

Method Statement for the Erection of Pre-Cast Concrete Stair with angle on IN SITU Landing Units.

Scope

This method statement details the procedure to be adopted by site persons placing pre-cast stairs on Insitue concrete half landings.

Responsibility.

It is the responsibility of the Erection Supervisor to ensure that this procedure is complied with in full.

Applicable Documents.

Method Statement, Company Safety Statement relative to Site activities and Flood Flooring layout drawings.

Delivery.

Company employees or sub-contractors employed by Flood Flooring Ltd will deliver stair units to site on rigid bodied trucks or articulated trailers.

Erecting units into place.

It is the responsibility of the Site Agent to ensure that the operatives of other sub-contractors are vacated from the stair core areas while Flood Flooring is erecting the stair units.

Prior to placing the units the erection supervisor will ensure:

- That both himself and his fellow erector are wearing the correct PPE applicable to the operations being carried out. Hard hats, Steel toe capped boots, High Vis. Vests, Harnesses and fall arrestors.
- He shall check that safety guardrails are in place at all entry points to the stair core area. The guardrails must be capable of taking a **10 KN** load. He shall bring any shortcomings, which may be obvious to the attention of the Site Agent.
- He shall ensure all tools that are required to erect the stair units are safe for use.
- He shall ensure that all obstructions in the stair well are removed prior to commencing the placing of units.
- He shall check with the Site Agent (Or Mobile Crane driver if applicable) to confirm that the Crane is capable of safely lifting the Stair units.
- He shall ensure that chains and lifting hooks are certified as adequate to lift the stair unit and that they are being used correctly.

Should it be necessary to store units on site, they shall be placed on timber skids no more than 3No. High for straight flight of stairs, or staked single for flights with landings, in a safe place designated by the Site Agent.

Erection of Units.

1. The first stair flight is checked for recess measurements and spacers of the required thickness are placed on the edge of in situ landing. **Follow SU_06.**
2. The first flight will be positioned by the Erection crew using radio contact with the Banksman or directly with the Crane Driver. When stair is close to landing position one erector climbs on to half landing using his ladder and hooks up to anchor provided.
3. The stair unit is levelled to its final position with the use of spacers. Follow procedure **SU_06** If spacers have to be altered, the stair has to be lifted and moved back or forward to allow erector the change of spacers. Once the unit is in place the erector on half-landing , unhooks the top chain hooks, returns to ground and leaves stair core, the erector at ground floor level unhooks the bottom hooks from stair unit. If the first flight is designed to sit flat on ground floor and requires dowels. With the first unit in its final position erector will secure the bottom step with a prop from movement if 1st step requires spacers. The Contractor will drill required holes for dowel bars through the opening in the first step and inserts required dowel bars and grout them before stair is to be used.
4. Before the next flight is lifted the erector checks the opening measurement of the distance from half landing to next floor level. Measurement to be taken as shown in Sketch – 1
5. The erector checks than the measurement on stairs to confirm the correct fitting space. Measurement on stairs to be taken as Sketch - 2
6. Prior to fitting the second flight the erector at ground floor level positions the ladder on the first flight and climbs onto first floor level where he hooks onto an anchor point or hand rail provided by the Main Contractor capable of holding **10 KN** and steps out of core. This anchor point has to be provided at the half landing levels also.
7. The crew is now in place to fit the second unit. Once in place, the erector climbs up to half-landing level, hooks up and unhooks the bottom crane hooks and the erector and first floor level unhooks the top crane hooks.
The positioning of spacers or changing of spacers is carried out as per first flight procedure. Always follow **SU_06** to place spacers.
8. When stairs up to first level are in place 4. to 7. is repeated until all the units are in place.
9. When all the units are in place the Site Manager must organise the erection of handrails and edge protection within the core to allow it to be used as a means of access and egress through the building.

Trimming of units

NO trimming of landing units by Erectors is allowed!