



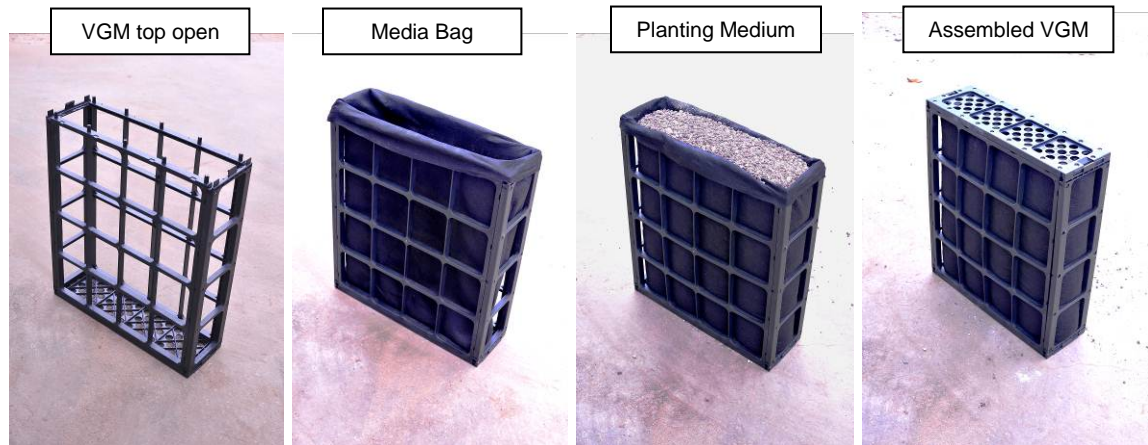
**METHOD STATEMENT**  
**FOR**  
**ELMICH GREEN WALL**  
**VERTICAL GREENING MODULE (VGM)**

**PREPARED BY**  
**ELMICH PTE LTD**

## METHOD STATEMENT

### ELMICH GREEN WALL VERTICAL GREENING MODULE (VGM)

#### 1. VGM



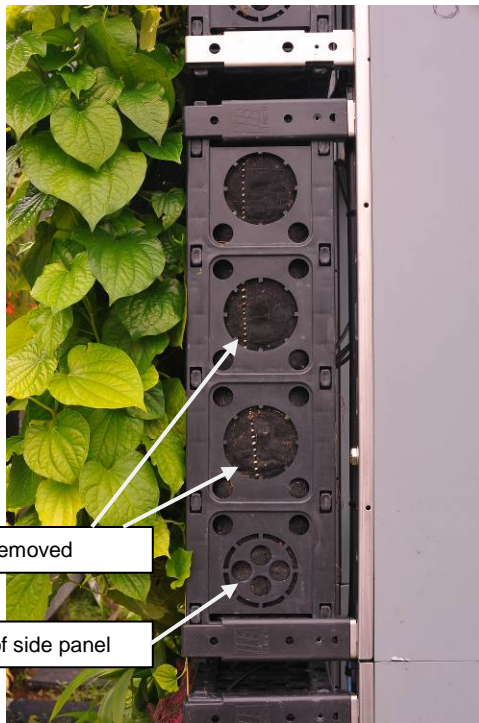
- 1.1 Assemble VGM modules leaving removable top open
- 1.2 Yellow triangle on front and back panels should be at the top
- 1.3 Insert custom-fit planting media bag into module
- 1.4 Fill media bag with planting medium flush with top of module
- 1.5 Fold mouth of media bag to prevent spillage of media and attach VGM cover

## 2. Pre-plant VGMs in Nursery Environment



Make slit in Media Bag to insert plant

2.1 Make slits in media bag and insert selected green wall plants, 1 plant per aperture



Centre disk removed

Centre disk of side panel



Planted side panel

2.2 If side planting is required, cut and remove centre disk of side panel





- 2.3 Allow at least 12 weeks for plants to firmly establish in nursery environment
- 2.4 Orientate plants to growth from a wall by progressively tilting VGM modules from horizontal to vertical over the 12 weeks

