

Essential Clothing Ltd

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(24.063310N, 90.314690E)

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Observations



Lack of head restraint to external wall



Missing roof bracing





Steel facade sheeting

Large opening is external wall

Longitudinal stability system is not obvious



Full height dividing wall appears non-engineered.

1000 litre water tank is placed directly on slab over toilet

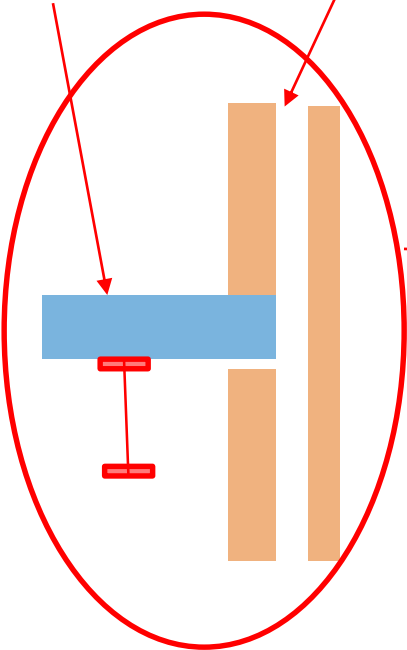


**300/400 mm concrete
build up is found in
toilet areas on first floor**



External cavity
wall

125 composite
slab



Front elevation inner leaf of external wall is supported on
cantilever on 1st floor

High internal partition
wall of 125 mm
thickness (lateral
stability a concern)





No lateral roof bracing system is observed



Non engineered roof



Non engineered structure



Non engineered structure



Structure is open to impact by cars

Observations – Building 6

Priority Actions

Problems Observed

Building 1

ITEM 1: Lack of head restraint to external walls

ITEM 2: Missing roof bracing.

ITEM 3: Longitudinal stability system not obvious

ITEM 4: Full height dividing wall appears non engineered

Building 2

ITEM 1: 2000 litre tank on roof slab to toilets

ITEM 2: 300/450 concrete build up in toilet areas on 1st floor

ITEM 3: Front elevation: inner leaf of external wall supported off cantilever 1st floor slab

ITEM 4: High internal partition wall (lateral stability)

Building 4

ITEM 1: Lack of lateral roof bracing

Building 5

ITEM 1: Non-Engineered Roof

Building 6

ITEM 1: Non-Engineered structure

ITEM 2: Structure open to impact by vehicles

Building 1

Item No.	Observation	Recommended Action Plan	Recommended Timeline
1	Lack of head restraint to external walls	Factory Engineer to review the design by calculation the external walls for wind loading, and the need or otherwise for head restraint to the top of the external masonry walls	6-weeks
2	Lack of head restraint to external walls	Carry out any remedial works required from the above review.	6-months
3	Missing roof bracing	Engineer to review the roof bracing and its effectiveness to transfer horizontal loading and by calculation justify a suitable system	6-weeks
4	Missing roof bracing	Implement all remedial works arising from the structural review	6-months
5	Longitudinal stability system not obvious	Engineer to review the longitudinal lateral system of the building and justify by calculation.	6-weeks
6	Longitudinal stability system not obvious	Carry out any remedial actions from the above review.	6-months
7	Full height dividing wall appears non engineered	The dividing wall comprises masonry wall half height and cladding for the upper height. Engineer to carry out review of the wall by calculation and design any strengthen works required	6-weeks
8	Full height dividing wall appears non engineered	Carry out any stiffening works required from the above review	6-months

Building 2

Item No.	Observation	Recommended Action Plan	Recommended Timeline
9	2000 litre tank on roof slab to toilets	Building Engineer to carry out a review and design calculations to verify that slab and columns have sufficient capacity to support the 2000 litres water tank over the toilets	6-weeks
10	2000 litre tank on roof slab to toilets	Carry out any actions arising from review.	6-months
11	300- 450mm concrete build up in toilet areas on 1st floor	Building Engineer to ensure the 1st floor composite slab is capable of carrying the concrete build –up, walls and roof slab in the toilet area	6-weeks
12	300- 450mm concrete build up in toilet areas on 1st floor	Carry out any remedial actions required	6-months
13	Front elevation: inner leaf of external wall supported of cantilever 1st floor slab	Building Engineer to review by design calculations 1st floor slab capacity to carry the external front wall on the cantilever.	6-weeks
14	Front elevation: inner leaf of external wall supported of cantilever 1st floor slab	Carry out remedial actions if required from above review.	6-months
15	High internal partition wall (lateral stability)	The dividing wall comprises masonry wall 125 full height Engineer to carry out review of the wall and its ability to resist lateral pressure by calculation and design any strengthen works required	6-weeks
16	High internal partition wall (lateral stability)	Carry out remedial works if required by above study	6-months

Building 4

Item No.	Observation	Recommended Action Plan	Recommended Timeline
17	Lack of lateral roof bracing	Engineer to review the roof structure and its effectiveness to transfer horizontal loading and by calculation justify a suitable system	6-weeks
18	Lack of lateral roof bracing	Carry out works as required from above review	6-months

Building 5

Item No.	Observation	Recommended Action Plan	Recommended Timeline
19	Non-Engineered Roof	Engineer to review by calculation the roof structure to conform to the local building codes	6-weeks
20	Non-Engineered Roof	Carry out works as required from above review	6-months

Building 6

Item No.	Observation	Recommended Action Plan	Recommended Timeline
21	Non-Engineered structure	Engineer to review the structure by calculation and propose alterations as required.	6-weeks
22	Non-Engineered structure	Carry out works as required from above review	6-months
23	Structure open to impact by vehicles	Engineer to review the possibility and consequence of the columns being impacted by a vehicle.	6-weeks
24	Structure open to impact by vehicles	Carry out works as required from above Review	6-months