

## Production card

### Concrete Works: Walls

**Execution period:** 20/05/2013-29/05/2013

<b>Project</b>	SVANEKØKKENET AARHUS	
<b>Client</b>	VIAConstruction Ltd	
<b>Date</b>	19/05/2013	
<b>Done by</b>	Maria Amparo Prieto	

#### Activity description:

*Build basement walls with formworks.*

#### Material description

Aluminium Formworks "Støbeforskalling- alu"	110	m2
Concrete 25	65,28	m3
Reinforcement Y8	147,82	kg
Reinforcement Y10	104,3	kg
Reinforcement Y12	363,37	kg
Reinforcement RIONET 10010	5853,4	kg
Mineral wool insulation	242,92	m2

#### Work description

1. Formworks: checked, cleaned, oiled and put in place.
2. Reinforcements: placed between formworks.
3. Concrete: casted by concrete pump.
4. Concrete: Each layer compacted by stick vibrator.
5. Curing of fresh concrete-according to descriptions.
6. Mineral wool insulation: placed.

#### 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. Insulation quality according to specifications.
6. 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.

#### 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 communication is also appropriate.
6. No passage under the pump's arm when pump is working.

#### Equipment

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

#### Machinery

1. Crane
2. Conveyor belt
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





## WORK DESCRIPTION

### STEP 1

The basement concrete works start with The order of all materials needed for The works.  
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

Steel reinforcement and concrete forms are delivered on site (it should be checked and arranged in order to be cut and bent.)  
Cleaning and preparing formworks

### STEP 3

Reinforcement placed by crane into it's designed place; Spacers must be used to ensure the correct concrete cover

### STEP 4

Placing formworks

### STEP 5

Casting by concrete pump and vibrating  
Curing of concrete

### STEP 6

Taking forms off