### 3. Prepare Wall for VGM Installation



RC Wall

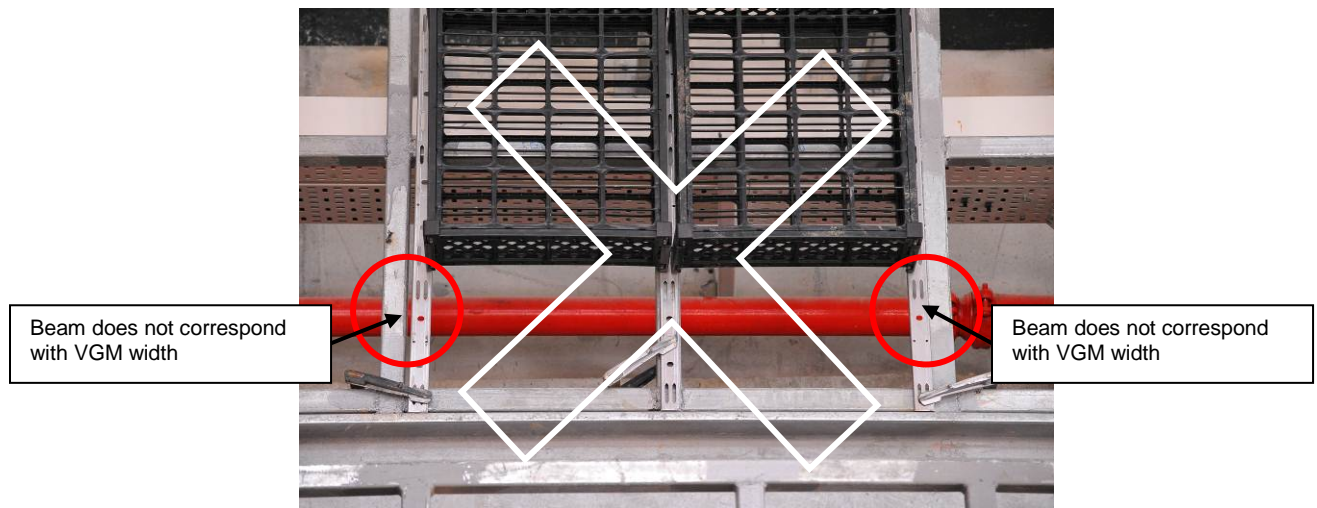


Staging



Framework

- 3.1 Prime RC wall and/or construct framework (including waterproofing, painting, welding, etc) according to project requirements

