

INITIAL FIRE SAFETY INSPECTION REPORT

Snowtex Outer Wear Ltd (Extension)

RSC ID: 25770

Address: Plot#65/3,Lakuria para,Dhamrai, Dhaka, Bangladesh

Google Co-ordinate: 23.9086356, 90.2077370

Other Factories: Snowtex Outer Wear Ltd (RSC ID: 11803)

Snowtex Sportswear Ltd (RSC ID: 24142)



Inspected By: Md. Hasanuzzaman, Md. Rakibul Islam & Hasanat Alamgir Abeer

Date: 12-January-2025

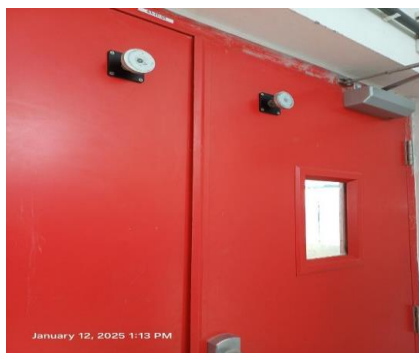
Findings & Recommendations :

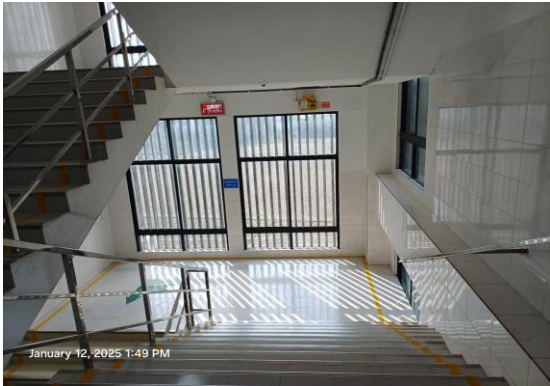
Table 1 summarizes the major fire safety issues identified during the inspection. Recommendations have been provided to address each issue.

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: For Building# 10

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Means of Egress	The exit stairs are not separated from work areas and other spaces on each floor by fire rated construction due to non functionality of fire door coordinators and the door has not been latched properly. Moreover, The datasheets & certificates of installed fire-rated doors was not available during inspection to verify the credibility of the fire door. Location: Building-10	Provide minimum 2-hr rated fire wall and 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. 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. Moreover, The factory shall keep credible datasheets and certificates of installed fire rated doors and their accessories at site to verify during the next inspection.	Within 3 Months

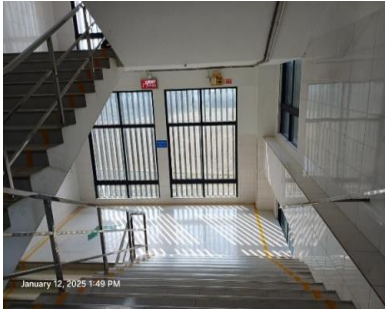


F-2	Means of Egress	Intermediate hand rails has not been provided at stair-4. Location: Building-10	Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.).	Within 3 Months
				

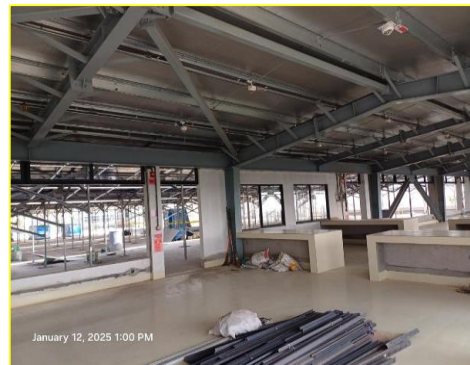
F-3	Means of Egress	Common path of travel has been found exceed the limit at 2nd floor ware house of the main building. Location: Building-10.	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 30 meter.	Within 2 Months
				

F-4	Means of Egress	Storage room discharges directly into the exit stair enclosure. Location: Building-10.	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 as per 6.14.3-RSC Technical Guidelines Standard V1.0. Ensure that the fire rating of the vestibule construction matches that of the exit stair enclosure. The minimum width for vestibules shall not be less than 1.1m and length 1.8m.	Within 3 Months
 				

