

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Reaz Knitwear Ltd

RSC ID: 24524

**ADDRESS: Holding#163, Block-B, Hatimara, Kashempur, Gazipur
23.989069, 90.2908881**

Other Factories: None



Inspected By: Ahammad Kabir and Md. Golam Kibria

Date: 11/09/2023

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 RSC for approval.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-01	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction on the ground floor. Location: 5th floor of factory building.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months




F-02	Fire Rated Construction	The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction. Location: Factory building and office building.	<p>Provide minimum 2-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 rated 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 rated 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 RSC TECHNICAL GUIDELINES (STANDARD) 6.8.3.1</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
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F-03	Fire Rated Construction	The boiler and air compressor room is not separated by fire rated construction (openings, non-rated doors, penetrations)	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
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F-04	Fire Rated Construction	Penetrations through floor/ceiling assemblies are not properly sealed. Location: Electrical BBT and cable riser in factory building and office building.	Seal all penetrations and openings in floor/ceiling (full/required thickness of the floor/ceiling) assemblies by listed fire rated materials to maintain the fire resistance rating of 3-hr.	Within 3 months
				
F-05	Egress	Sliding doors are provided at building exits, exit stairs, along egress routes, exit discharge at bonded warehouse and finished goods store.	Replace all collapsible gates/ sliding doors/ rolling shutter doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize specialized door locking features complying with NFPA 101.	Within 1 month



F-06	Egress	Building did not have stair designation signs and occupant load signs at required locations. Office building.	Install signage adjacent to each stair door indicating the stair name and the floor level at the noted locations in both English and Bengali language. Post the occupant load for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	1 month
F-07	Egress	Handrails are not provided on both sides of each exit stairs on all floors. Location: Office building.	Handrails shall be provided on both sides of each stairway. Intermediate handrails shall be provided when the stair width exceeds 2.2m (87 in.).	Within 3 months



F-08	Egress	Factory did not post occupant load at required locations. Office building.	The occupant load shall be posted for every assembly and production floor in a facility in a conspicuous space near the main exit or exit access doorway for the space.	Within 1 month
F-09	Egress	Factory did not post evacuation map at required location. Office building.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month

F-10	Egress	Storage was located in the exit stair enclosure.	Factory shall Keep exit stair, exit stair enclosure and all egress paths clear of storage	Immediately
				
F-11	Egress	Unprotected shaft opening has been found within the exit stair enclosure.	Protect the shaft opening by 2 hour rated construction.	Within 2 months




F-12	Egress	Exits are not remotely located from each other such that a single fire event could compromise both exits. Location: Office Building	<p>Specify appropriate upgrade based on conditions:</p> <ul style="list-style-type: none"> - Modify exit arrangement to meet RSC standard 6.6.6. - Provide additional exit(s) to meet RSC standard 6.6.6. - Provide sprinkler protection in accordance with NFPA 13 to meet RSC standard 6.6.6 	Within 3 months
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F-13	Fire Detection & Alarm System	Fire detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidance standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the RSC for review and approval. Modification work shall be as per NFPA 72 .	Design within 2 month, installation/ modification within 4 months after drawing review
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F-14	Inspection, Testing, and Maintenance of the Fire Detection & Alarm System	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per RSC standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per RSC standard.	Within 1 month (After compliant installation).
F-15	Fire Protection System	The existing factory building with an occupiable floor greater than 10 m (33 ft) above the finished grade is not protected with an approved standpipe system. Reviewed design was not found during follow-up inspection	Submit the as-built design of fire fighting system to RSC in accordance with NFPA 14 & installation should be as per the reviewed design	Design within 4 months, Install within 6 months

F-16	Inspection, testing, and maintenance of the standpipe system	Inspection, testing, and maintenance of the standpipe system is not in accordance with NFPA 25 or as per RSC standard.	Inspect, test and maintain the standpipe system, and keep written records on-site, in accordance with NFPA 25 or as per RSC standard.	Within 3 months
F-17	Non rated structure	The main structural element of the Block-G, single storied store shed is constructed by steel which is non-rated and were found in exposed condition without any fire protection. Location: Shed 1: Yarn store, Shed 2: Accessories store, Shed 3: Production, Shed 4: Bonded warehouse, Shed 5: Finished goods store,	The building shall be type-I or II construction. So, provide require rating in the structural elements of the building. Consult with a qualified fire protection engineer. Follow BNBC 2006 Part 3, Table 3.3.1	Within 6 months
				

F-18	Emergency Egress Lighting	Exit sign not provided at all exits at office building.	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.	Within 1 month
F-19	Emergency 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-20	Emergency Egress Lighting	Exit sign not provided at several exits of the building.	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 3 months

F-21	Inspection, testing, and maintenance of Emergency light and Exit Sign	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 3 months
F-22	Fire Extinguishers ITM	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 and RSC standards.	Within 3 months
F-23	Fire Pump ITM	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 25.	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25 and RSC standards.	Within 3 months

F-24	No smoking sign	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
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