

ACP
AUSSIE CONCRETE PRODUCTS
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CONCRETE SLEEPER RETAINING WALLS

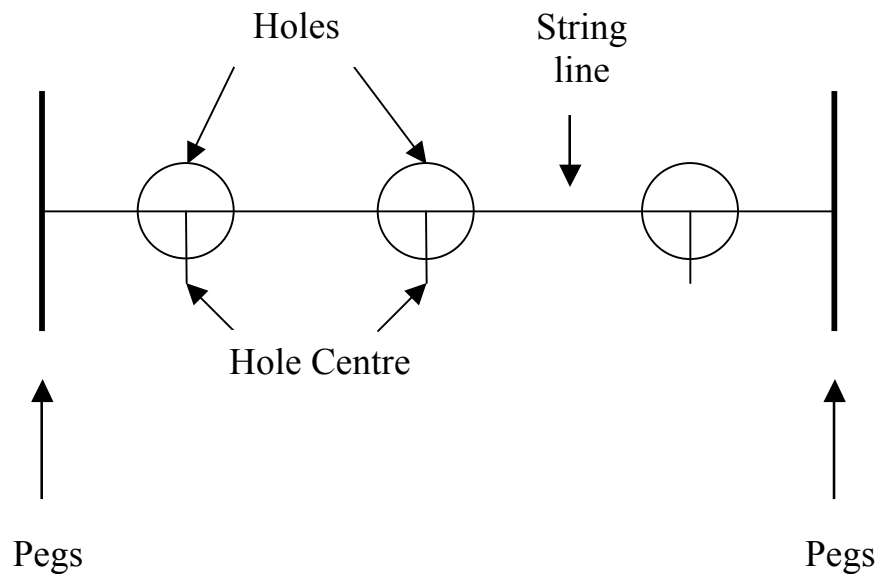
* NO TERMITES * NO CHEMICALS * NO PAINTING * NO MORTAR * NO WOOD ROT * FIRE PROOF

INSTALLATION GUIDE FOR RETAINING WALLS USING STEEL POSTS



STEP 1: PREPARING THE AREA

Clear and level your site where you plan to build the retaining wall. Please ensure you leave 200mm behind the retaining wall area for backfill.

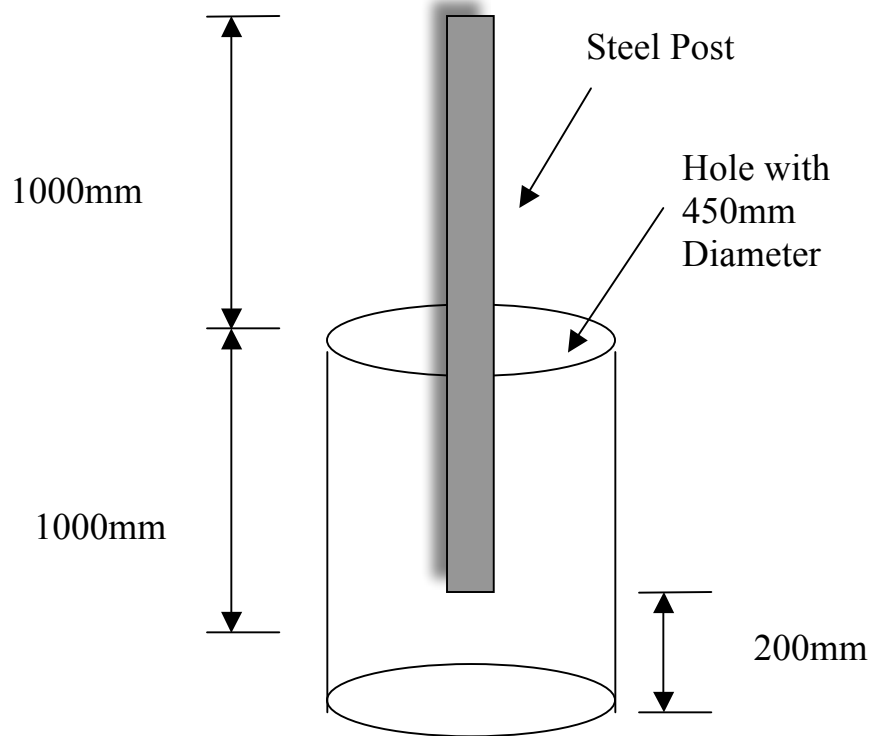


STEP 2: ALIGNMENT

Place a star piquet or peg at both ends of the proposed wall. Attach two string lines at each end of the wall, top and bottom, to keep your wall aligned.