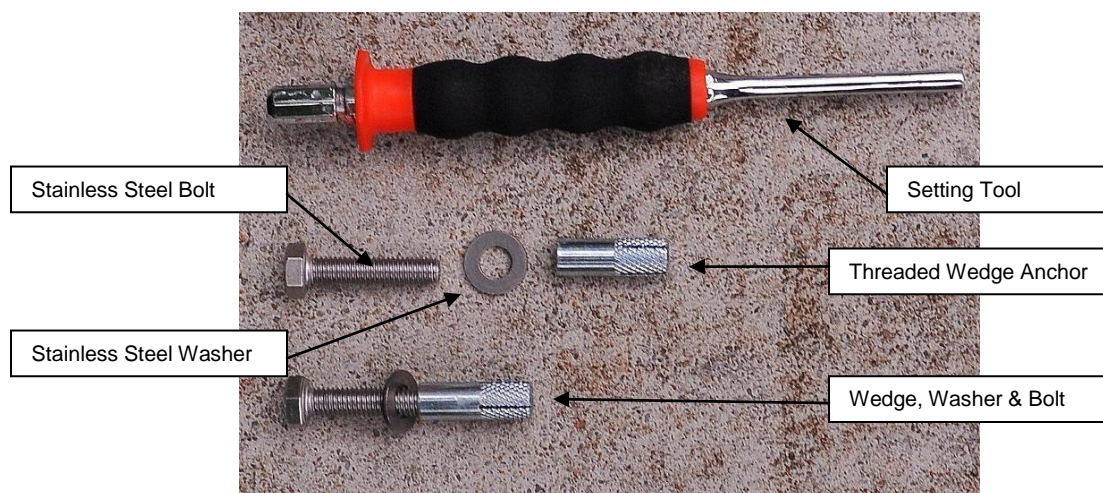


3.2 Vertical beams of framework MUST correspond precisely with VGM width for pilaster installation

3.3 Erect staging for work on high wall

#### 4. Install Pilasters

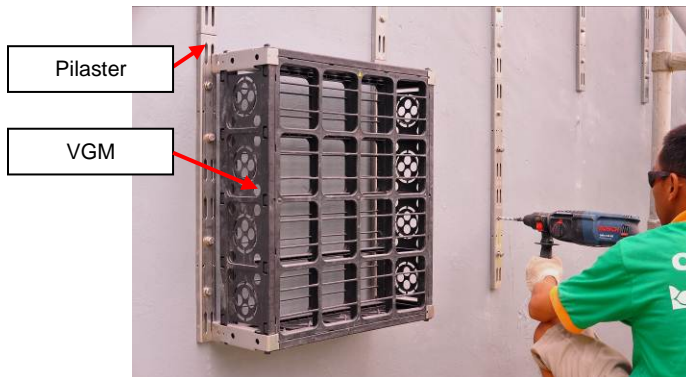
4.1 Take vertical and horizontal wall measurements to determine position of first pilaster (anchor rails) according to project requirements



4.2 Drill holes at all securing points to required depth using drill bit diameter corresponding with anchor used. Blow out dust and fragments

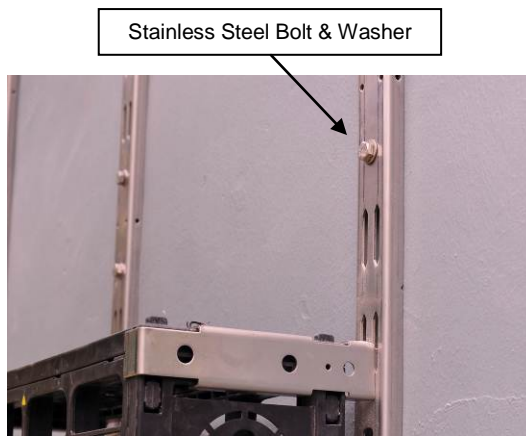


- 4.3 Pilaster positions MUST register with width of VGM and all pilaster mounting slots align



