

FIRE SAFETY INSPECTION REPORT

V-KNITWEAR & COMPOSITE LTD
MAHANA, GOLAKANDAIL, BHULTA, RUPGONJ,
NARAYANGONJ

OTHER FACTORIES: NONE



ACCORD
on Fire and Building Safety in Bangladesh

June 2, 2014

SUMMARY

V-knitwear & Composite Ltd was surveyed for fire safety on 6/2/2014 by Hughes Associates, Inc. This summary identifies the major deficiencies that were identified during the inspection.

The purpose of this 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.

Tables 1 - 2 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. Findings And Recommendations - Building

| No. | Category | Finding | Recommendation | Remediation Timeframe |
|-----|----------|---------|----------------|--------------------------|
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|-----|----------------------------|--|---|--------------------|
| F-1 | Fire Rated Construction | The boiler rooms are not separated by fire-rated construction (openings, non-rated doors, penetrations) on the ground floor. | Separate the boiler rooms by a minimum 2-hr fire-rated construction. Seal and/or protected all openings to maintain the required fire separations | Within 3 months |
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|-----|----------------------------|--|--|--------------------|
| F-2 | Fire Rated Construction | Store rooms used for combustible storage are not separated by fire-rated construction on the ground floor. | Provide dedicated storage rooms separated by minimum 1-hr fire-rated construction. | Within 3 months |
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| F-3 | Fire Rated Construction | Areas used for combustible storage are not separated by fire-rated construction on the ground floor. | 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 23m ² - If sprinkler protected: maximum height of 3.66m and maximum area of 93m ² Separate areas of unenclosed combustible storage by a minimum clear distance of 3m. | Within 3 months |
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| F-4 | Fire Rated Construction | The exit stairs are not separated from work areas on each floor by fire-rated construction. | 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 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. | Within 3 months |
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| F-5 | Fire Rated Construction | The exit discharge path serving southeast 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. Alternatively, provide a second remote discharge path to the public way (only include this if feasible). | Within 6 months |
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|-----|--------|--|--|----------------|--|
| F-6 | Egress | Exit capacity is not adequate for the occupant load. on the 2nd floor (520). | Reduce occupant load to not more than available exit capacity (425). If possible provide additional exits in the future. | Immediate | |
| F-7 | Egress | Egress doors with locking features are provided at exit stairs on every floor. | Remove locking features from all egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Immediate | |
| | |  |  | | |
| F-8 | Egress | Sliding doors are provided at exit stairs on every floor. | Sliding doors along the means of egress with side-hinged, swinging egress doors. If locks are required for security reasons, utilize special door locking features complying with NFPA 101. | Within 1 month | |



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|-----|--------|--|--|-----------------|
| F-9 | Egress | Exit stair door does not swing in the direction of egress travel on the 1st floor. | Modify the egress door to swing in the direction of egress travel. | Within 3 months |
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| F-10 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system were not in accordance with NFPA72. | 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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| F-11 | Egress Lighting | Manual on-off switch is provided for emergency lighting units on every floor. | Remove manual on/off switches from emergency lighting units to prevent them from being switched off. | Within 1 month |
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| F-12 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The ACCORD standard. | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |
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Table 2. Findings And Recommendations - Shed

| No. | Category | Finding | Recommendation | Remediation Timeframe |
|-----|----------|---------|----------------|-----------------------|
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|-----|-------------------------|--|--|-----------------|
| F-1 | Fire Rated Construction | The exit discharge path serving west exit is less than 10 ft wide and is not separated from the building interior. | <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> <p>Alternatively, provide a second remote discharge path to the public way (only include this if feasible).</p> | Within 6 months |
|-----|-------------------------|--|--|-----------------|



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| F-2 | Egress | Egress doors with locking features are provided at building exits,. | <p>Remove locking features from all egress doors.</p> <p>If locks are required for security reasons, utilize special door locking features complying with NFPA 101.</p> | Immediate |
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| F-3 | Fire Protection | The fire alarm system is antiquated, not a listed system, and does not provide alarm and notification features consistent with acceptable standards. | Replace the fire alarm system with a new, listed addressable fire alarm system in accordance with NFPA 72. | Design within 4 months, install within 9 months |
| F-4 | Fire Protection | Inspection, testing, and maintenance for the fire alarm system were not in accordance with NFPA72. | Inspect, test and maintain the fire alarm system, and keep written records on-site, in accordance with NFPA 72. | Within 3 months |
| F-5 | Fire Protection | The building is equipped with single-station smoke alarms. Smoke alarm activation sounds only a local alarm and does not provide automatic fire alarm notification of occupants. | Replace the single-station smoke alarms. Provide automatic smoke detectors throughout the shed in accordance with NFPA72. | Within 6 months |
| F-6 | Egress Lighting | Exit sign not provided at exit. | Provide exit signs above all exits to the exterior and all doors to the exit stairs. | Within 1 month |

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| F-7 | Egress Lighting | Inspection, testing, and maintenance for the emergency lighting system were not in accordance with The ACCORD standard. | Inspect, test and maintain the emergency lighting system in accordance with The ACCORD standard. Keep written records on-site. | Within 3 months |
| 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 3 months |