unobstructed clear-width of 0.9 m (36 in.).	Within 3 months	





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9	Fire Rated Construction	The boiler, generator & air compressor room is not separated by fire rated construction (openings, non-rated doors, penetrations). Location: Ground floor.	Separate the boiler/generator/EMR/gas meter/air compressor/fire pump room by a minimum 2-hr fire rated construction. Seal and/or protected all openings to maintain fire separations.	Within 3 months	
10	Fire detection	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month	
11	Egress	Building did not have floor & stair designation signs and occupant load signs at required locations.	Provide floor & stair designation signs and occupant load signs at required locations.	Within 3 months	




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12	Egress	Electrical Panel box's ware located in the south exit stair case.	Remove all electrical panel box from exit stairs.	Within 3 months	
13	Egress	Handrails are not provided on both sides of each exit stairs on all floors.	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	
14	Egress Lighting	Exit signage not illuminated at various locations (burned out, broken, etc.).	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/m2 may also be used.	Within 1 month	



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
15	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: All floors.	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 1 months	
16	Egress Lighting	Inspection, testing and maintenance for the emergency lighting system was not in accordance with ACCORD standards.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 2 Months	
17	Fire Alarm System	The fire alarm system is antiquated, not a listed system and 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 occupant.	Replace the fire alarm system with a new, listed automatic fire alarm system in accordance with NFPA 72 and ACCORD standards. 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 4 months, Install within 9 months	



SI No.	Category	Findings	Required Action	Remediation Time Frame	Pictorial Evidence
18	Fire Alarm System	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)	
19	Fire Protection System	The building has occupiable floor greater than 10 meter (33 feet) and is not provided with standpipe system as per NFPA14.	Install a new class III standpipe system & fire department connection in accordance with NFPA 14. A class I system shall be permitted in buildings protected throughout by an automatic sprinkler system.	Design within 2 months, Install within 4 months	
20	Fire Protection System	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)	
21	Fire Protection System	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 and ACCORD standards.	Within 3 months	