F-5	Means of Egress	The interior exit stair-4 discharges inside the building in the ground floor of the Building-10. Location: GF_ Building-10	Provide 2-hr fire-rated exit passageway leading directly outside. - Modify stair to discharge directly outside. - Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas). - Provide sprinkler protection for discharge floor in accordance with NFPA 13.	Within 3 months
 A photograph showing the interior of a building, likely Building-10. It depicts a hallway or stairwell area with white walls and a light-colored tiled floor. On the left, there is a wooden cabinet and a fire extinguisher mounted on a wall. In the center, a set of stairs leads down. To the right, there is a yellow metal scaffolding structure. The image is dated January 12, 2025, 2:11 PM.				

F-6	Means of Egress	Handrails of the stair case has been found less than 34 inch at stair-4 of the building. Moreover, The guards below the handrails gaps has been found large enough for a sphere 200 mm (8 in.) in diameter to pass through. Location: Building-10.	New and interim 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. Open guards shall have intermediate rails or pattern such that a sphere 200 mm (8 in.) in diameter cannot pass through any opening up to a height of 865 mm (34 in.).	Within 3 Months
 				
F-7	Means of Egress	Exit stair door/egress door serving 50 or more occupants does not swing in the direction of egress travel at the roof top of the building. Location: Building-10.	Modify the egress door to swing in the direction of egress travel.	Within 2 Months
				

F-8	Means of Egress	Evacuation map and occupant load sign has not been found at required locations. Location: Building-10.	Provide evacuation map and occupant load sign at required locations.	Within 1 Month
F-9	Fire Rated Construction	A steel shed has been observed at the roof top of the building which is non-rated and were found in exposed condition without any fire protection. Location: Building-10.	The "Ministry of Housing and Public Works" has issued a resolution based on the recommendations from the House Building Research Institute (HBRI) and the Public Works Department (PWD) to assess structural fire protection requirements of steel buildings (unprotected noncombustible construction type) according to BNBC 2020. The construction type shall be confirmed to be in accordance with BNBC 2020 Part-3, Table 3.1.7. Ensure fire resistive rated construction following Table 3.3.1(a) Part 3 Section-3, Table 3.2.2 and Table 3.2.3 Part 3 Section 2 and Table 4.1.1 from BNBC 2020 Part 4 Section 1. Provide design philosophy to determine the construction type as per BNBC 2020. If any construction rating is required, Consult a qualified fire protection engineer to achieve the required fire rating.	Within 6 Months



F-10	Fire Rated Construction	Unsealed penetrations and openings has been found at several locations due to cable riser and plumbing pipe in the fire rated floor/ceiling assemblies. Location: Building-10.	Provide a minimum 2-hr fire-rated shaft to separate the sanitary pipe and cable riser from each floor level or seal all penetrations and openings in floors/ceiling assemblies by 3-hr fire rated listed/certified materials. The installation of such fire-rated materials shall be following certified design. Factory shall ensure that, all the design, datasheet, certificate, and proposed drawing of installation has been reviewed from the RSC prior to install the passive fire protection system (If required).	Within 3 Months
 				

F-11	Fire Rated Construction	Elevator shaft are directly open into exit stair enclosure without proper fire separation of the main building. Location: Building-10.	Provide a minimum 2-hr fire rated elevator shaft to separate it from each floor. Seal all openings to maintain fire separations. Factory is recommended to follow RSC published "SUPPLEMENTARY PAPER ON REMEDIATION GUIDANCE ELEVATOR OR LIFT SHAFT OPENING IN EXIT ENCLOSURES" for different solutions.	Within 6 Months
 				
F-12	Fire Rated Construction	Heat producing equipment at 1st floor has not been separated from production/working area. Location: Building-10.	Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr (2-hr for highrise building) fire rated construction (wall, floor, slab etc). Seal all penetrations and openings (door, window etc.) should be protected by 0.75-hr (45 min) fire rated materials to maintain the fire separation if required. All exhaust systems shall discharge to the exterior of the building in a safe location. Or Relocate it to exterior of the building and maintain a minimum 3m (10 ft.) spatial separation distance from the building.	Within 3 Months

				
F-13	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. Location: Building-10.	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-14	Fire Alarm & Detection System (FADS)	Automatic fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and RSC standards. Location: All Building	Design & Installation of Fire Alarm & Detection system shall be in accordance with RSC standard and NFPA 72. Submit as-built design, documents and calculations to RSC for review prior installation/modification. After installation/modification, 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 Review within 2 months and installation within 4 months.
 				

