

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: CORETEX APPARELS LTD.

RSC ID: 24910

Factory Address: Holding # 160/1, Madhabpur, Kashimpur Metro, Gazipur-1349.

Other Factories: None



Inspected By: Mohammad Anayet Hossain & Mahbub Alam

Date: 26-November 2023

Fire Safety Inspection Report

Introduction:

CORETEX APPARELS LTD. complex was surveyed for fire safety on 26/11/2023 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.

Limitations

The information in this fire safety inspection report was obtained during a visit to the facility and during interviews with local factory management. It has not been possible to provide independent verification for all the information and data collected, and, therefore, The RSC cannot accept general responsibility for omissions or errors arising from inaccuracies in this report from the information obtained. The findings and recommendations in this report are not intended to imply, guarantee, ensure or warrant compliance with any government regulations. Additionally, the results do not imply in any way that compliance with the findings or recommendations as stated in this report will eliminate all hazards, risks or exposures or that hazards, risks or exposures not referred to in this report do not exist. Compliance with the findings and recommendations stated in this report does not relieve the factory owner from obligation to comply with specific project requirements, industry standards, or the provisions of any local government regulations.

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 review.

Table-1:

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction.	The exit stair enclosure shall be provided with a minimum of 2-hr. fire resistance rating for buildings 4 or more stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2hr. fire rated fire rated barrier construction for building with 4 or more stories 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.	Within 3 months
				

F-2	Fire Rated Construction	Areas & rooms used for combustible storage open to the factory are not separated by fire rated construction.	Separate the dedicated storage rooms by minimum 1-hr fire-rated construction. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated barrier 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.) , maximum area of 23m² (250 ft²) and 3m (10ft.) clear distance from adjacent another unenclosed combustible storage. - If the building/floor is sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m² (1000 ft²). - In-process storage shall not exceed 10 percent of the building area of the story in which they occur.	Within 3 months
				

F-3	Fire Rated Construction	Catwalk has been constructed on High rack storage and the area of the intermediate deck creates a full floor where the size of the deck is more than 33% of the total floor area and requires fire rated separation. Location: Warehouse Building (Ground Floor.)	Remove the catwalk of the intermediate deck. Or , Maintain fire separation (3hr for type 1) between floor to floor as per BNBC 2006 Table 3.3.1. Provide required fire rating on the structural elements by following Table- 3.2.4, 3.1.9 & Table 4.4.1 of the RSC Technical Guidelines Standard or Table 3.3.1 of BNBC-2006. Consult a qualified fire protection engineer to design the rated construction barriers in between two floors and in structural members. Factory shall submit all required product datasheet, installation design along with design philosophy to RSC for review prior to installation on site.	Within 6 months
				

F-4	Fire Rated Construction	Unsealed penetrations and openings are located in the fire rated floor/ceiling assemblies. Location: BBT Riser & Sanitary Pipe.	Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation at least by 3-hr. The used sealer shall be 3rd party certified and installation shall be as per manufacturer's guideline. (Type-1 Construction). or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required. (Type-1 Construction).	Within 3 months
				
F-5	Fire Rated Construction	Room used for combustible storage are not separated by fire rated construction from Boiler Room.	Separate the storage room by a minimum 1- hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations.	Within 2 months

				
F-6	Fire Rated Construction	The structural elements of Main Building 3rd Floor Partial roof is constructed by steel which is non-rated and were found in exposed condition without any fire protection.	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. BNBC 2006-Table 3.2.4	Within 6 months
				
F-7	Means of Egress	Adequate aisles found in the Main Production Building.	Provide minimum aisle widths of 36 inch with proper marking & update on evacuation map.	Within 1 month

				
F-8	Means of Egress	Sliding & inside swing doors found in several areas throughout the factory.	Replace all gates and doors along the means of egress with side-hinged, swinging egress doors in accordance with RSC Standard.	Within 2 months
 				
F-9	Means of Egress	A single means of egress is provided from (3rd & Occupied Roof) where the occupant load exceeds 49 person.	Provide at least two means of exits leading directly to the street or leading to a corridor or open space having access to exits in two independent and different directions. Dining (E3) is not permitted with moderate hazard occupancies (G2) as per BNBC 2006.	Within 3 months

				
F-10	Means of Egress	Compliant Exit Stair not provided at Utility Building 1st Floor.	Provide compliant exits and stairs for this building from top floor to ground floor as per RSC Technical Guidelines (Standard) 6.5.6.2.	Within 1 month
				

F-11	Means of Egress	Inadequate emergency lighting units. (Emergency Light, Exit Sign, Directional Exit Light etc.)	Test the emergency lighting system on each floor and provide additional emergency fixtures to supply adequate illumination along the means of egress. Provide a minimum illumination of 10 lux at the floor level within exit stairs and along exit discharge paths and a minimum 2.5 lux along exit access aisles. 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
				
F-12	Means of Egress	Common path of travel exceeds the permitted limit (23m/ 75ft) at Ground Floor Finishing Section (Main Building).	Reconfigure the egress arrangement to reduce the maximum common path of travel to not more than 23 meter.	Within 1 month

				
F-13	Means of Egress	Parapets or guards are not provided in occupied/occupiable roof. OR Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch.).	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				
F-14	Means of Egress	Building did not have stair designation signs and occupant load signs at required locations at all floors.	Provide stair designation signs and occupant load signs at required locations.	Within 1 month

F-15	Emergency Lighting	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 NFPA/RSC. Keep written records on-site.	Within 1 month
F-16	Fire Alarm & Detection System (FADS)	The factory has installed Fire alarm and detection system which requires detailed review to confirm compliance with NFPA 72 and RSC Technical Guidelines (Standard).	Submit the proposed design of Addressable fire alarm system to RSC in accordance with NFPA 72. Installation shall be as per the reviewed design with a listed Addressable Fire Alarm System.	Design within 2 months and installation within 3 months
				
F-17	Fire Alarm & Detection System (FADS)	Inspection, testing, and maintenance for the fire detection system is not found in accordance with NFPA 72.	Inspect, test and maintain the fire detection system, and keep written records on-site, in accordance with NFPA 72.	Within 1 month after installation.
F-18	Fire Suppression System (SUPS)	The factory building has an occupied floor greater than 10 meter (33 feet) and installed a standpipe protection system which requires detailed review to confirm compliance with NFPA 14 & 20 and RSC Technical Guidelines (Standard).	Submit the proposed design of Standpipe Protection System to RSC in accordance with NFPA 14 & 20. Installation shall be as per the reviewed design with a listed Standpipe & Fire Pump System.	Design within 2 months, Installation within 3 months

				
F-19	Fire Suppression System (SUPS)	Inspection, testing and maintenance of the standpipe system is not found in accordance with NFPA 25.	Inspect, test and maintain the standpipe system and keep written records on-site, in accordance with NFPA 25.	Within 1 Month after installation.
F-20	Fire Suppression System (SUPS)	Inspection, testing, and maintenance for the fire pump is not found in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 month after installation.
F-21	Fire Protection System	Inspection, testing and maintenance of portable fire extinguishers is not found in accordance with NFPA 10.	Inspect, test and maintain the portable fire extinguishers and keep written records onsite, in accordance with NFPA 10.	Within 1 month.