

# FIRE SAFETY INSPECTION REPORT

## OXFORD SHIRTS LTD.

ACCORD ID: 12772

South Salna, Salna, Gazipur-1703

Other Factories: None



Inspected By: Shabbir Hossain and Pantha Pallob Das

Date: 02 March, 2017

## Fire Safety Inspection Report

Factory Name: Oxford Shirts Ltd

### Summary:

**Oxford Shirts Ltd** complex was surveyed for fire safety on 02/03/2017 by The Accord 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 Accord. 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 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 Accord for approval.



## 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 Accord for approval.

Table-1:

Sl No.	Category	Findings	Required Action	Remediation Time Frame
F-1	Fire Rated Construction	<p>Rooms used for combustible storage are not separated by fire rated construction.</p> <p><b>Location:</b> Wastage store on 8th floor, raw material warehouse on ground floor and wastage store on basement.</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>	<p>Within 3 months</p>



F-2	Fire Rated Construction	<p>Areas used for combustible storage open to the factory are not separated by fire rated construction.</p> <p><b>Location:</b> 2nd floor of the building.</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> <p>Where separate storage rooms are not feasible, provide defined storage areas and limit the storage arrangement as follows: - Maximum height of 2.45m (8ft.) and maximum area of 23m<sup>2</sup> (250 ft<sup>2</sup>)</p> <p>- If sprinkler protected: maximum height of 3.66m (12ft.) and maximum area of 93m<sup>2</sup> (305ft<sup>2</sup>). Separate areas of unenclosed combustible storage by a minimum clear distance of 3m (10ft.).</p>	Within 3 months
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F-3	Fire Rated Construction	<p>Elevator shaft is directly open into production floor without proper fire separation (Door is not fire rated).</p> <p><b>Location:</b> Cargo lift near north-west exit stair.</p>	<p>Ensure minimum 1.5-hr fire rating for the doors of elevator shafts otherwise close the shafts area with 2-hr fire rated construction barrier and 1.5-hr fire rated doors.</p>	Within 3 months
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F-4	Fire Rated Construction	<p>Unsealed penetrations and openings are located in the fire-rated floor/ceiling and wall assemblies.</p> <p><b>Location:</b> A. Electrical riser on every floor near north-east exit stair, B. Penetration on wall for transformer room (Ground floor and north-east corner utility building).</p>	<p>Seal all penetrations and openings in floor/ceiling assemblies to maintain the fire separation. For A location the entire electrical riser including other panels area shall be considered as a room for fire separation with minimum 2-hr fire rating.</p>	Within 1 months
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F-5	Fire Rated Construction	The exit stair enclosures are not separated from work areas and other spaces on each floor by fire-rated construction. Moreover, exit passageway for south-west stair is not separated by fire rated construction on ground floor.	<p>The exit stair enclosure shall be provided with a minimum 1-hr fire resistance rating for buildings with 3 or fewer stories and a minimum of 2- hr. fire resistance rating for buildings 4 or more stories. Provide 0.75 hr. fire rated door and seal all penetrations and openings by 1 hr. fire rated fire rated barrier construction for building with 3 or fewer stories. Provide 1.5 hr. fire rated door and seal all penetrations and openings by 2 hr. fire rated fire rated barrier construction for building with 4 or more stories.</p> <p>Provide a fire-resistive rated assembly between the exterior exit stairs and the building up to 10 ft. beyond the end of the stair to achieve the required separation. The rated assembly shall be approved and/or designed by a qualified fire protection engineer.</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
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F-6	Egress	<p>The exit discharge path/egress court for south-east, north-east and north-east stairs are less than 44 inch wide and not separated from the building interior due to unprotected openings for transformer rooms.</p>	<p>The minimum width of exit passageway/corridor shall be 44 inch. 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 2-hr fire separation in the case of egress court width less than 10 ft.</p>	<p>Within 3 months</p>
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F-7	Egress	Storage was located in the exit stair on most of the floors.	Remove all storage from exit stairs and egress paths.	Immediately
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F-8	Egress	Building did not have floor designation, stair designation and occupant load signage as per ACCORD Standard.	Provide floor designation, stair designation and occupant load signage at required locations as per ACCORD Standard.	Within 1 month
F-9	Egress	The ramp width for basement is 14 ft but handrail/guardrail not provided at any side of the ramp.	Provide handrail/guardrail on both side of the ramp if the width being more than 2.2 m then intermediate handrail shall be provided.	Within 1 month





F-10	Egress	Evacuation map is not posted at the entrance of all exit stairs for 6th to 8th floors .	Evacuation maps shall be posted at the entrance to each exit stair.	Within 1 month
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F-11	Egress Lighting	Exit signage was not provided along a path of egress for 6th to 8th floors .	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
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F-12	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes and at exit stairs on 6th to 8th floors. <b>Note:</b> The noted floors are not fully occupied yet where finishing works are going on.	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.	Within 3 months
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F-13	Fire Detection and Alarm System	The fire detection and alarm system is not installed as per NFPA-72, the available system and does not provide alarm and notification features consistent with acceptable standards.	<p>Install the fire detection and alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72.</p> <p>Design shall be submitted to ACCORD Chief Safety Inspector for review prior to installation of the system.</p>	Design within 4 months and installation within 9 months.
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F-14	Fire Detection and Alarm System (ITM).	Inspection, testing and maintenance (ITM) for the fire detection and alarm system is not in accordance with NFPA 72.	Inspect, test and maintain the fire detection and alarm system and keep written records on-site, in accordance with NFPA 72.	Within 03 months (After complete installation)
F-15	Water base Fire Protection System	The existing high-rise building with an occupiable floor greater than 23 m (75 ft) above the finished grade is not protected with an approved automatic sprinkler system. The large occupant loads, heavy fuel loading, and anticipated extended egress times warrant sprinkler protection.	Provide an automatic sprinkler protection along with required hose system throughout the building in accordance with NFPA 13, 14, 20, 22 and 24.  Design shall be submitted to ACCORD Chief Safety Inspector for review prior to installation of the system.	Design within 4 months and installation within 9 months





F-16	ITM (Inspection, Testing and Maintenance) of water base fire protection system.	Inspection, testing, and maintenance of the automatic sprinkler, standpipe system and fire pump is not in accordance with NFPA 25.	Inspect, test and maintain the automatic sprinkler, standpipe system and fire pump with keeping written records on-site, in accordance with NFPA 25 or as per Accord standard.	Within 03 months (After complete installation)
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