

Project	Extension to cold storage	
Client	Edeka	
Date	27-10-2008	
Done by	Óskar Alexander Kristinsson	

Activity description:

Making formwork for foundation with forms from Peri

Making floor construction in the container covering and fire parapet

Material description

Object:	Material		
	Formwork PERI TRIO	529	m ²
	Concrete 5	18	m ³
	Concrete 25	513	m ³
	Reinforcement bars	16079	kg

Work description

1. Formwork: checked, oiled and put in place.
2. Prefabricated reinforcement placed between forms.
3. Concrete: casted by concrete pump .
5. Each layer compacted by stick vibrator.
6. Curing of fresh concrete-according to descriptions.
7. Casting subfloor
8. Casting screed

Quality

1. Formwork -made according to drawings and descriptions.
2. Concrete quality-according to specifications.
3. Reinforcement must be made according to drawings and specifications.
4. Curing concrete - according to specifications and processcontrol plans
5. Photo documentation must be made during the process.

Control

1. Control quality and arrangement of formwork.
2. Control concrete's consistency before casting.
3. Control method of laying out concrete, thickness: layers, covering.
4. Control how vibrating is done, see drawing of vibration.
 - distances between places where it is immersed
 - vibrator shall not touch the reinforcement

Workers

1. Concrete Crew, crew of 4 people.
2. Concrete pump operator
3. Vibrator operator.
4. Concrete truck operator.

Safety plan

1. Wearing safety helmets and boots is obligatory for workers.
2. First aid equipment and telephone must be on site.
3. Safety glasses must be used during concrete works.
4. Ears' protection should be used by worker who works with vibrator.
5. Support on walkie-talkie, gesture comunication is also appropriate.
6. No passage under the pump's arm when pump is working.

Equipment

1. Hand tools for the concrete crew
6. Saftey equipment

Machinery

1. Crane
2. Concrete pump
3. Stick vibrators
4. Concrete truck

Demands for machinery and workers

Crane's operator: Must be qualified

Crane: Shall be on operation area

Pump's operator: Must be qualified and well prepared.

Pump: Operation area: 25m

Vibrator's operator: Must be qualified.

Vibrator: Height 5-10m, diameter: 57mm

All machinery should be totally operative and properly exploited.



Work description

Execution period: 02.01.2006 - 16.01.2006

Project	OFFICE BUILDING	
Client	BHH1 APS	
Date		
Made by	Edward	

STEP 1

The basement concrete works start with The order of all materials needed for The works. The concrete works should take place according to The tact plan. Materials need to be checked on delivery and then arranged in order of use– to avoid spending time on looking for the right one.

STEP 2

- Near the completion of the foundation works,
- Steel reinforcement and concrete forms are delivered on site - it should be checked and arranged in order to be cut and bent.
- Fabrication of the basement wall starts -all drawings concerning reinforcement should be scrutinised before.
- Cleaning and preparing all materials and components needed for casting the wall.

STEP 3:

- Putting forms on starts with the outer layer first
- Reinforcement placed by crane into it's designed place; Spacers must be used to ensure the correct concrete cover
- Putting second side of formwork,
- Formwork should be supported against the side of beam trenches using wooden struts and cleats,
- It is important to place starter bars from the external wall, these bars will connect reinforcement from external and internal walls.

STEP 4:

- Casting of external wall by concrete pump, vibrating
- Curing of concrete

STEP 5:

- Taking forms off,
- Putting forms on where the internal walls are designed to be,
- Placing reinforcement,
- Putting on second side of forms,
- Casting internal walls by concrete truck concrete pump

STEP 6:

- The same procedure for the rest of the internal walls

STEP 7:

- Preparing subsoil under designed floor slabs - compacting and leveling
- Dividing floor area into working parcels
- Arranging reinforcement
- Concrete pouring and compacting
- Concrete surface bluring
- Curing of fresh concrete - cracks incising, protecting, filling; concrete surface covering

