

# INITIAL FIRE SAFETY INSPECTION REPORT

**Factory Name: Union Label & Accessories Ltd.**

**Factory ID: 24650**

**Address: Baniarchala, Bhavanipur, Gazipur Sadar, Gazipur.**

**Google Coordinate: 24.1531228, 90.4187406**

**Other Factories: N/A**



**Inspected By: Nirmal Chandra Sinha and Md. Khalaquzzaman**

**Date: 10 April 2023**

## Introductions:

**Union Label & Accessories Ltd.** complex was surveyed for fire safety on **10/04/2023** 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.

Table 1-3 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.

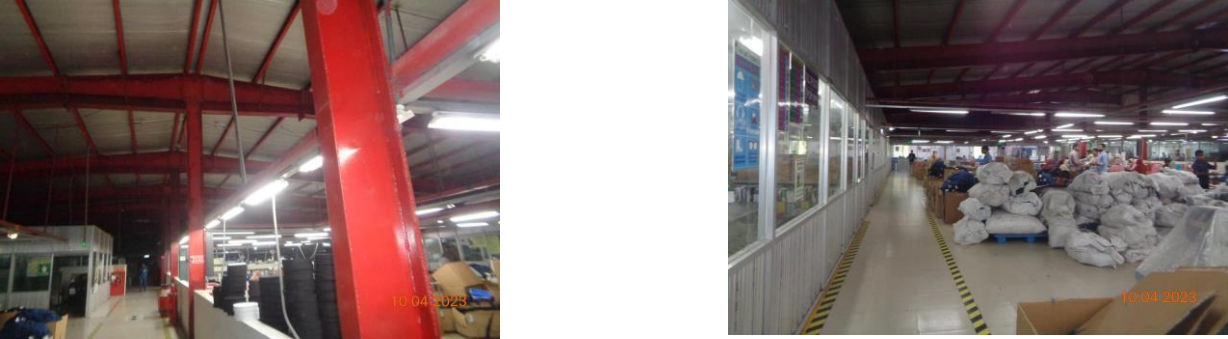
### Union Label & Accessories Ltd. (RSC ID: 24650)


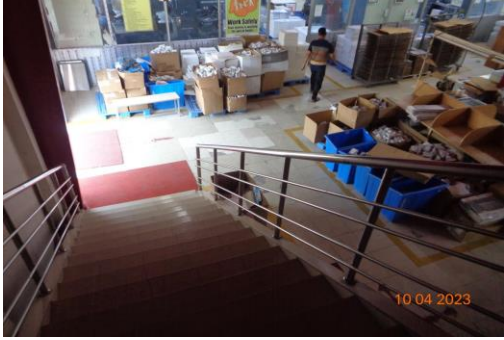


Table Number	Total Findings	Building Number/ Name	Finding Range	Remarks
1	13	Building # 1	1 to 13	
2	10	Building # 2	14 to 23	
3	11	Building # 4 and Others Building (3, 5,6,7,8,9,10 & 11)	24 to 34	

**Table-1: Findings & Recommendations of Building-1( Main shed)**



SI No.	Category	Findings	Required Action	Remediation Time Frame
1	Fire Rated Construction	<p>The exit stairs are not separated from work areas, other spaces on each floor by fire-rated construction.</p> <p>Location: Building-1</p>	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction.</p> <p>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.</p>	Within 3 months

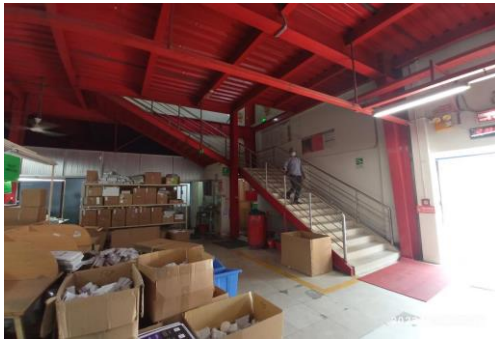


2	Fire Rated Construction	<p>The structural elements of the building is constructed by steel which is appears to be non-rated and were found in exposed condition. Location: Building -1</p>	<p>Building shall be type-I or type-2 construction as per BNBC 2006 Part 3 Section 3.2.4.</p> <p>Provide/ensure required fire rating on the structural elements by following Section 4.4 and Table 4.1.1 of the RSC Technical Guidelines Standard or Table 3.3.1 and Table 4.1.1 from BNBC part 4.</p> <p>Consult a qualified fire protection engineer to achieve the required fire rating.</p>	Within 6 months
				
