

# **Carlow Concrete Site Requirements**



## **ATTENUATION TANK INSTALLATION RIVA Homes, Croft St, Birkenshaw, Bradford, BD11 2HT**

### **NOTE-**

**Inspection of the completed excavation will take place on the Wednesday prior to our start on the Monday.**

**Due to programming of site crews and deliveries no excavation inspection will take place on Thursday or Friday we need to mitigate the risk if works are cancelled as all parties may incur costs with crews / pumps/ concrete/ transport etc.**

**Cancellation of the installation 72 hours before commencement will incur abortive works costs at our full daywork rate as per our quotation.**

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**1 Carlow Concrete pre-start checklist**

<b>RAMS</b>	
<ul style="list-style-type: none"> <li>Method statement read and understood by all / signatures</li> </ul>	
<b>Drawings</b>	
<ul style="list-style-type: none"> <li>Construction drawings issued and received</li> </ul>	
<b>ITP</b>	
<ul style="list-style-type: none"> <li>Permit to work in the excavation</li> </ul>	
<ul style="list-style-type: none"> <li>Prepour inspection</li> </ul>	
<ul style="list-style-type: none"> <li>Post Pour inspection</li> </ul>	
<ul style="list-style-type: none"> <li>Weekly allocation sheets labour/plant</li> </ul>	
<ul style="list-style-type: none"> <li>Record of photos</li> </ul>	
<ul style="list-style-type: none"> <li>Completion / handover sheet</li> </ul>	
<b>Reinforcement</b>	
<ul style="list-style-type: none"> <li>Reinforcement delivery dates</li> </ul>	
<ul style="list-style-type: none"> <li>Mars bars</li> </ul>	
<ul style="list-style-type: none"> <li>Chairs</li> </ul>	
<ul style="list-style-type: none"> <li>Mesh</li> </ul>	
<ul style="list-style-type: none"> <li>Rebar</li> </ul>	
<ul style="list-style-type: none"> <li>Tying wire</li> </ul>	
<b>Safe access into the excavation</b>	
<ul style="list-style-type: none"> <li>Permit completed</li> </ul>	
<b>Excavation</b>	
<ul style="list-style-type: none"> <li>Base laid to falls and well compacted</li> </ul>	
<ul style="list-style-type: none"> <li>Correct levels for blinding</li> </ul>	
<b>Delivery</b>	
<ul style="list-style-type: none"> <li>Delivery schedule agreed</li> </ul>	
<ul style="list-style-type: none"> <li>Correct lifters and slings</li> </ul>	
<b>Insitu Concrete</b>	
<ul style="list-style-type: none"> <li>Confirm delivery date , time and slump</li> </ul>	

**Client's responsibility**

It is the Clients responsibility prior to commencement of installation to confirm the following:

- **Acceptance of the Carlow Concrete Health and Safety documentation,**  
**(Risk assessments, method statements etc.)**
- **Ensure there is adequate access to the proposed installation location for all deliveries and banked as required.**
- **Ensure the works area is available & unobstructed on the agreed dates.**
- **The excavation is completed as per Carlow Concrete drawings.**
- **Corners and levels will be set out prior to commencement on site.**
- **Safe and unobstructed access into the excavation and the tank ie scaffold etc**
- **Fully disclose any information that may affect the installation process.**
- **The Client will be responsible for the control of all water ingress & ground water to the works at all times .**
- **Provide all necessary plant as outlined, of sufficient capacity, on the dates required.**
- **Provide adequate waste disposal facilities unless otherwise agreed**
- **Inclement weather may affect the works, concrete pours may be cancelled within a 24 hour period.**
- **Pre pour inspections will be completed with the clients representative / site engineer or foreman.**
- **Please note-Carlow Concrete will not take responsibility for the positioning of the tank or determining working levels.**

## **2. Scope of Works:**

Carlow Concrete will supply precast units to form the tank. The system comprises of precast concrete external wall units, an insitu reinforced concrete floor, and prestressed roof slabs with an in-situ concrete roof screed.

Carlow Concrete will install the tank.

Carlow Concrete will visit the site in advance of installation works commencing to ensure all works, to facilitate the installation of the structure, are complete & in accordance with the specification.

The installation programme & quotation are based on a 3 / 4 operative installation team and a 9 hour day.

Mobilisation and demobilisation of plant is to occur outside of these hours.

**As the provision of plant and materials is specifically excluded from the installation cost, under no circumstances will Carlow Concrete accept charges directly or indirectly associated due to bad weather , short lifting duration ( 9 hours lifting required per day to achieve programme) , restricted access , incorrect size of crane , rigging crane with ballast etc .**

### **Base Preparation:**

Once the excavation is complete the Carlow Concrete representative will visit site to confirm programme, delivery etc.