Assembled VGM modules assist in alignment of pilasters

- 4.3 Use assembled VGM modules to assist in accurate alignment of pilasters

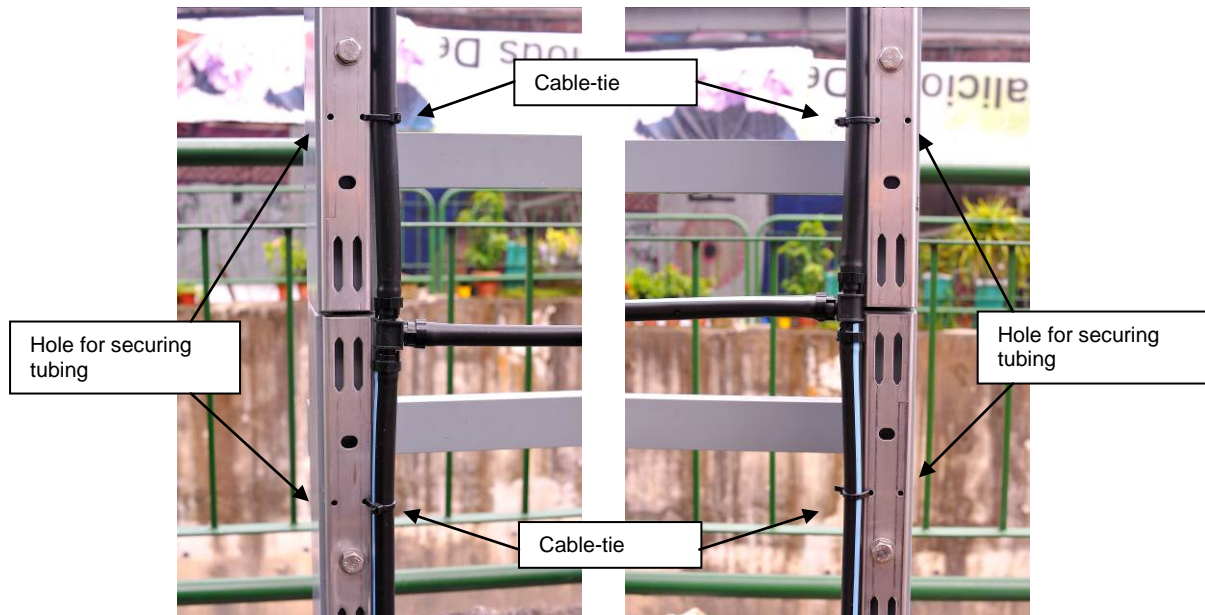


RC Wall

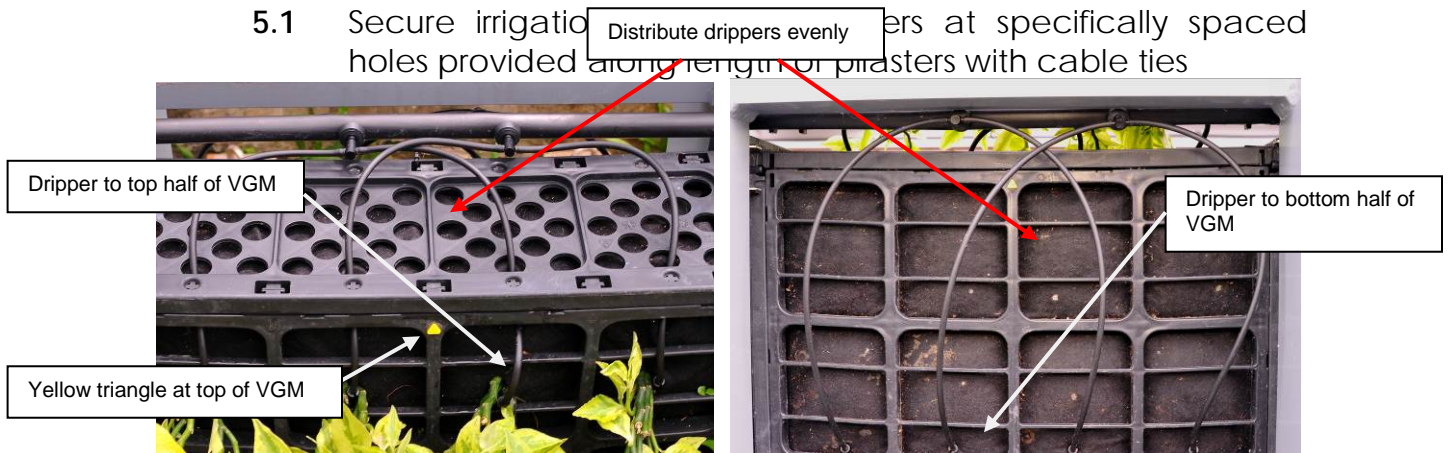
Framework

- 4.5 Secure pilaster with stainless steel Stud or Wedge anchors tighten with torque wrench for RC wall or secure with stainless steel nuts and bolts for a constructed framework accordingly

## 5. Irrigation and Fertigator System



### 5.1 Secure irrigation drippers at specifically spaced holes provided along length of drippers with cable ties



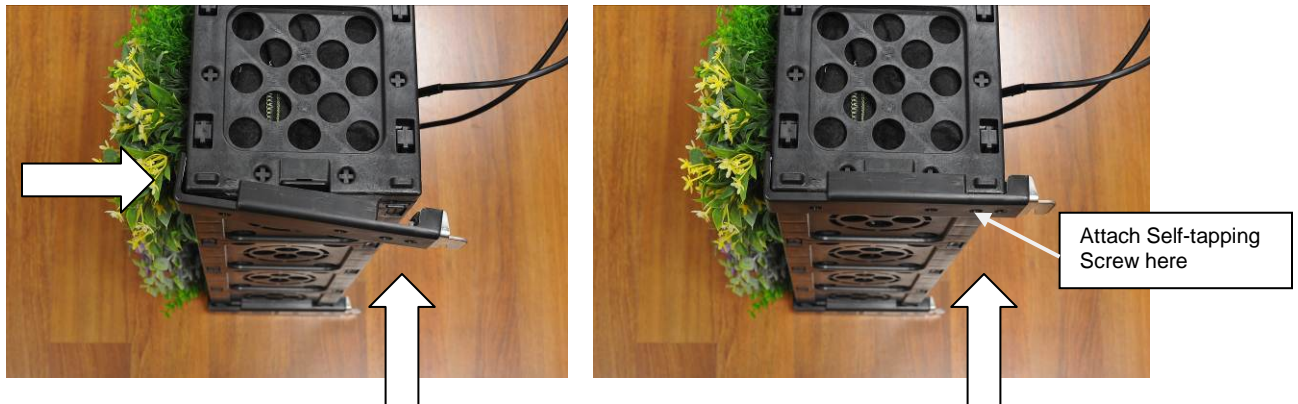
### 5.2 Insert arrow drippers into separate points either at rear or front of each VGM to evenly distribute water supply



