

Practice 1 Answer:

Item:	Drawing number(s):	Measurement, volume or quantity (add 5% wastage to all volume calculations):
Determine the volume of concrete required for the level 1 suspended slab. (Level 1 slab is 220mm thick. Do not use elevation drawings as they show a finished floor and ceiling height)	85263 / CD / A02.03 (floor plan)	108.88m ³ If adding 5% wastage, then the volume will be 114.33m ³
What is the riser and tread measurements for the basement stair that runs between Basement and Ground level?	85263 / CD / A02.02	Riser = 178mm Tread (Going) = 250mm
What is the diameter of the bored piers to be installed for the basement retention and what elevation of the basement are they to be installed?	85263 / CD / A02.08	450mm diameter piers to be installed on the Western edge of the basement cut.
According to the aluminium door and window schedule, what is the dimensions of the window to be installed in Bed 1 of units 1, 5, 10, 15, 20 & what quantity of This window do you need?	85263 / CD / A08.01	Window Height: 1100mm Window Width: 1810mm Window Quantity = 5

Practice 2 Answer:

Item:	Resources required
If each concrete truck has a capacity of 6.2m ³ , how many concrete trucks will be required to pour the Level 1 slab?	18.44 trucks = 19 trucks.
If the concrete pump is able to pump and place 40m ³ per hour and 1 qualified concretor can place and finish 8m ³ per hour, a. How long should it take to pour the slab with the concrete pump? b. How many concretors will you need if you want to have the slab placed and finished in 6 hours?	a. 3hours & 36mins to pour the level 1 slab b. 3 concretors required to place and finish
Determine the equipment required if each concretor needs 1x rake, 1x mag float & 1x trowel to finish the concrete slab and for every 3 concretors you will require 1 shovel & 1 vibrator,	3 x rakes 3x mag float 3x trowel 1x shovel 1x vibrator

Practice 3 Answer:

To: **Joes Concrete supply Co.**

Dear Joes,

Hope you are well

I would like to order 18 trucks with a 3m³ plus load concrete on Monday 3rd of October to Lot 8 Rees Court, Palm Beach Qld 4221 with concrete pump. Could you please arrange these 18 trucks drive in the different 30 minutes time frame so those trucks will not wait too long on site as the site only fits one truck on to the pump at a time. The work will commence at 6.30am and the concrete pump is required to set up at 5.30am.

Should you have any queries, please do not hesitate to contact me.

Yours truly,
Jie Dong

To: **Peggy's concrete finishing crew.**

Dear Peggy,

Hope you are well.

I would like to hire 3 concreter finishing crews from you on 3rd October to place and finish concrete work in 6 hours at the site of Lot 8 Rees Court, Palm Beach Qld 4221 starting at 6.30am

The following equipment required for each concretors and please include in your quote.

- 3 x rakes
- 3x mag float
- 3x trowel
- 1x shovel
- 1x vibrator

Could you please kindly send me the quote with details and ensure those 3 concretors will be on duty on time.

Should you have any queries, please do not hesitate to contact me.

Yours truly,
Jie Dong