Method Statement

CKYIBS Blocks

Step 1 – PROVIDE US WITH A FULL SET OF YOUR ARCHITECTURAL DRAWINGS

- Contact a CKYIBS representative and submit a copy of your architectural drawings. Once submitted, we will come up with a special set of drawings suited for CKYIBS blocks. This includes drawings for each wall and dimension as well as indication of how many pieces of each CKYIBS block is required.

Step 2 – START WITH THE FOUNDATION

- Once all the drawings have been obtained, begin casting the foundation based on the engineer's design. While casting the foundation and floor slab, it is crucial that the finishing floor is levelled. The level variation should not exceed 25mm in height.

Step 3 – CAST FOUNDATION

- Cast the foundation based on the design drawn by your engineer.
- Ensure all the starter bars and underground piping and openings are placed in the correct location according to the design plan.
- While casting the foundation and floor slab ensure the finishing floor is levelled. The level variation should not exceed 25mm in height. Proper levelling control is highly recommended to avoid the need of cutting the 1st layer of block to match the uneven finished floor level.
- Wait for concrete to cure (at least 3 days) before laying CKYIBS blocks.

Step 4 – START OFF BY ROUGHLY LAYING OUT THE FIRST COURSE

- Based on the provided drawing/plan, start by setting out the first course of the blocks according to the plan. Note the different types of blocks used for the various positions (eg. Corner block used for joints and corners and column blocks used for various columns) as per our provided drawing. Pay close attention to the positioning of the rebars. Ensure it is located in the correct position with the rebars going through the respective holes of the blocks as per the drawing provided.

- This portion is done to provide a rough idea of the size, dimensions and positioning of each wall. This will just be a temporary placement of the blocks, therefore you do not have to put the mortar mix yet. If any adjustment is required, this would be the best time to do so.
- Ensure all locations are correct with the door frames in place. At this stage, you will be able identify if any required blocks are missing. Kindly contact a CKYIBS representative should you need any additional blocks.

Step 5 – LAY OUT THE FIRST COURSE PROPER

- Once the blocks are in place, you can begin laying a permanent first course. If there should be any variance in the floor level, study the level variance and start laying at the highest point of the floor.
- Mix cement and sand mortar (1 part cement to 3 parts sand ratio), place the mortar mix on the ground where the block is meant to be positioned and place the block on top of the mortar mix with the tongues of the block facing downwards and the grooves facing up. It is advised to start laying with the corners and work your way progressively to the other end of the building. It is highly recommended that the door frames should be fixed along with the first course.
- While laying, use a spirit level to ensure that the first course is properly levelled. Lightly knock the blocks into position using a rubber hammer if it is not properly levelled.
- Once the first course is completed, allow for it to set for 24hours before laying the upper layers.

Step 6– SECOND COURSE ONWARDS

- Once the first course has been set, you can begin laying the second course. Begin with making a batch of mortar adhesive mix (same as first course). With the mortar mix, fill it along the grooves of the block on the first course and place a new block on top of the first block with the tongues facing downwards. As you continue laying, make sure that each block interlocks with each other. In the event there is a noticeable gap between blocks, fill the said gaps with the mortar mix (this is to prevent any potential cracking).
- Continue laying the subsequent courses until you reach the window opening. At this point, form the relevant lintels using the beam blocks with the number of bars as specified in the shop drawing. Bars are also to be placed through the blocks (and concreted) on the left and right side of every door/window opening forming a full frame.

- Proceed with the laying of the blocks up to the 7th course (or half of the wall height). Then place rebar at column and stiffener area. Concrete the required areas before proceeding with the upper layers.




Step 13 – Bond Beam Construction

- Continue the block laying until you have reach the bond beam level. With our Bond Beam blocks, cut off the left and right ends of the block (following the provided groove lines) and place rebar through (as pictured below) and fill the hole with concrete.
- If roof trusses is to sit on the bond beam, make sure all holding down bar is in the correct position.