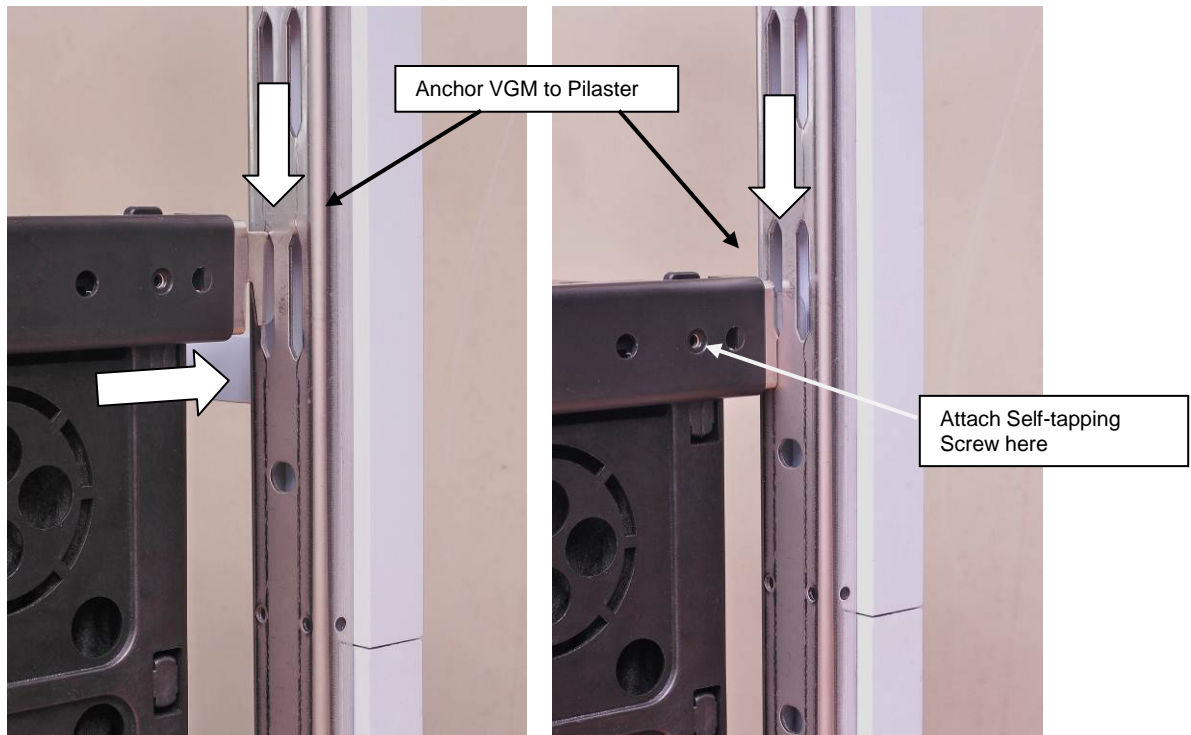
- 5.3** Install irrigation system, including controller, solenoid valve, pressure regulator, filters and valves linked to fertiliser supply, to project requirements or as advised, to deliver irrigation and fertiliser at programmable intervals for controlled durations
- 5.4** A rain sensor (optional) may be installed to override programmed water release when the green wall receives sufficient water from rain