3	Fire Rated Construction	<p>All exit stairs do not discharge the occupant directly to the outside. Location: Building-1</p>	<p>Provide 2-hr fire-rated exit passageway leading directly outside. OR Provide 2-hr fire-rated exit passageway leading directly outside (vestibules to separate any storage areas) and Provide sprinkler protection for discharge floor in accordance with NFPA 13.</p>	Within 3 months

				
4	Fire Rated Construction	<p>Penetrations through floor/ceiling assemblies are found unsealed. Location(s): Toilet waste pipe and cable riser of Building-1</p>	<p>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.</p>	Within 3 months
				
5	Fire Rated Construction	<p>Rooms used for combustible storage are not separated by fire rated construction. Location : Ground &amp; 1st floor of Building-1</p>	<p>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 fire rated barrier construction.</p>	Within 3 Months

		 			
6	Fire Rated Construction	<p>Areas used for combustible storage are not separated by fire rated construction. Location: Ground &amp; 1st floor of Building-1</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m2</li> <li>- If sprinkler protected: maximum height of 3.66m and maximum area of 93m2</li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months	
		 			

7	Egress	<p>Doors along means of egress are provided with non compliant locking feature.</p> <p>Location: Building-1 (Main Shed).</p>	<ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 RSC Technical Guidelines (Standard) 6.8.2.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. 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.</li> </ol>	Immediately
<div style="display: flex; justify-content: space-around;">   </div>				
8	Egress	<p>Storage and Electrical Panel has been found in the stair enclosure and exits discharge paths.</p> <p>Location: Building-1.</p>	<p>Remove storage from the exit stairs and egress path.</p> <p>OR</p> <p>Re-locate all electrical panels from exit stair enclosures.</p>	Immediately



9	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: Building-1 (Main Shed).</p>	<p>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.</p>	Within 3 months
10	Egress Lighting	<p>Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).</p>	<p>Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.</p>	Within 3 months

11	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 months
12	Fire Alarm & Detection system	A fire alarm & detection system has been found which is required to be reviewed and verified.	Submit as-built drawings, testing records, equipment certification (fire alarm system shall be addressable with listed) and other relevant documentation to the RSC for review. Modification (if required) shall have to done as per the reviewed design and NFPA-72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and modification within 4 months (if required).




13	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.	Within 3 months
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**Table-2: Findings & Recommendations of Building-2 (Auto Carton Shed).**

14	Fire Rated Construction	The structural elements of the building is constructed by steel which is appears to be non-rated and were found in exposed condition. Location: Building -2	Building shall be type-I or type-2 construction as per BNBC 2006 Part 3 Section 3.2.4.  Provide/ensure required fire rating on the structural elements by following Section 4.4 and Table 4.1.1 of the RSC Technical Guidelines Standard or Table 3.3.1 and Table 4.1.1 from BNBC part 4.  Consult a qualified fire protection engineer to achieve the required fire rating.	Within 6 months
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15	Fire Rated Construction	Rooms used for combustible storage are not separated by fire rated construction. Location : Building-2	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 fire rated barrier construction.	Within 3 Months
				
16	Fire Rated Construction	Areas used for combustible storage are not separated by fire rated construction. Location: Building-2	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.4m and maximum area of 23m2 - If sprinkler protected: maximum height of 3.66m and maximum area of 93m2. Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.	Within 3 months






17	Fire Rated Construction	Boiler or furnace room is not properly separated by fire rated construction with Production & storage Area. Location: Building-2.	Boilers or other heat producing equipment shall be separated from other occupancies by a minimum 1-hr 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
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18	Egress	<p>Doors along means of egress are provided with non compliant locking feature.</p> <p>Location: Building-1 (Main Shed).</p>	<ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 RSC Technical Guidelines (Standard) 6.8.2.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. 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.</li> </ol>	Immediately
<div style="display: flex; justify-content: space-around;">   </div>				
19	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: Building-2.</p>	<p>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.</p>	Within 3 months

20	Egress Lighting	Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).	Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.	Within 3 months
21	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 months
22	Fire Alarm & Detection system	A fire alarm & detection system has been found which is required to be reviewed and verified.	Submit as-built drawings, testing records, equipment certification (fire alarm system shall be addressable with listed) and other relevant documentation to the RSC for review. Modification (if required) shall have to done as per the reviewed design and NFPA-72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and modification within 4 months (if required).