STEP 3: MARKING OUT HOLES

Starting from one end of the wall, mark a cross on the ground at intervals as per the following - Holes should be dug with their center being approximately 10mm more than the length of the sleeper. For example if you are using 1530mm sleepers the hole centers should be approx 1540mm apart. This will vary on the length of sleeper used.



STEP 4: AUGER HOLES

Auger holes as per engineer specifications:

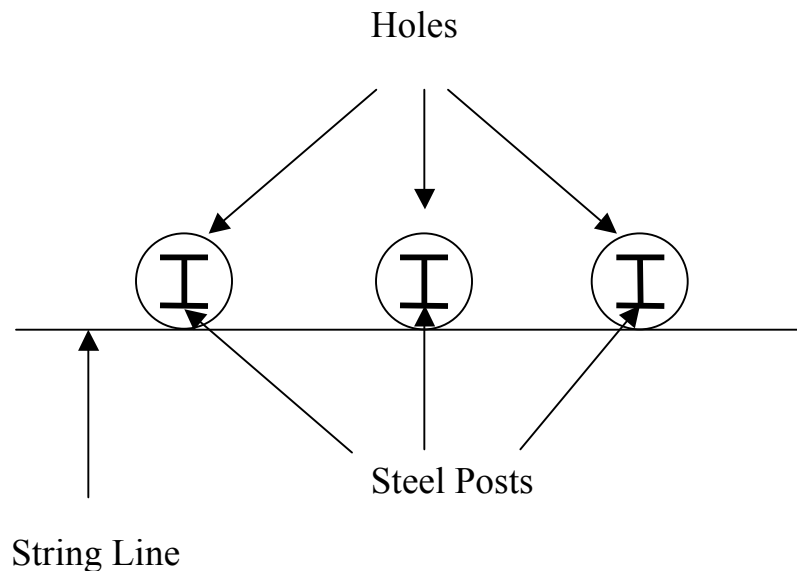
	RETAINING WALL WITH OPEN FENCING ONLY WITHIN 1M OF TOP OF WALL (I.E. NO WIND LOADS)			RETAINING WALL WITH UP TO 1.8M HIGH FENCE ON TOP OF WALL (N2 WIND RATING)		
WALL HEIGHT	POST SPACING	POST SIZE	FOOTING DEPTH	POST SPACING	POST SIZE	FOOTING DEPTH
1000	2000	100UC14.8	1200	2000	100UC14.8	1400
1200	2000	100UC14.8	1400	2000	100UC14.8	1600
1400	1500	100UC14.8	1600	1500	100UC14.8	1800
1600	1500	100UC14.8	1800	1500	100UC14.8	2000
1800	1500	100UC14.8	2000	1200	100UC14.8	2200
2000	1500	100UC14.8	2200	1200	100UC14.8	2400
2200	1200	100UC14.8	2400	1200	150UC23.4	2800
2400	1200	150UC23.4	2600	1200	150UC23.4	3000
2600	1200	150UC23.4	2800	1200	150UC23.4	3200
2800	1200	150UC23.4	3000	1200	150UC23.4	3600
3000	1200	150UC23.4	3200	1200	150UC23.4	3800

STEP 5: POURING CONCRETE

Pour concrete into holes, one at a time. Make the concrete stiff. If using readymix concrete, order 20/20, 60 slump. Set your post at required depth, then lower into ground until level with the top string lines. Ensure there is a minimum lean back of 30mm for every 1m in height.

STEP 6: CHECKING DISTANCES

Use a spirit level to make sure all your posts are aligned with the string line and are perpendicular on the sides. Ensure you recheck the distance between your posts – 10mm longer than your sleepers. E.g. if using 1530m sleeper, set posts at 1540m.



Build a concrete pad on both sides of the steel post web to ensure that as the sleepers are placed in, that the top sleeper will sit flush with the top of the post:

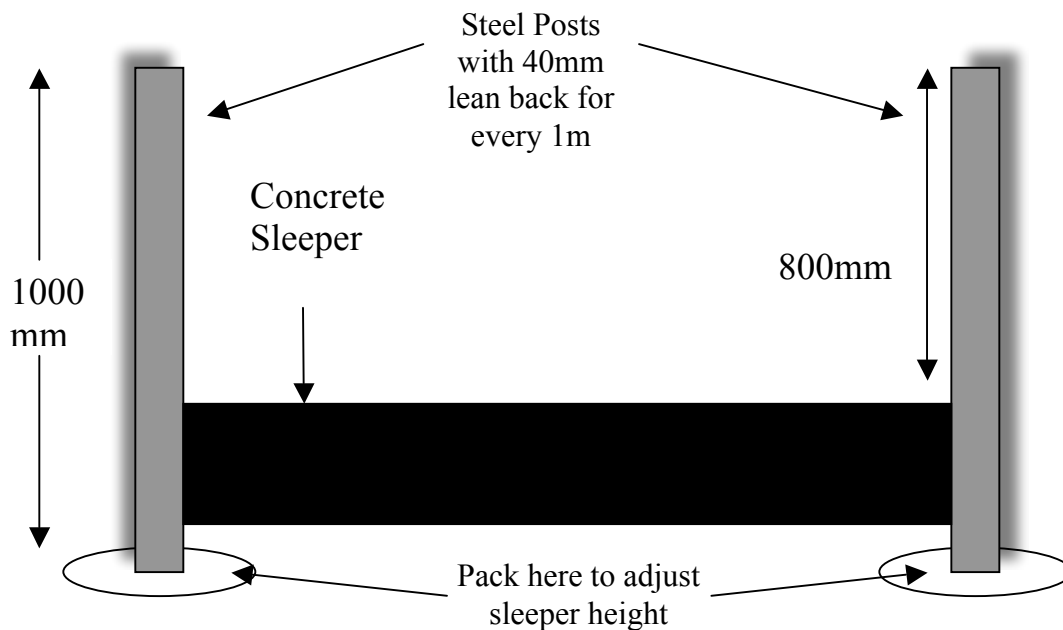
- Two High 400mm
- Three High 600mm
- Four High 800mm
- Five High 1000mm

STEP 7: AGPIPE AND BACKFILL

Allow the concrete to cure for two to three days before you place your sleepers in. Place the agpipe at the base, ensuring, the water can escape at the end. Begin to backfill with gravel, until 200mm to the top.

STEP 8: PUTTING IN STEEL POSTS AND CONCRETE SLEEPERS

Once the concrete has set around your posts, place your first sleeper between the posts. It is important to measure the remaining distance between the top of your first sleeper and the top of your steel posts, to make sure there is room to get all your sleepers in and to have them finish flush with the top of your posts. You can always cut the steel post if they are too long. It is also possible to pack extra gravel under the bottom sleeper to raise its height. Once you are happy with the placement of the first sleeper, you can begin adding the remaining sleepers.

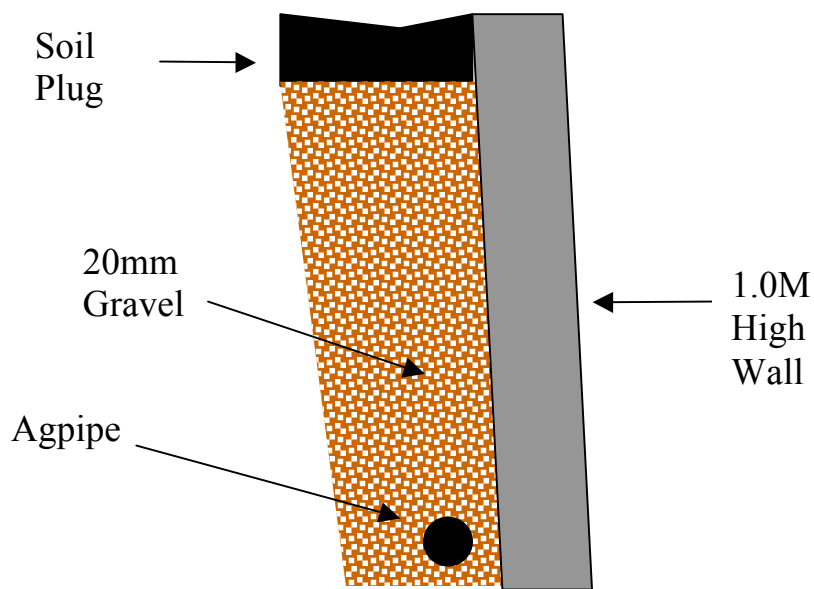


STEP 9: SOIL PLUG

A soil plug is then placed in, to fill the wall to the top.

STEP 10: BACKFILLING

Ensure when backfilling do not push dirt from behind into the back of the wall with any machinery. Always place dirt/fill from the top, when using a Bobcat/Dingo, or if you prefer, by hand.



STEP 11: ENJOY

Once back filled and landscaped sit back and enjoy an Aussie Concrete Retaining Wall that will never have to be replaced.

- **PLEASE NOTE** - Any walls over 1.0m high must be referred to an Engineer and be council approved.