## 6. Mounting



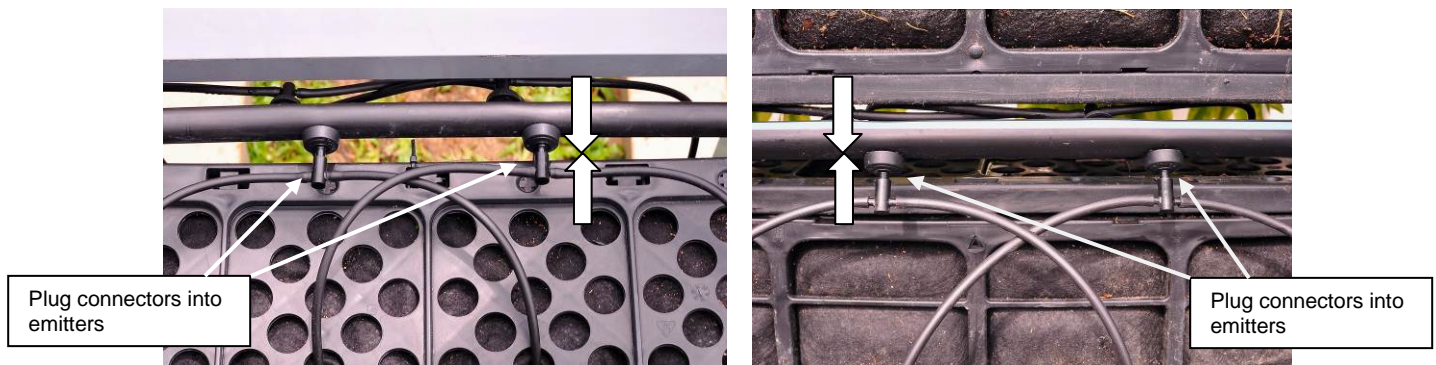
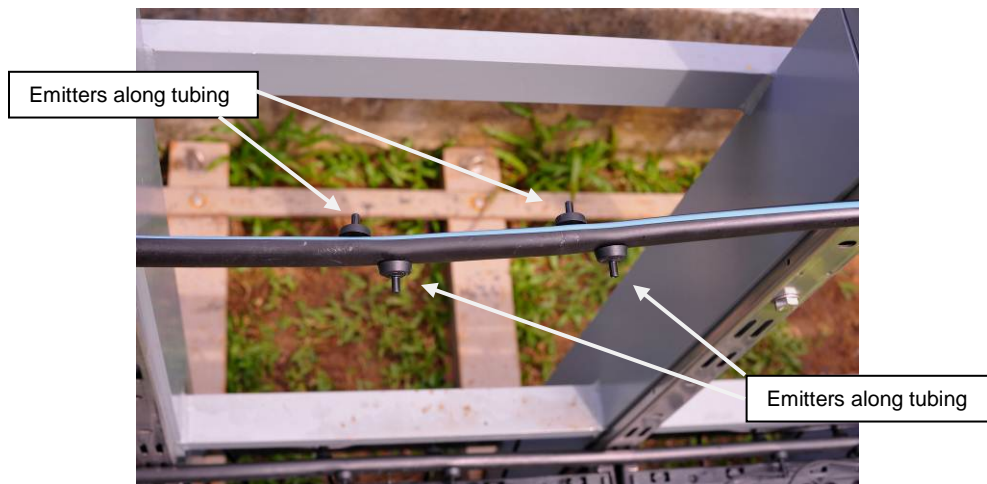
- 6.1 Attach stainless steel mounting brackets to the 4 corners of each VGM and cover each with its plastic cover
- 6.2 Secure mounting bracket to VGM with self-tapping screw to prevent bracket dislodgement before mounting



- 6.3 Anchor VGM to the pilasters beginning from the bottom row



- 6.4** Insert anti-lift arm between tops of mounted VGMs and push, from front to back, until arm clasp locks into pilaster slots



- 6.5** Plug connectors of manifold/s into corresponding emitters along horizontal irrigation tubing as each VGM row is installed

- 6.6** Install subsequent rows until all VGM rows are installed





## 7. Inspection & Maintenance

- 7.1 Follow a routine inspection and maintenance regime
- 7.2 Ensure smooth running of irrigation system
- 7.3 Weed away invasive unwanted growth
- 7.4 Prune as necessary