					
23	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.	Within 3 months	
<b>Table-3: Findings &amp; Recommendations of Building-4 (Manual Cartoon Shed) &amp; Others buildings (3,5,6,7,8,9,10 &amp; 11).</b>					
24	Fire Rated Construction	The structural elements of the building is constructed by steel which is appears to be non-rated and were found in exposed condition. Location: Building -3,4,6,7,8,9,10 & 11.	Building shall be type-I or type-2 construction as per BNBC 2006 Part 3 Section 3.2.4.  Provide/ensure required fire rating on the structural elements by following Section 4.4 and Table 4.1.1 of the RSC Technical Guidelines Standard or Table 3.3.1 and Table 4.1.1 from BNBC part 4.  Consult a qualified fire protection engineer to achieve the required fire rating.	Within 6 months	

				
25	Fire Rated Construction	<p>Areas used for combustible storage are not separated by fire rated construction. Location: Building-4</p>	<p>Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows:</p> <ul style="list-style-type: none"> <li>- Maximum height of 2.4m and maximum area of 23m<sup>2</sup></li> <li>- If sprinkler protected: maximum height of 3.66m and maximum area of 93m<sup>2</sup>.</li> </ul> <p>Separate areas of unenclosed combustible storage by a minimum clear distance of 3m.</p>	Within 3 months
26	Egress	<p>The exit discharge path serving the northeast exit was less than 10 ft wide and was not separated from the building interior &amp; Building-01. Location: Building-4.</p>	<p>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.</p>	Within 3 months

				
27	Egress	Egress aisles were found obstructed by storage material, carton paper roll of the Building-3 (Bonded Warehouse Shed-1) and Building-7 (Bonded Warehouse Shed-3).	Remove all storage from exit stairs and egress paths.	Immediately
				

28	Egress	<p>Doors along means of egress are provided with non compliant locking feature.</p> <p>Location: Building-7 (Bonded Warehouse Shed-3).</p>	<ol style="list-style-type: none"> <li>1. Remove all non compliant locking features from egress doors.</li> <li>2. If locks are required for security reasons, utilize special door locking features complying with NFPA 101 RSC Technical Guidelines (Standard) 6.8.2.</li> <li>3. Doors may be locked where the latch and lock are disengaged with one motion where the occupant load does not exceed 49 persons.</li> <li>4. 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.</li> </ol>	Immediately
<div style="display: flex; justify-content: space-around;">   </div>				
29	Fire Rated Construction	<p>Chemical storage area is not separated by fire-rated construction having non rated door and unsealed penetrations and openings.</p> <p>Location: Building-8 (Single storied Chemical Store Shed).</p>	<p>Separate the chemical storage room by minimum 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area.</p> <p>** As per BNBC, chemical storage room shall be Type-1 construction. Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.</p>	Within 3 months



30	Egress Lighting	<p>Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes.</p> <p>Location: Building-3,4,5,6,7,8,9,10 &amp; 11.</p>	<p>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.</p>	Within 3 months
31	Egress Lighting	<p>Inspection, testing, and maintenance for the emergency lighting system was not in accordance with The RSC Technical Guidelines (Standard).</p>	<p>Inspect, test and maintain the emergency lighting system in accordance with The RSC Technical Guidelines (Standard). Keep written records on-site.</p>	Within 3 months

32	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 months
33	Fire Alarm & Detection system	A fire alarm & detection system has been found which is required to be reviewed and verified.  Location: Building-3,4,5,6,7,8,9,10 & 11.	Submit as-built drawings, testing records, equipment certification (fire alarm system shall be addressable with listed) and other relevant documentation to the RSC for review. Modification (if required) shall have to done as per the reviewed design and NFPA-72. Upon approval & modification (if required) the factory shall inform RSC to conduct final testing and commissioning verification of the system for final acceptance.	Design Review within 2 months and modification within 4 months (if required).



34	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.	Within 3 months
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