

Midland Knitwear Ltd. (9511)

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Identified Priority 1 Concerns

1st Priority 1 Concern



Each bag of fabric is estimated to be approximately 25kg. As they are stacked 10 bags high, and arranged 2 bags per layer, the weight of each layer is approximately 50kg, resulting in a total weight of 500kg per stack.

Based on a plan area of 1m x 1m per stack, the equivalent live load per stack is estimated to be:
 $500/(1.0 \times 1.0)\text{m}^2 = 500 \text{ Kg/m}^2$

The maximum designed live load is 350Kg/m² (as per provided loading plans- 70psf-approximately 350Kg/m²).



1st Priority 1 Concern (Continued)



At the site, the building engineer had no information on the machines. We were not able to assess their weights. We can not therefore judge the compliance of the actual loading plan

1st Priority 1 Concern (Continued)

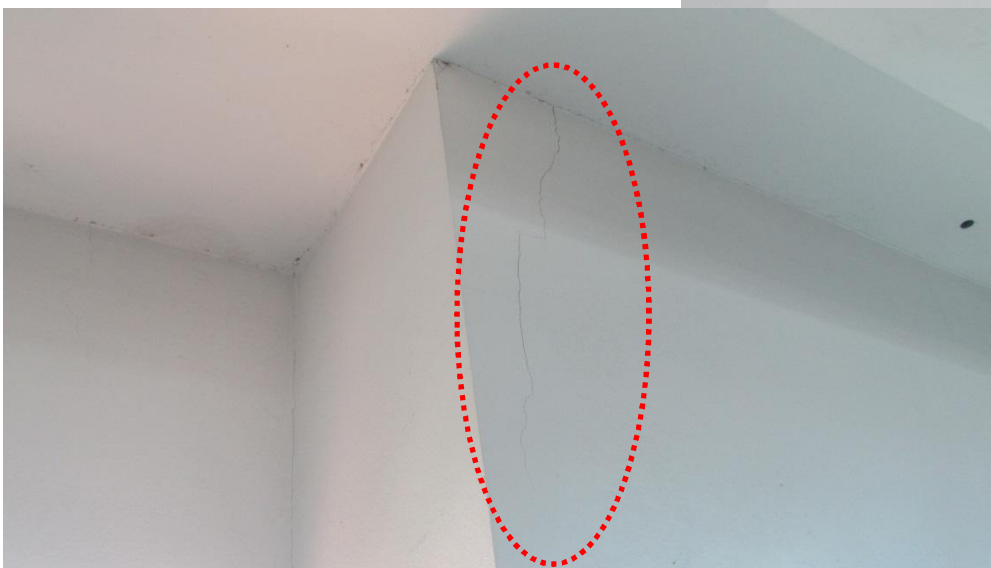
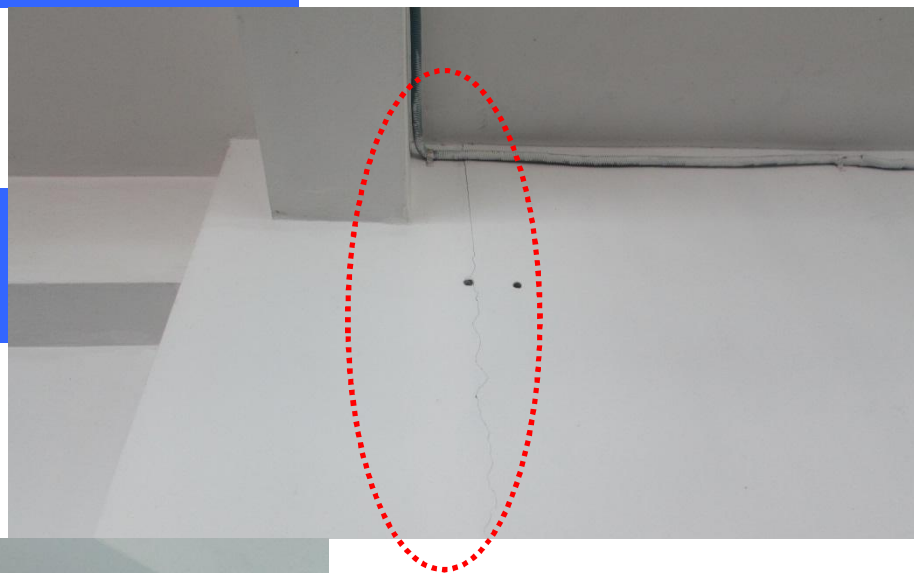
The provided loading plan shows the water tank at 2000Kg. However the actual weight of water tank on the roof floor was noted at 5000Kg



Identified Priority 2 Concerns

1st Priority 2 Concern

Some cracks are observed at site on partition wall in building 2. However no sign of water penetration is present.



Problems Observed Summary

ITEM 1: (1st priority 1) Loading intensity appears to be greater than what was designed for in some locations

ITEM 2: (1st priority 2) Some cracks found on the partition walls in building 2

Item 1 and actions

The loading intensity appear to be excessive in some locations

Priority 1 (Immediate – Now)

- Immediately reduce stacking height of fabric rolls to ensure total load does not exceed 3.5kPa (70psf)
- Building engineer to verify the compliance of using the machines on 2nd floor of building 1

Priority 2 (within 6 – weeks)

- Mark the maximum allowable height of fabric stacking to ensure full compliance
- Building engineer to verify the loading capacity of the roof beams of building 1 to support the water tank of 5000Kg

Priority 3 (within 6-months)

- None required

Item 2 and actions

Some cracks are visible on the partition walls at some locations in building 2

Priority 1 (Immediate – Now)

- None required

Priority 2 (within 6 – weeks)

- None required

Priority 3 (within 6-months)

- Consider removing existing screed, reapplying the screed with a new waterproofing layer (building 2)