

# INITIAL FIRE SAFETY INSPECTION REPORT

**Simba Fashions Ltd (plot#124)**

**RSC ID: 24257**

**ADDRESS: Plot# 124, Adamjee EPZ, Siddirgonj, Narayanganj**

Geographical Coordinates of factory building: 23.674023101915374, 90.52769692577422

**Other Factories: None**



**Inspected By: Mohammad Anayet Hossain & Md. Anisuzzaman**

**Date: 09-November-2021**

# Fire Safety Inspection Report

Simba Fashions Ltd (plot#124)

## Introduction:

**Simba Fashions Ltd (plot#124)** complex was surveyed for fire safety on **09-November-2021** 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.

## General Factory Information

**Factory Building name(s): 1. Main Building**

**Factory Address: Plot# 124, Adamjee EPZ, Siddirgonj, Narayangonj**

### Points of contact:

1. Name: Farid Hossain  
Designation: GM (HR, Admin & Compliance)  
Contact No:01646755485  
Email: compliance@simbafashions.com

1. Name: Prodeep Kumar Guha  
Designation: Asst. Manager Compliance  
Contact No:01915531500  
Email: Complianceu2@simbafashions.com

## 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 & Recommendations**

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	Exit Enclosures are not properly fire separated from other occupancy on each floor by fire rated construction due to unprotected opening & penetration.	Provide minimum 1.5-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. 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 ACCORD standard 6.8.3.1	Within 3 months



F-2	Fire Rated Construction	<p>Elevator shafts are directly open into the production floor &amp; exit Enclosure.</p> <p>Location: Main building.</p>	<p>Ensure minimum 2-hr listed/3rd part certified fire rated lift landing doors for elevator shafts otherwise close the area of the shaft with a 2-hr fire-rated construction barrier.</p> <p>Or,</p> <p>Modify the stair enclosure and elevator opening arrangement in a way to satisfy Accord standard 6.14.3.</p> <p>For new construction, elevators shall not open into an exit enclosure as per ACCORD-6.14.3.</p> <p>Elevator landing door shall be of 1.5-hr fire rated as per Accord standard 4.6 and shall be open in factory floor .</p>	Within 3 months
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F-3	Fire Rated Construction	The exit discharge path is not fire-rated separated as the roof is continuous.	Provide minimum 2 hr. fire rated exit discharge path which will lead directly outside.	Within 3 months
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F-4	Fire rated construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.          Location: Several floor of main building.</p>	<p>Provide defined storage areas and limit the storage arrangement as follows:          Maximum height of 2.45 m and maximum area of 23 m<sup>2</sup> and is separated by a minimum 3.0 m (10ft) from other storage areas and they do not exceed 10 percent of the building area of the story in which they occur. If sprinkler protected, Maximum height 12 ft (3.66 m) and maximum area of 1000 ft<sup>2</sup> (93 m<sup>2</sup>) and separated by a at least 25 ft (7.62 m) from other storage areas and does not constitute more than 10 percent of the building area or 4000 ft<sup>2</sup> (372 m<sup>2</sup>) of the sprinklered area, whichever is greater.          or,          Enclose the storage area from the surrounding occupancy with a minimum 1 hour construction.</p>	Within 3 months
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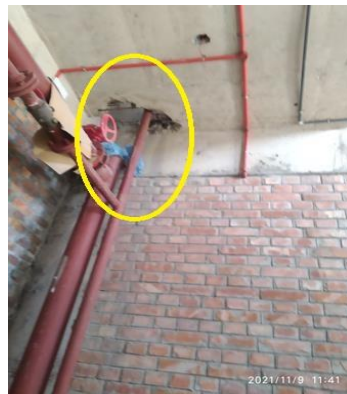
F-5	Fire rated construction.	<p>Chemical storage area is not separated by fire-rated construction due to unsealed penetrations and openings.</p> <p>Location : Ground &amp; first floor of main building.</p>	<p>Separate the chemical storage room by 4-hr fire rated construction. Seal all penetrations and protect the openings to maintain the required fire separations. Keep 16-points MSDS of all chemicals in the storage area.</p> <p>Ensure that the building/room houses chemical is Type-1 construction. As per BNBC, chemical storage room shall be Type-1 construction (Table-3.2.4 of BNBC-2006). Follow section-2.13 and Table 3.2.1 of BNBC-2006 for the guideline.</p>	Within 3 months
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F-6	Fire Rated Construction	<p>Penetrations through fire rated floor/ceiling/wall assemblies are not properly sealed all floor of each level.</p> <p>Locations: Electrical riser ,Shaft enclosures, Vertical cable tray from electrical shaft, mechanical room that goes through the fire rated assemblies</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 datasheet.</p> <p>Or, Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months
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F-7	Fire rated construction.	Unsealed penetrations and openings are located in exit stair enclosures.	Seal all penetrations and openings in the wall of exit enclosure walls (full thickness of the wall) by fire rated materials to maintain the fire resistance rating.	Within 3 months
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F-8	Fire Rated Construction	Generator are not properly separated by fire rated construction due to unprotected Opening & penetration.	Generator shall be separated by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum 1.5-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
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F-9	Fire Rated Construction	Transformer are not properly separated by fire rated construction due to unprotected Opening & penetration.	Transformer shall be separated by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum 1.5-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
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F-10	Fire Rated Construction	Boiler are not properly separated by fire rated construction due to unprotected Opening & penetration.	Boiler shall be separated by a minimum 2-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum 1.5-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
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F-11	Fire Rated Construction	Compressor are not properly separated by fire rated construction .	Compressor shall be separated by a minimum 1-hr fire-rated construction (wall, floor, slab, etc.). Seal all penetrations and openings (door, window, etc.) by minimum .75-hr fire-rated materials to maintain the fire separation as required. All exhaust systems shall discharge to the exterior of the building in a safe location.	Within 3 months
<div style="display: flex; justify-content: space-around; align-items: center;">   </div>				
F-12	Means of Egress	Aisles are not marked at several floor of Main building.	Aisles shall be provided with a minimum unobstructed clear- with of 0.9m (36 in). Means of egress shall be maintained continuously free and clear of all obstructions/storage.	within 2 months




