

## Instructions how to Set Out Profiles

BCGBC4018A (5904) - Apply site surveys and set out procedures to building and construction

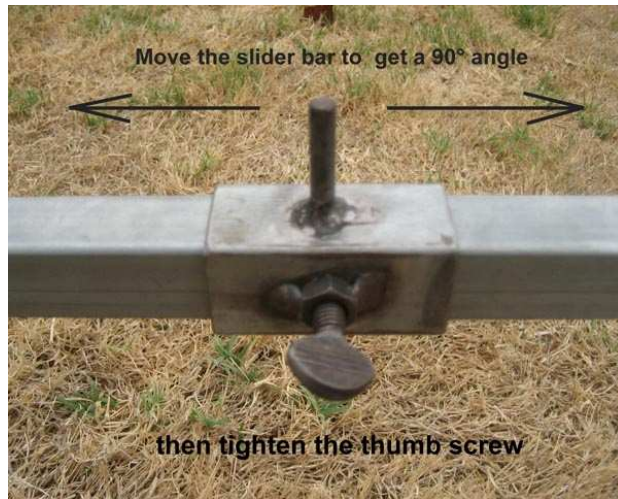
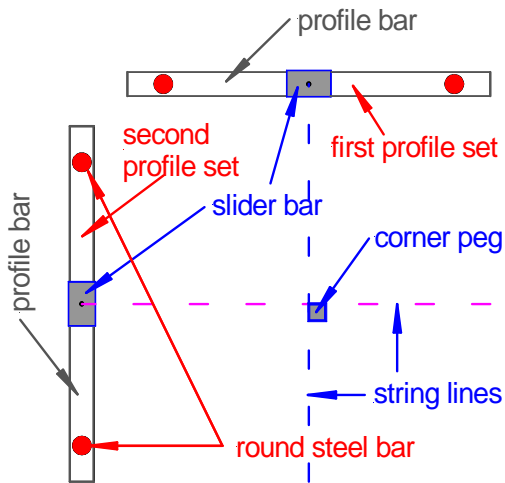
These instructions are for our new easy adjustable steel profile sets. Follow the instruction below to set out buildings (*refer to project*) on grassy area at the south west corner on the college ground.



- Roughly peg out all corners of the building.
- Lay the steel profile bar approx. 700 mm from a corner peg parallel to the building line.
- Align the round steel bars with the holes in the profile bar (see figure above).
- Vertical (use staff bubble) hammer one steel bar into the ground to a stable depth (protect steel bar top).

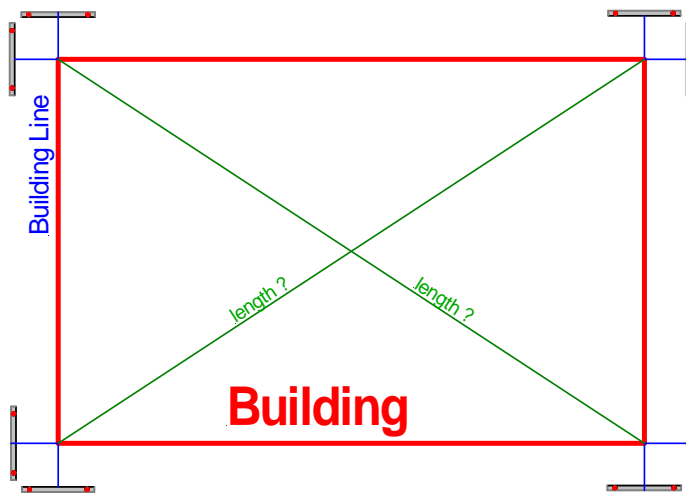


- Position the other steel bar and slide the profile bar down both bars.
- Hammer in second steel bar to a depth of approx. 50 mm.
- Take off the profile bar.
- Then hammer the second steel bar into the ground (always protect steel bar top).
- Slide the profile bar down the steel bars again to the required RL.
- Secure height of profile bar by tightening the thumb screws.



As soon as first profile has been set up at one corner peg on building line, repeat this step for the second profile set to enable string line this corner peg as shown in the above left figure.

Set the height of both profiles to a level above the benchmark (RL 93.670) in incremental values of 50 mm. Use the collimation method to set all profiles of the same level. For corners you'll need two profile sets. Repeat these steps for all other building corners (see figure below).



When all profiles have been set up, string the outline of the building to the required measurements. It is very important to establish a 90° angle **before** you do offset measures. Measure the diagonals to check whether your angles are exactly 90°

Check all dimensions and right angles of the building. Make sure all corners are at 90° and measure the diagonals to verify. Have the assessment sheet ready for the lecturer to sign off.

**Make sure all steps in your field notes are properly documented.**

**When all requirements have been satisfied,  
inform that lecturer shown on your booking form.**

**The lecturer will assessed your project in order to determine if it meets  
the assessment requirements.**