

Probashi Knitwear Ltd. (Relocated)

Plot: 1,3,5,6,7,8, Block-N, Eastern Houseing, Pallabi 2nd Phase, Mirpur-12, Dhaka-1216, Bangladesh.
(23.835684, 90.354626)

12 November 2023

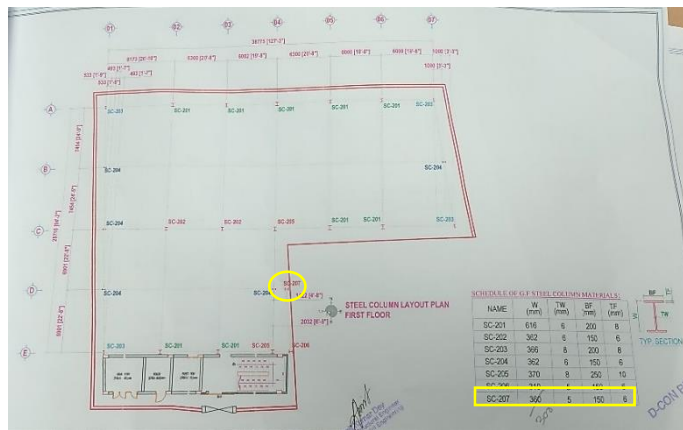


1. Building Information

Main Production Building: Two (G+1) storied prefabricated steel shed.

2. Observations:

Observation-1: Mismatch in as-built drawing. (Main Production Building)

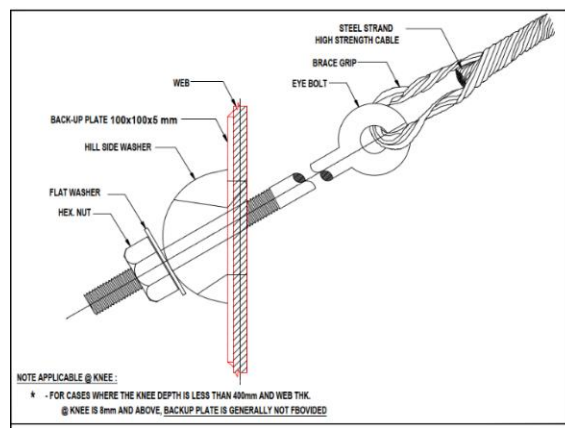


Column Layout (1st floor)



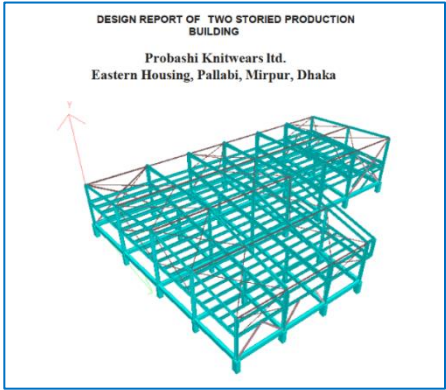
SC-207 column

Description: Web of SC 207 column on 1st floor not matched with drawings. 300 mm web was found instead of 350 mm. Moreover, the wall bracing sectional details of grid 07 did not fully match with onsite condition. The building engineer is required to survey the structure and prepare accurate as-built drawings.



Improper connection

Description: Bracings are not connected as per drawings. Only hooks bar are used for connection. Building engineer is required to update the as-built drawing with connection details.

Observation-2: Re-entrant corner and torsional irregularity check not found in the design report. (Main Production Building).	
	
3D view of the framing system (L-shaped building)	Corner of the building
Description: A set of design reports have been prepared considering Ordinary Concentrically Braced Frame (OCBF). But re-entrant corner and torsional irregularity check are not provided in the design report. The prepared design report needs to be revised incorporating the mentioned issues and submitted to RSC for review.	
Observation-3: Nut/bolt missing and connection gap in joints. (Main Production Shed)	
	
Connection gap	Bolt/nut missing
Description: Nut/bolt missing, and significant gaps observed in beam joint at several locations. Building engineer is required to install missing nut/bolts and repair the gap with suitable method.	
Observation-4: Non-structural elements not anchored or braced (Main Production Shed and Utility Building).	
	
Racks	Plastic tank
Description: Some racks on floors (Main Production Building) and plastic water tanks on the roof (Utility Building) were not anchored or braced to resist lateral (earthquake) forces. The factory is required to anchor/brace all non-structural elements adequately to resist earthquake forces.	

3. Action Plan:

Observation	Action Plan	Timeline
Mismatch in as-built drawing. (Main Production Building)	Building engineer is required to survey the structure and prepare accurate as-built drawings.	within 6 weeks
Re-entrant corner and torsional irregularity check were not found in the design report. (Main Production Shed)	Prepared design report to be revised incorporating the mentioned issues and submitted to the RSC for review.	within 6 weeks
Re-entrant corner and torsional irregularity check were not found in the design report. (Main Production Shed)	Carry out remediation work if required.	within 6 months
Nut/bolt missing and connection gap. (Main Production Shed)	Building engineer is required to install missing nut/bolts and repair the gap with suitable method.	within 6 weeks
Non-structural elements not anchored or braced. (Main Production Shed and Utility Building).	The factory is required to anchor/brace all non-structural elements adequately to resist earthquake forces.	within 6 months