

Archipello.®

Retaining Wall Installation Guide.



Overview:

Archipello. retaining walls create strong structural impact in gardens and outdoor spaces. With straight and curved options, they're the ideal durable solution for separating lawns, borders and paths.

This guide provides a clear, step-by-step method to ensure a professional-quality installation of your retaining wall at or below ground level.



Retaining Wall
Straight



Retaining Wall
Outside Curve



Retaining Wall
Outside Corner



Retaining Wall
Inside Corner

Equipment and materials required:

- Archipello. retaining wall sections
- Stainless steel bolts (supplied with retaining wall purchase for joining sections together)
- Wrench (for tightening bolts)
- Backfill/topsoil
- Spirit level
- Spade/shovel
- Safety gloves and glasses

For install at ground level on compacted footings:

- Twisted nails (not supplied, available to purchase separately)

For install at ground level on concrete footings:

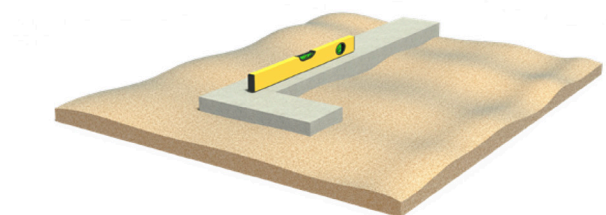
- Hammer drill
- 10mm Dynabolts or a chemical anchoring adhesive (not supplied with purchase, must be sourced independently)

Installing Below Ground Level

1. Prepare the Foundation

- Prepare a flat, load-bearing foundation such as poured concrete or compacted gravel footing.
- Ensure your ground is firm, well compacted and completely level.
- Use a spirit level to check the surface, as shown in the illustration.

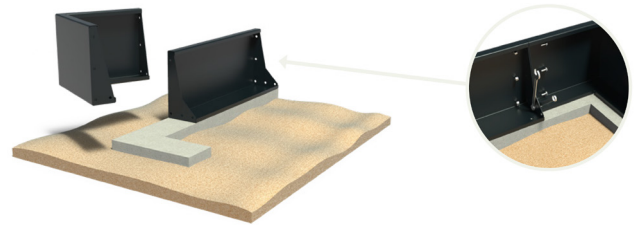
Note: An uneven surface can cause the retaining wall sections to misalign creating stress on the joins.



2. Bolt Wall Sections Together

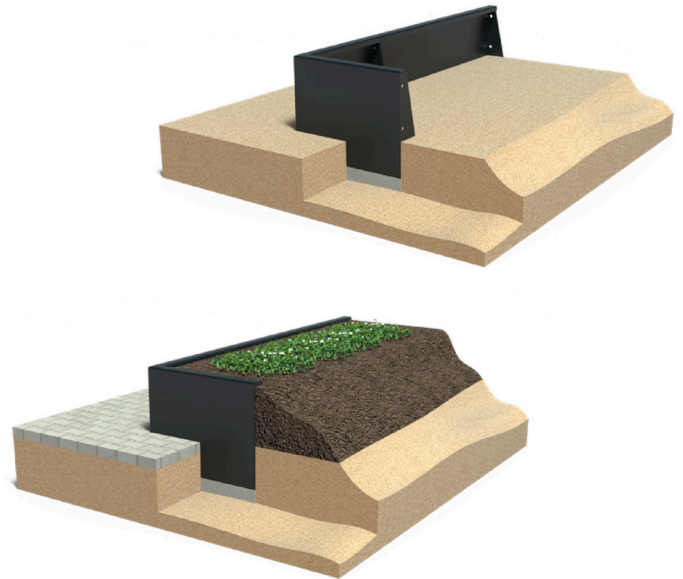
- Place each retaining wall section into position on the prepared base in its intended final location.
- Use the bolts supplied to connect the wall sections together.

Note: Start all bolts loosely first. Once all are in place, tighten them one by one to pull the structure together evenly.



3. Backfill the Retaining Wall

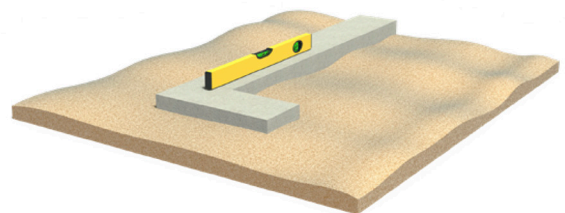
- Add supporting soil to both sides of the wall with soil up to at least 10cm above the base plate. This creates lateral support and prevents the wall from shifting during final filling.
- Backfill the interior of the retaining wall with your chosen soil, gravel, or planting mix.
- Compact gently as you go, and finish by adding any adjacent paving, edging, or landscaping.



Installing at Ground Level

1. Prepare the Surface

- Prepare a level, load-bearing surface such as poured concrete, metal, or compacted soil footing.
- The supporting surface must be level, well compacted and able to carry the weight of the wall without movement. This step is critical as any unevenness may be visible in the finished wall.



2. Bolt Wall Sections Together

- Place each retaining wall section into position on the prepared base in its intended final location.
- Use the bolts supplied to connect the wall sections together.

Note: Start all bolts loosely first. Once all are in place, tighten them one by one to pull the structure together evenly.



3. Fix the Retaining Wall to the Surface

There are two options depending on your footing type:

Option A - Concrete Footings

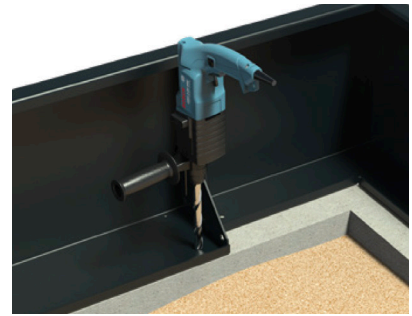
- Drill holes in the concrete foundation, lining them up with the pre-drilled holes in the retaining wall base plate.
- Use 10mm concrete Dynabolts or a chemical anchor, such as Ramset Anchoring Adhesive, or equivalent to secure the retaining wall firmly to the concrete.
- Tighten all bolts loosely first, then fully tighten one by one to ensure correct alignment between retaining wall sections.

Option B - Compacted Footings

For installations without concrete, where the wall sits on compacted soil or metal base, follow these steps:

- Ensure the base is thoroughly compacted and level, ideally using a plate compactor for stability.
- Align the pre-drilled holes in the retaining wall base plate with the ground below.
- Insert twisted nails (order additionally if required), driving each one fully into the ground using a sledgehammer. These will provide strong anchoring in dense, compacted ground to prevent movement.

Note: For this installation option, twisted nails are available as an optional add-on to be purchased separately.



4. Backfill and Finish

- Backfill the inside of the retaining wall with soil or planting mix as required.
- Compact gently to avoid creating voids.
- Finish by adding paving, edging, or landscaping around the exterior.



Archipello. Elements are available through Advance Landscape Systems.

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