F-15	Fire Protection System(Standpipe System)	The existing building has an occupied floor greater than 10 meter (33 feet), therefore, standpipe system is required. Installation requires detailed review to confirm compliance with NFPA 14 and RSC standards. Location: Building-10	Submit the standpipe system drawing to RSC for review. Once the design is reviewed, install and modify the standpipe system throughout the building in accordance with review comment, RSC Standard and NFPA 14, 20, 22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design Review within 2 months and installation within 4 months.
 				
F-16	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system are not in accordance with NFPA 14 and 25 or as per RSC standard.	Inspect, test and maintain the standpipe system, and keep written records onsite, in accordance with NFPA 14 and 25 or as per RSC standard.	Within 1 month after installation.
F-17	Inspection, testing, and maintenance of the Fire Pump (ITM).	Inspection, testing and maintenance of the fire pump system is not in accordance with NFPA 20	Inspect, test and maintain the fire pump system and keep written records on-site, in accordance with NFPA 25.	Within 1 month after installation.
F-18	Fire Protection System(ITM of Extinguishers)	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 RSC standards.	Within 1 Month after installation.

F-19	Fire Protection System(ITM of Emergency Lighting System)	Inspection, testing and maintenance for the emergency lighting system was not in accordance with The RSC standard.	Inspect, test and maintain the emergency lighting system in the accordance with The RSC standard. Keep written records on-site.	Within 1 Month after installation.
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Findings & Recommendations :

Table 2 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-2: For Building# 3,4,5,6,7,8,9, Shed-1, Shed-3, Car Parking Shed-1, Car Parking Shed-2, Car Parking Shed-3

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-20	Means of Egress	Single exit has been provided on ground floor from chemical store room where travel distance has been found more than 8m(25feet). Location: Chemical Building.	The number of means of egress from any floor, story or portion thereof shall not be less than 2 except where a single exit is permitted by 6.6.2, a single means of egress is permitted by 6.6.5 or where a greater number is required by 6.6.3 of RSC Technical Guidelines Standard. Provide additional exit from another chemical store.	Within 3 Months
				
F-21	Means of Egress	A ramp has been observed at chemical store with a running slope greater than 1 in 12. Location: Chemical Building.	Reconstruct the ramp with slope 1 in 12 and provide handrails on both sides of the ramp as per the RSC Technical Guidelines.	Within 3 Months



F-22	Means of Egress	Guard rail has not been found at several locations. Location: Building-8:Compressor room.	Provide guard rail on open side with minimum height 42 inch.	Within 2 Months
				
F-23	Fire-Rated Construction	Parking area has not been separated from dining shed. Location: Shed-1: Dining Shed.	Separate the parking area by 1 hr fire-resistive rated construction or automatic sprinkler protection is provided.	Within 3 Months
				

F-24	Fire rated Construction	Liquefied or compressed gas cylinders were located within the factory premises.	The RSC Technical Guideline (Standard) V1, section 3.4.2.1.11 prohibits the storage or use of liquefied or compressed flammable gas (LPG/CNG) cylinders within the factory building. However, if it is not feasible then conditionally those are permitted to be stored in a separate dedicated building on the factory premises within its boundaries if the building meets the following conditions. 1. The storage building must be at least 3 meters away from any other building and boundaries. 2. The exterior walls of the building must have a fire resistance rating of 3 hours using noncombustible construction. 3. Doors and other openings in the exterior walls must be protected with suitable closing devices having a fire protection rating of 3 hours. 4. The building is to be used for no other purpose than the storage of LPG/CNG cylinders. 5. The building must be mechanically ventilated to control the accumulation of flammable vapors. 6. The installations must be approved and accepted by the requirements of the AHJ, Gas supply company regulations, manufacturers/supplier's instructions/guidance, CIOB and all other applicable agencies, codes and standards.	Within 3 Months
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