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## Installation of Heritage Concrete Sleeper Retaining Walls Five, Four, Three and Two Sleepers High

1. Clear, and Level your Site. Ensure you have 300mm cleared, behind where you plan on constructing the retaining wall.
2. Place a star picquet (post), or similar at each end of proposed wall. To assist in perpendiculars later in the installation, use a spirit level to ensure posts are "Plumb". (To at least the face of the wall).
3. Attach Two String lines at each end, one for height of posts and one for face of posts.
4. Starting from one end mark a cross on the ground at 1.750m intervals.
5. Auger holes as per Schedule on each cross;

Height of Wall	Size of Hole	Depth of Hole	Steel Posts Requirement	Concrete Posts
2 High 380mm	350mm	580mm	Tapered Flange 100x45 x 760mm	870
3 High 570mm	350mm	770mm	Tapered Flange 100x45 x 1100mm	1060
4 High 760mm	400mm	860mm	Tapered Flange 100x45 x 1400mm	1360
5 High 950mm	450mm	1150mm	Tapered Flange 100x45 x 1600mm	1750
6 High 1140mm	450mm	1340mm	Tapered Flange 100x45 x 1900mm	No
7 High 1330mm	450mm	1530mm	Tapered Flange 100x45 x 2220mm	No
8 High 1520mm	450mm	1720mm	Tapered Flange 100x45 x 2600mm	No
9 High 1710mm	450mm	1910mm	Tapered Flange 100x45 x 3100mm	No
10 High 1900mm	450mm	2100mm	Tapered Flange 100x45 x 3850mm	No

6. Depending on how high a wall you are putting up, turn each post over so as the face is downwards and measure from the top of post down and draw a line across the back of the post with a thick marker. Measure from the finished end not the cut end.
  - Two High 380mm,
  - Three High 570mm,
  - Four High 760mm, and
  - Five High 950mm.This will give you the line of the bottom sleeper when posts are upright.
7. Place each post into holes and stand them up and double check distance between the centres of each post, distance should be 1750 mm between centres.
8. Then starting from one end, start concreting posts in. Try to concentrate on one post at a time and using a spirit level ensure that the posts are perpendicular (Plumb), on front, back, and side faces. Continue checking distance between posts, once happy with one post move on to the next.
9. Once you are happy all posts are at the height required, are in a straight line, and perpendicular (Plumb), go along and level a pad of concrete behind each post up to the mark on the back of each post as per para (6). This will create a ledge for your first sleeper to sit on and keep everything level.
10. Do not place sleepers behind posts for at least three days. Allow for concrete to cure.
11. 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.
12. Once back filled and landscaped sit back and have a cold beer and enjoy a Heritage Concrete Retaining Wall that will never have to be replaced.

Congratulations on buying and installing a Heritage Concrete Sleeper product. I hope we can be of assistance in the future.

Any Queries please don't hesitate to give us a ring.

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