

INITIAL FIRE SAFETY INSPECTION REPORT

Silken Sewing Ltd (New) (Extension Building).

RSC ID: 24378

Baniarchala (Member Bari), Vobanipur Joydebpur, Gazipur

Other Factories: Silken Sewing Ltd (New Building)(In this premise)



Inspected By: Pantha Pallob Das & Md. Anisuzzaman

Date: 14 March 2022

Introduction:

Silken Sewing Ltd (New) (Extension Building). Complex was surveyed for fire safety on **14/03/2022** 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): Woven Building(8 storied RCC building). currently on under-construction.

The building is designed and planned to be constructed up to 7th floor (8 storied). Currently the building is in under-construction where front side covering area approximately 20 % of entire floor area is completed up to 7th floor (fully) fully constructed and occupied up to 3rd floor. The roof construction work is under process for 4th floor, roof casting work done shuttering is not removed yet.

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 review.

Table-1: Findings & Recommendations for Woven Building

SI No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	The exit stairs are not separated from work areas and other spaces on each floor as the installed fire rated doors were not functional properly there were unprotected openings and several under construction floors.	<p>Provide minimum 2-hr fire rated exit enclosures. Provide minimum 1.5-hr fire rated doors and seal all unprotected openings and penetration to separate the exit stairs from work areas and other building spaces on all floor levels.</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. 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.</p> <p>Openings from exit enclosures to storage areas shall be provided with vestibules.</p>	Within 3 months

F-2	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling assemblies.</p> <p>Location: Electrical riser and 2nd & 3rd floor of sewage line</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</p> <p>Provide a minimum 2-hr fire rated shaft to separate the utility risers from each floor if required.</p>	Within 3 months

F-3	Fire Rated Construction	<p>Rooms used for storage of combustible materials are not separated from the surrounding occupancy/areas by fire rated construction due to non functionality of fire door.</p> <p>Location: Ground & First floor</p>	<p>Provide dedicated storage rooms separated by minimum 1 hr. fire rated 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.</p>	Within 3 months



F-4	Fire rated construction	<p>Areas used for in-process storage of combustible materials are open to the surrounding occupancy.</p> <p>Location: 2nd & 3rd floor of 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 m² 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 ft² (93 m²) 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 ft² (372 m²) of the sprinklered area, whichever is greater. or, Enclose the storage area from the surrounding occupancy with a minimum 1 hour fire rated construction.</p>	Within 3 months
-----	-------------------------	--	--	-----------------



F-5	Means of Egress	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-6	Means of Egress	<p>The exit discharge path (Egress Court) are obstructed by construction materials.</p> <p>Location: Discharge path of stair-3.</p>	<p>Means of egress shall be maintained continuously free and clear of all obstructions.</p>	<p>Immediately</p>
-----	-----------------	---	---	--------------------



F-7	Egress Lighting	<p>Directional signs are not provided where direction of the path of travel to an exit has changed each floor all level.</p> <p>Location: Woven building.</p>	<p>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.</p>	<p>Within 1 month</p>
-----	-----------------	---	---	-----------------------

F-8	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 1 month
F-9	Fire Alarm & Detection System (FADS)	Addressable fire alarm & detection system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standard.	<p>Submit design, documents and calculations to RSC for review prior and based on the review modify the system if there is any.</p> <p>After installation the owner shall contact the RSC for witness of conducting the final acceptance testing of the fire detection & 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 Review within 2 months and modification within 5 months (If require).



F-10	Fire alarm & 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 (Table-14.3.1) or as per Accord standard.	Within 1 Month after installation.
F-11	Fire Protection System(Sprinkler)	The high-rise building has an occupied floor greater than 23 meter (75 feet) and is not provided with automatic sprinkler protection.	Submit the sprinkler system drawing to RSC for review. Once the design is reviewed, install and modify the sprinkler/standpipe system throughout the building in accordance with review comment, Accord Standard and NFPA 13,14,20,22 and 24. After installation the owner shall conduct internal testing and commissioning and then contact the RSC for witness of final acceptance testing.	Design within 2 months, Install within 6 months.



F-12	Fire Protection System(Sprinkler)	Inspection, testing, and maintenance for the sprinkler system is not in accordance with NFPA 25 or as per Accord standard.	Inspect, test and maintain the sprinkler system and keep written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 1 Month after installation.
------	-----------------------------------	--	---	------------------------------------