

# Arjon Fashions Ltd. (9972)

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# Identified Priority 3 Concerns

## 1<sup>st</sup> Priority 3 Concern



The steel trusses need to have a longitudinal roof bracing system to provide the stability and to resist wind loading.



The factory's Structural Engineer needs to review the design to check the stability of the trusses under lateral wind load.

## 2<sup>nd</sup> Priority 3 Concern



The steel connections need to be reviewed and revised if necessary, depending on the proper designed details.

The factory's Structural Engineer needs to review the design and in particular the uplift forces on the trusses under wind uplift loads to determine if the current connections are adequate.





### 3<sup>rd</sup> Priority 3 Concern



The steel trusses have not been painted and are already corroding.

## 4<sup>th</sup> Priority 3 Concern



The steel structure have not been applied the fire proofing yet.

The fire proofing needs to be applied with minimum 1-2 hours in compliance with BNBC.

## 5<sup>th</sup> Priority 3 Concern



There are no structural design drawings for any of the steel structural members steel connections.

The factory's Engineer should survey the actual conditions and produce the drawings as early as possible.



# Overall Stability System





We require that these items be investigated as part of an Engineering Assessment

The brick columns and brick walls are the main elements currently available to resist lateral wind loads.

For a single storey building with a large plan area, this type of structure may be appropriate. However, it is required that an Engineer reviews and checks the stability of the brick walls and columns under these conditions.

The steel trusses need to have longitudinal bracing to combine the trusses as one system.

The factory's Structural Engineer needs to review the design to check the stability of the trusses under lateral wind loads.

# Priority Actions

## Problems Observed Summary

- ITEM 1: (1<sup>st</sup> Priority 3) The steel trusses need to be braced in the longitudinal direction.**
- ITEM 2: (2<sup>nd</sup> Priority 3) The connections of the steel trusses need to be reviewed and possibly strengthened.**
- ITEM 3: (3<sup>rd</sup> Priority 3) The steel trusses need to be painted properly to prevent corrosion.**
- ITEM 4: (4<sup>th</sup> Priority 3) The steel structure has no applied fire proofing.**
- ITEM 5: (5<sup>th</sup> Priority 3) The Factory's Structural Engineer to survey the actual as-built conditions and produce the as-built drawings as early as possible.**

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	1st Priority 3 - The steel trusses need to be braced in the longitudinal direction.	The factory's Structural Engineer needs to review the design to check the stability of the trusses under lateral wind load.	6-months
2	2nd Priority 3 - The connections of the steel trusses need to be reviewed and possibly strengthened.	The factory's Structural Engineer needs to review the design and in particular the uplift forces on the trusses under wind uplift loads to determine if the current connections are adequate.	6-months
3	3rd Priority 3 - The steel trusses need to be painted properly to prevent corrosion.	Provide protective paint to an appropriate specification.	6-months
4	4th Priority 3 - The steel structure has no applied fire proofing.	The fire proofing need to be applied with minimum 1-2 hours based on the code.	6-months
5	5th Priority 3 - The Factory's Structural Engineer to survey the actual as-built conditions and produce the as-built drawings as early as possible.	The factory's Engineer should survey the actual as-built conditions and produce correct and appropriate as-built drawings as early as possible.	6-months