

INITIAL FIRE SAFETY INSPECTION REPORT

Factory Name: Ariyan Socks Industries Ltd.

Factory ID: 24340

ADDRESS: Tengra, Sreepur, Gazipur.

24.23112,90.45715

Other Factories: No



Inspected By: Ahammad Kabir, Md. Sadid Rahman

Date: 29-Mar-2022

Findings & Recommendations :

Table 1 summarizes the fire safety non-compliant issues identified during the inspection. Recommendations have been provided to address each issue with specific remediation timeline. 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 and Recommendations of Factory Building, Office Building, Shed-1 (Compressor), Shed-2

SI No.	Category	Findings	Required Action	Remediation Time Frame
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1	Fire Rated Construction	Exit stairs are not separated from work areas & other spaces on each floor by fire-rated construction due to unprotected openings and penetrations. Location: Factory Building, Office Building	Separate the exit stairs from work areas and other building spaces on all floor levels by minimum 1- hr fire-rated construction. Provide minimum 1- hr fire rated doors and seal all unprotected openings and penetrations to maintain the fire separation. Ensure that all fire doors are self-closing and positive latching, and are provided with fire exit (panic) hardware where serving production floors or assembly occupancies. 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
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2	Fire Rated Construction	Room on the ground floor used for combustible storage is not separated by a minimum 1-hr fire-rated construction. Location: Factory Building, Shed-2	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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3	Fire Rated Construction	Areas on the ground floor used for combustible storage open to the factory are not properly defined and/or not within limits. Location: Factory Building.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45m (8 ft) and maximum area of 23 m2 (250 ft2). If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m2 (1000 ft2). Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).	Within 3 months
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4	Fire Rated Construction	The exit discharge path serving the North-West exit is less than 10 ft wide and is not separated from the building interior. Location: Factory Building and Shed-2	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. Additionally egress path shall be even and smooth to ensure uninterrupted and unobstructed safe exit.	Within 3 months
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5	Fire Rated Construction	The structural elements of the building (new) is constructed by steel which is appears to be non-rated and were found in exposed condition. Location: Factory Building, Office Building, Shed-2	New building shall be type-I or type-2 construction as per BNBC 2006 Part 3 Section 3.2.4, page 10356. Provide/ensure required fire rating on the structural elements by following Section 4.4 and Table 4.4.1 of the Accord Standard or Table 3.3.1 and Table 4.1.1 from BNBC. Consult a qualified fire protection engineer to achieve the required fire rating.	Within 6 months
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6	Fire Rated Construction	The boiler, generator, transformer and substation room is not separated by fire rated construction (openings, non-rated doors, penetrations) Location: Utility room of Factory Building.	Separate the boiler, generator, transformer and substation room by a minimum 1-hr fire rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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7	Fire Rated Construction	The Air Compressor room is not separated by fire rated construction (openings, penetrations) Location: Shed-1 (Compressor)	Separate the Air Compressor room by a minimum 1-hr fire rated construction. Seal and/or protected all openings to maintain the required fire separations	Within 3 months
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8	Egress	Parapets or guard are not provide in occupiable roof. Location : Factory Building.	Provide parapets or guard with a minimum height of 1067mm (42 inch.) in occupiable roof	Within 3 months



9	Egress	Building did not have stair designation signs and occupant load signs at required locations on all floors.	Provide stair designation signs and occupant load signs at required locations.	Within 1 month
				

10	Egress	Storage and Electrical Panel/ Battery/ IPS has been found in the Stair-1 of Factory Building and Office Building.	Remove storage from the exit stairs and egress path. Remove and re-locate all electrical panels from exit stair enclosures.	Immediately
 				

11	Egress	Doors along means of egress are provided with a non compliant locking system. Location: Ground Floor of B-1 (Stair-2), 3rd Floor of B-2 (Stair-1)	Remove all non compliant locking features from egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons. Doors may be provided with locking hardware from the ingress side provided that a panic bar is installed on any door with an occupant load exceeding 49 persons.	Immediately
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12	Egress	Changes in elevation of walking surfaces do not exceed 6.35 mm (1/4 in) unless provided with a beveled slope of 1 in 2 that does not exceed 12.7 mm (1/2 in). Location: Ground Floor of Factory Building (Stair-2)	Resurface the change in elevation to provide a slope that is less than 1 in 48 in.	Within 1 month
				
13	Egress	Childcare is located on the 2nd floor of office building does not have direct access to the exit.	Day-care shall be located on the ground floor with a maximum travel distance of 9 m (30 ft) or located one story above level of exit discharge with direct access to an exit enclosure. If the above is not possible provide a minimum 2-hr fire rated exit corridor between the day-care room and exit stair with ACCORD approval.	Within 3 months



14	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
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15	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Fire Safety Manual for RMG Buildings.	Inspect, test and maintain the emergency lighting system in accordance with The RSC Fire Safety Manual for RMG Buildings. Keep written records on-site.	Within 3 month
16	Egress Lighting	Exit sign not provided at exit. Location: 1st Floor of Factory Building.	Illuminated 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 1 month

				
17	Fire Protection System (Extinguisher)	Portable fire extinguisher was not provided on number of floors. Location: Factory Building.	Portable fire extinguishers shall be installed throughout all new and existing facilities in accordance with Accord Standard & NFPA 10.	Within 3 month
				

18	Inspection Testing and Maintenance of Portable Fire Extinguisher.	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.	Within 3 month
19	Fire Alarm & Detection system	The fire alarm system is antiquated, not a listed system and does not provide alarm and notification features consistent with acceptable standards.	Replace the fire alarm system with a listed addressable fire alarm system in accordance with NFPA 72. Submit drawings, calculations, equipment datasheets, certification and other relevant documentation to the RSC prior installation for review.	Design Review within 2 months and installation within 4 months.



20	Inspection Testing and Maintenance of Fire Alarm and Detection System (ITM)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. (After Installation)	Within 1 month after installation.
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