

FIRE SAFETY INSPECTION REPORT

Unisense Apparels Ltd. - Extension

Factory ID: 24089

Beraider Chala, Sreepur, Gazipur, Bangladesh.

24.200026, 90.420505

Other Factories: None



Inspected by: Md. Rakibul Alam & Md. Sadid Rahman

Date: 26 January 2021



Fire Safety Inspection Report

Unisense Apparels Ltd. - Extension

Summary

Unisense Apparels Ltd. - Extension complex was surveyed for fire safety on 26 January 2021 by The RSC Inspection Team.

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 RSC for approval.



Table 1. Findings And Recommendations

No.	Category	Finding	Recommendation	Remediation Timeframe
F-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.	<p>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.</p> <p>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.</p> <p>If fire doors are required to be held open for functional reasons, provide automatic-closing devices tied to the fire alarm system.</p> <p>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>	Within 3 months





F-2	Fire Rated Construction	Exit stairs are not enclosed by fire-rated construction.	Enclose all exit stairs in 1-hr fire-rated construction. Provide all openings to the exit stairs with 1-hr fire rated opening protection.	Within 3 months
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F-3	Fire Rated Construction	Room on the ground floor used for combustible storage is not separated by a minimum 1-hr fire-rated construction.	Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction.	Within 3 months
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F-4	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.	Provide defined storage areas and limit the storage arrangement as follows: Maximum height of 2.45m (8 ft) and maximum area of 23 m ² (250 ft ²). If sprinkler protected: maximum height of 3.66m (12 ft) and maximum area of 93m ² (1000 ft ²). Separate the areas of unenclosed combustible storage by a minimum clear distance of 3 m (10 ft).	Within 3 months
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F-5	Fire Protection	The fire alarm system installation requires detailed review to confirm compliance with NFPA 72 and ACCORD standard.	Submit as-built drawings, testing records, equipment certification and other relevant documentation to the ACCORD for review and approval/acceptance test.	Within 3 months
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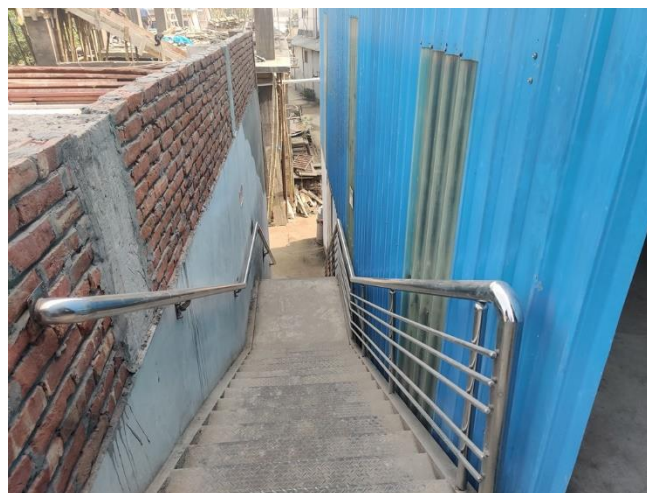
F-6	Egress	Fire evacuation maps is not posted at the entrance of the exits	Fire evacuation maps shall be posted at the entrance to each exits and exit stairs.	Within 1 month
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F-7	Egress	Occupiable roof is not provided with an adequate parapet / guard rail.	All occupiable roofs shall be provided with parapets or guards with a minimum height of 1067 mm (42 in.)	Within 3 months
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F-8	Egress	Width of exit stairs is less than 1.5 m (60 in.).	Provide exit stair minimum clear and unobstructed width of 1.5 m (60 in.) in accordance with Accord standard 6.5.6.2.1.	Within 4 months
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F-9	Egress Lighting	Exit signage was not provided at all the exits / along the path of egress / in a readily visible location.	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
F-10	Egress	Building did not have occupant load sign at required locations.	Provide occupant load sign at required locations as per Accord standard 6.4.4.	Within 1 month
F-11	Fire Protection	The required no smoking signs are not present in the factory.	Smoking is prohibited in any garment factory building or separate storage building. Signs shall be posted in Bengali and English at all building entrances. If the factory creates a designated smoking area outside the building, information of these areas will be posted on the signs.	Within 1 month
F-12	Fire Rated Construction	The exit discharge path serving the west exit is less than 10 ft wide and is not separated from the building interior.	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 6 months





F-13	Fire Rated Construction	Exterior exit stair is not properly separated from the building.	Exterior exit stairs shall be separated from the building with a rating requirement of 1 hr fire rating. The rating of the exterior wall shall extend 3.05 m (10 ft) beyond the ends of the stair structure.	Within 6 months
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F-14	Egress	Egress gates on the ground floor with locking features are provided at all exits & exit discharge.	Remove locking features from all egress gates. If locks are required for security reasons, utilize special door locking features complying with ACCORD standard 6.8.2.	Immediately
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F-15	Egress Lighting	Based on the number and location of emergency lights observed, adequate illumination levels are not anticipated along egress routes. (Ground floor storage)	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-16	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.	<p>New building shall be type-1 or type-2 construction as per BNBC 2006 Part 3 Section 3.2.4, page 10356.</p> <p>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.</p> <p>Consult a qualified fire protection engineer to achieve the required fire rating.</p>	Within 6 months
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