The tank will be constructed on 75mm levelling strips and 75mm concrete blinding base slab laid to falls.

### **Perimeter Walls:**

The external walls are precast reinforced concrete.

The joints between the wall units are sealed with in-situ concrete.

### **Floor Slab:**

The floor slab is cast in-situ with **steel mesh reinforcement** Top and Bottom.

### **Internal Walls:**

The internal wall units are precast and will be placed on a bed of mortar.

### **Roof:**

The roof is constructed with prestressed concrete units. The roof is completed with concrete screed and reinforced with wire mesh.

## **3. Programme of works**

Work will be carried out as per the Carlow Concrete installation Programme.

See Attached Installation programme.

3/4 site operatives will install the precast tank.

## **4. Access and Egress**

Safe access into the excavation and into the tank is required once all precast external walls are in place.

It is critical the base of the excavation is clean, dry and in a safe condition before starting work.

The excavation must be free from groundwater while work takes place, Client will control this.

Subject to groundwater conditions this may necessitate a sump and pump at an appropriate location in the excavation.

## **5. Site Requirements**

Client shall provide and maintain hard standing, roadways and stacking areas, entirely suitable for the operations and for the safe passage and working of personnel and plant including levelling if necessary. Maintenance of the same should consider deterioration due to adverse weather, continued use, etc. The hard standing for the crane must also be maintained.

Where craneage is working, Client must consider the work area to be an exclusion zone to all other personnel, including the areas in our operation. That is except the erectors carrying out the work.

Client shall take adequate precautions, i.e. area cordoned off & signed accordingly, so to ensure that other trades and members of the public are protected.

Scaffolding for access and to the perimeter of working areas, together with handrails, guard-rails, platforms or stages required to prevent operatives falling shall be provided and installed by Client.

### **Lift Plan / Contract Lift**

The lifting operations will be carried out by Clients nominated Lifting Company.

A site visit is carried out by the Lifting Contractor / Client and the lift plan will be drafted taking into consideration the following-

- Ground Conditions
- Selection of suitable equipment
- Position of equipment
- Effective communications
- Trained and competent personal to include signaller and slinger
- Weight of Precast units to be lifted
- Access
- Safe method of works
- Reach

After meeting the site team, the lifting representative will draft the Lifting Plan for site works, **please see Carlow Concrete drawing for precast weights.**

The crane hard standings will be agreed and highlighted on the Lifting Plan agreed with Client prior to work commencing.

(To be confirmed and completed by the crane supplier prior to commencement of works)

**The lifting company will supply to site all personal required as part of the contract lift.**

The slinger/signaller will be in control of all lifting. The crane operator will follow the slinger/signaller direction only and with the assistance of the Banksman if required, will unload and place all the units in a safe manner in order to proceed with the installation.

## **6. Plant and Attendances**

### **Plant and materials required for Tank Installation and supplied by Client.**

1 No. Mobile Crane. (Size TBC crane supplier / Contract Lift) *concrete skip*

1 No Concrete pump. (size TBC)

Concrete skip and crane in place of pump if required to complete wall joints.

All insitu concrete as per Carlow Concrete Specification.

Mortar to bed in precast internal walls and roof slabs.

Site lighting.

Safe access into the excavation at all times , safe access to the tank at all times, leading edge protection etc.

Please see Carlows quotation re plant days ie Mobile crane , concrete pump estimate etc.

**Carlow may drop a crane day and supplement it with a concrete pump if required, the install programme will indicate plant requirements.**

**We will endeavour to utilise plant as productively as possible.**

### **Carlow Concrete will not be responsible for the supply of the following;**

Provision of any plant required, cranes, concrete skips, mini-digger, micro dumper, concrete pump, excavators, water pumps etc.

Temporary works or temporary works design,

Excavation works,

Access to works area,

Concrete & mortar.

Dewatering of the excavation.

Traffic management inc banking.

## **7. Plant and Materials by Carlow Concrete**

All precast components

All required Formwork

Capstans lifters, wire loop lifters and all required certs.

Precast wall sections external and internal.

Precast roof slabs

Hessian protection for the base slab if required

Base, wall joint and roof reinforcement.

6 pairs of lifting web straps used to unload the precast units WLL 5t each with a basket lift at 45° 9t each.

Confined Space entry equipment inc winch and tripod only if required.

## **8. Material – Delivery and placement**

Deliveries will be planned as per the installation programme and site advised of the delivery schedule.

Full delivery schedules will be issued to site prior to starting the works.

Precast will be delivered on flatbed trailers and curtain side trailers.

All precast units will be unloaded and placed with mobile crane as part of a contract lift









