

## Precast Projects Contractor Guidelines

### First Stage: Design and drawings review:

In addition to the documents uploaded to the Malath website, the following documents must be provided:

Framing Plans, Shop Fabrication, and Erection drawings including dimensions, materials, and connections for each precast element.
Manufacture technical data sheet with stress reports.
Design files and calculation notes.
Method of a statement clarifying stages, installing precast elements sequencing, and connection methods.
Compressive Strength test results.
Accessories materials submittal (joint sealants – Anchors – plates – pads – grout ).

### Second stage: Site inspection visits stage:

The contractor must request the inspection visit 4 days before the visit date.

The technical inspection visit will be after the supervisor engineer's visit as follows:

#### **1) Inspection visit for foundations:**

- The Contractor must apply the work requirements as mentioned in the soil report for excavation level, blinding concrete, backfilling, soil type, tests required, compaction under the foundations, and the ground slab.
- The contractor must provide the compaction test results in case of soil improvement and must document the soil improvement works with pictures and send them to the inspector.
- The technical inspection visit will be after the installation of the foundation is completed.

#### **2) Inspection visit for ground floor columns and beams:**

- The contractor must provide photos and tests of the waterproofing of the foundations and column necks before the grade beam inspection visit.
- The contractor must provide the compaction test results of the backfilling before the grade beam inspection visit.
- The technical inspection visit will be after the installation of the columns work is completed.
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#### **3) Inspection visit for ground floor Slab:**

- The technical inspection visit will be after finish installation of the slab (Hollow core or Double Tee) work is completed.

#### **4) Inspection visit for Waterproofing:**

- The technical inspection visit will be after the isolation of all slabs is completed.

## 5) Final Inspection visit:

- The Technical inspection visit will take place after the end of all work on the project including finishing works.

## 6) Building Envelope Inspection Visit:

- The Technical inspection visit will take place One Year after the Final Inspection Visit.

### Requirements must be provided before the final visit:

- The concrete compressive strength test results.
- Samples of used steel reinforcement delivery notes.
- Results of any tests mentioned in the soil report before issuance of the final report.
- Waterproofing warranty certificate with waterproofing technical data sheet.
- Precast Warranty certificates.
- Facade warranty certificate stamped by the execution body.
- Load tests for precast.

### Notes:

- Any violation of the Saudi Building Code, or non-conformity with the construction plans represented by the client, the inspection visit will be rejected, and the client must pay the additional visit fees to the TIS company (690 SR including VAT), after which the additional visit will take place for the rejected stage, a technical report will be issued to the insurance company documenting the rejected stage.
- A warranty certificate must be provided for construction items for which no design files, structural analysis reports, data sheet or specifications manual have been sent, as well as for the use of innovative and new building materials or techniques.
- In the case of skipping any inspection stage, the client must pay the post-pouring inspection fees, which will be quoted separately for issuing technical reports and performing tests on site.