

INITIAL FIRE SAFETY INSPECTION REPORT

Impress Newtex Composite Textiles Ltd. (Extension)

Factory ID: 24264

Gorai Industrial Area, Mirzapur, Tangail, Bangladesh

GPS Coordinates: 24.0904955, 90.1679355

Other Factories: N/A



Inspected By: Safawan Abyaz, Nirmal Chandra Sinha, Md. Khalaquzzaman

Date: 7 November 2021

Introduction:

Impress Newtex Composite Textiles Ltd. (Extension) was surveyed for fire safety on **7 November 2021** by the RSC 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 RSC. 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 RSC for approval.

Table-1 Findings & Recommendations:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	4-storied and 2-storied building: The exit stairs are not separated from work areas and other spaces on each floor by fire-rated construction. During inspection it was observed that the factory has installed fire doors at exit.	Submit installed fire rated door documents to the RSC for review. 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. Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation as per Accord standard 6.3.1.3. 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. 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	Fire Rated Construction	<u>4-storied and 2-storied building:</u> Unsealed penetrations and openings are located in north-west exit stair enclosure on 1st floor of the 2-storied building and north exit stair enclosure on 1st floor of the 4-storied building.	Seal all penetrations and openings in exit stair enclosure walls to maintain the fire separation as per Accord standard 6.3.1.3. The rating of the exterior wall shall extend 3.05 m (10ft) beyond the ends of the stair structure.	Within 3 months
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F-3	Fire Rated Construction	4-storied building: The exit discharge path serving north exit 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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible).	Within 6 months
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F-4	Fire Rated Construction	4-storied building: Kitchen areas are not separated by fire rated construction from dining and other areas on 2nd floor.	Cooking operations/facilities shall be as per the Accord standard article 5.10. Separate dining area by a minimum 2-hr fire rated construction. Seal and/or protect all openings to maintain the required fire separations.	Within 3 months
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F-5	Fire Rated Construction	2-storied building: The boiler room and compressor rooms are not separated by fire-rated construction from maintenance store and office area due to openings and non-rated doors on 1st floor.	Separate the boiler and compressor by a minimum 2-hr fire rated construction from maintenance store room and office area. Seal and/or protect 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	4-storied building: Lift discharges inside the floor and not separated from work areas and other spaces on each floor by fire rated construction.	Separate the lift 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
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F-7	Egress	4-storied building: Egress doors with locking features are provided along egress routes. Egress gates with locking features are provided at building exits. 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-8	Egress	<u>4-storied building:</u> Egress door on the exit discharge serving 50 or more occupants does not swing in the direction of egress travel on 3rd floor north exit.	Modify the egress door to swing in the direction of egress travel.	Within 1 month



F-9	Egress	<u>4-storied and 2-storied building:</u> 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.	Within 1 month
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F-10	Egress	4-storied building: Parapets or guards were not provided according to the standard on occupied on 1st and 2nd floors.	Provide parapets or guards for all occupied roofs/floors of a minimum height of 1067 mm (42 in.) as required.	Within 3 months
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F-11	Fire Detection & Alarm System	<u>All buildings in the factory premises:</u> An addressable SHIELD brand fire alarm system has installed in the factory building premises. Fire detection system installation requires to detailed review to confirm compliance with NFPA 72 and Accord standard for all buildings in the factory premises.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design submission (Within 2 months), Modification within 4 months (if required)
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F-12	Inspection, Testing, and Maintenance (ITM) of the Fire Detection & Alarm System	<u>All buildings in the factory premises:</u> 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.	Within 1 month
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F-13	Fire Protection	4-storied building: The standpipe is required for the building as the existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade. Standpipe system has installed in the factory building premises. Standpipe system installation requires to detailed review to confirm compliance with NFPA 14 and Accord standard for the buildings in the factory premises.	Provide a standpipe system throughout the building in accordance with NFPA 14. Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval.	Design submission (Within 2 months), Modification within 4 months (if required)
 				

F-14	Inspection, testing, and maintenance of the standpipe system	Inspection, testing, and maintenance of the standpipe is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the pump, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month
F-15	Inspection, testing, and maintenance of the fire pump	Inspection, testing, and maintenance of the pump is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the pump, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month
F-16	Egress lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress aisles.	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-17	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-18	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