F-13	Means of Egress	Handrails are not provided on both sides of exit stairs.	Provide handrails on both sides of the exit stair. New 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. Intermediate handrails shall be provided when the stair width exceeds 2.2 m (87 in.) .	Within 2 months
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F-14	Parapets or Guards	Parapets or guards are provided in occupied roof which is less than 1067mm (42 inch) & create falling edge hazards due to construction purpose.	Provide parapets or guards with a minimum height of 1067mm (42 inch.).	Within 3 months
				
F-15	Means of Egress	Building did not have stair designation signs & exit designation signs at required locations.	Provide stair designation sign & exit designation sign at each floor entrance from the stair to the floor in English and Bengali. Signs shall indicate the name of the stair and the floor level. Signs shall be posted adjacent to the door.	Within 1 month

F-16	Means of Egress	<p>The means of egress (three) of the ground floor on the discharge point is narrow comparing to stair width which increases the possibility of bottlenecks of the discharge system.</p> <p>Location: Three(3) means of egress of the ground floor of building</p>	Modify the width of the means of egress on the ground floor.	Within 3 months
				
F-17	Means of Egress	Building did not have occupant load signs at required locations.	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.	Within 1 month

F-18	Guards	Guards are not provided at falling hazards located at various locations of the building .	Provide all guards with a minimum height of 1067mm (42 inch.).	Within 1 month
				
F-19	Uneven/blocked exit access	Uneven path of travel and blockage in exit access due to construction purpose. Location: South & North side exit stair discharge.	Remove unnecessary items and level exit path to the public way.	Within 2 months



F-20	Means of Egress	<p>Common path of egress travel was more than 8 m for chemical store.</p> <p>Location: first floor of chemical store.</p>	<p>Reconfigure the egress arrangement so that the maximum common path of travel for group J (high hazard) occupancies shall not exceed 8m (25ft).</p>	<p>Within 3 months</p>
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F-21	Evacuation Map	Fire evacuation maps is not posted at the entrance of all exit stair.	Fire evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
F-22	Egress Lightning	Exit sign not provided at required location at exit at required location.	<p>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.</p> <p>Lighted exit signs shall be provided with either battery backup or uninterruptable power supply systems and shall be continuously illuminated.</p>	Within 3 months



