

## **MassBloc® Installation**

Welcome to the MassBloc® retaining wall system construction guide. The following steps are general guidelines that demonstrate a typical installation. Contractors should always consult the registered engineer's design details before commencing installation.

### **Step One**

Excavate the base to the required depth. This will be site dependant - generally 1200mm wide and 200mm deep.

### **Step Two**

Place 65mm minus hard fill (or equivalent) into the trench then compact to the engineer's requirements. Use a laser level for the best result. Place a layer of binding material (eg. 6mm minus blue metal or sand) up to 20mm thick over the entire foundation. Use a screed to achieve level (plus or minus 5mm) both across the width and along the length of the base.

### **Step Three**

Set a string line approximately 10mm from the front face of the MassBloc® wall. Blocks can be placed onto the base using an excavator with a certified chain and 5T swift lift. Should the work area be within reach of a hiab, blocks can be delivered and placed directly from the truck. Care must be taken so that the block is not damaged when unloading or placing.

### **Step Four**

Lower the MassBloc® base unit approximately 30mm from the prepared base and move the unit slowly into position and then lower fully. Each consecutive block is lowered 30mm from the base keeping 20mm away from the previously placed block. Use a spirit level to check that each block is level.

### **Step Five**

Once the base is level front to back and side to side, standard blocks can be placed on top.

### **Step Six**

The engineer's details will provide the required method for backfilling.

Options for backfilling include:

- No fines permeable concrete, similar to the mix used in the MassBloc® manufacture, can also be used as a backfill material where speed of placement is important and/or backfill compaction is difficult.
- Geogrids between each unit.

These steps are intended to be a general guide only. The registered engineer's design details take precedence if there is any conflict or ambiguity with this information.