F-23	Egress lighting	Directional signs are not provided where direction of the path of travel to an exit has changed.	Illuminated directional signs shall be provided where there is a change in the direction for the path of travel and the direction to an exit is not obvious.	Within 1 month
F-24	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-25	Egress lighting(ITM)	Inspection, testing, and maintenance for the exit sign and emergency lighting system was not in accordance with The ACCORD standard.	Inspect, test and maintain the exit sign and emergency lighting system in the accordance with The ACCORD standard. Keep written records on-site.	Within 3 months

F-26	Fire Alarm & Detection System (FADS)	An addressable fire alarm & detection system installation was ongoing during inspection day. The fire alarm and detection system installation requires detailed review to confirm compliance with NFPA 72.	<p>Design &amp; Installation of Fire Alarm &amp; Detection system shall be in accordance with ACCORD standard and NFPA 72.</p> <p>Submit design, documents and calculations to RSC for review prior installation/modification.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection &amp; alarm system installation.</p> <p>Also inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72</p>	Design within 2 months, Install within 6 months.
F-27	Fire Protection System(Standpipe)	Standpipe system installation was ongoing during inspection day. Standpipe system installation requires detailed review to confirm compliance with NFPA 14.	<p>Submit the standpipe system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 14.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire protection System(Standpipe) installation.</p>	Design within 2 months, Installation within 6 months.

F-28	Fire Protection System(Sprinkler)	Sprinkler system installation was ongoing during inspection day. Sprinkler system installation requires detailed review to confirm compliance with NFPA 13.	Submit the sprinkler system drawing to RSC for review. Once reviewed, install or modify the standpipe system throughout the building in accordance with Accord standard and NFPA 13. After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire protection System(Sprinkler) installation.	Design within 2 months, Install within 6 months.
F-29	Protection System(Pump)	Fire pump installation requires detailed review to confirm compliance with NFPA 20 and ACCORD standards.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval.	Design within 2 months, Install within 4 months.

F-30	Fire Protection System(ITM of Standpipe)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 14, 25 or as per Accord standard.	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 14, 25 or as per Accord standard.	Within 1 month after installation.
F-31	Fire Protection System(ITM of Sprinkler)	Inspection, testing, and maintenance for the Standpipe system is not in accordance with NFPA 13, 25 or as per Accord standard.	Inspect, test and maintain the Standpipe system, and keep written records on-site, in accordance with NFPA 13, 25 or as per Accord standard.	Within 1 month after installation.
F-32	Fire Protection System(ITM of Fire Pump)	Inspection, testing, and maintenance for the fire pump is not in accordance with NFPA 20, 25 or as per Accord standard.	Inspect, test and maintain the fire pump, and keep written records on-site, in accordance with NFPA 20, 25 or as per Accord standard.	Within 1 month after installation.

F-33	Fire Detection System (ITM of FADS)	Inspection, testing, and maintenance for the fire alarm system is not in accordance with NFPA 72 or as per Accord standard.	Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72 or as per Accord standard.	Within 1 month after installation.
F-34	Fire Protection System(Extinguisher)	Portable fire extinguishers are not install at several floor as per standard of building..	Portable fire extinguishers shall be installed throughout building in accordance with BNBC Part 4 Section 4.10 and NFPA 10 and maximum travel distance to the nearest until shall not exceed 30m.	Within 3 months
F-35	Fire Protection System(ITM of Extinguisher)	Inspection, testing, and maintenance of the extinguisher system is not in accordance with NFPA 10 or as per Accord standard.	Inspect, test and maintain the extinguisher system, and keep written records on-site, in accordance with NFPA 10 or as per Accord standard.	Within 3 months
F-36	Hot-work permit	No hot-work permit program has been established.	Hot work permit system program shall be enacted for all RMG facilities in accordance with NFPA 51B.	Within 2 months