



**BAINES
MASONRY**
Quality First

Tasman[®] and Norfolk[®]

Retaining Wall Evaluation and Installation Guide



Australian Owned, Designed and Manufactured

member of



BAINES MASONRY
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Norfolk® and Tasman® retaining walls are a proven segmental block system designed and manufactured in Australia.

Both systems have undergone extensive testing by the most up-to-date test facility in Australia and the results achieved are equal or better than most products designed in Australia or foreign countries.

The aesthetic design and colour selection available ensures you not only get a retaining wall system designed for Australian conditions but a system that has the beauty to blend in any landscape environment.

Professional engineers and designers prefer the qualities both systems have.

- Positive connection, no pins or plastic connectors that may or may not be used.
- Snug fitting connections, very little movement once blocks are placed on each other.
- A professionally designed software package that engineers can use to verify that their designs comply to Australian Standards.

Due to the success of Tasman® and Norfolk® segmental retaining wall systems, there have been several attempts to copy these systems but, as with most copies, they do not compare well because they cannot duplicate the unique, protected connection method of both Tasman® and Norfolk®

When you choose either system you can be confident you will receive the best Australian designed segmental retaining wall system that is superior in quality, design and aesthetics of any local or overseas product.

Tasman® and Norfolk® Retaining Wall Evaluation and Installation Guide



Tasman® and Norfolk® Retaining Wall Evaluation and Installation Guide

This installation guide demonstrates the basics on how to construct

- A. Segmental Concrete Gravity Retaining Walls up to 900mm high (Gravity)
- B. Segmental Concrete Reinforced Soil Retaining Walls over 1 metre high (Reinforced)
- C. Segmental Concrete Gravity Retaining Walls with No-fines Concrete over 1 metre high (No-fines Concrete)

This is a guide only, to help determine whether a gravity, soil reinforced or no-fines concrete retaining wall is the most appropriate for your situation, and the preparation necessary to achieve the end result.

This guide is not a design manual for soil reinforced or no-fines concrete retaining walls.

The information provided in no way replaces the services of professional consultants on a particular project. No liability can therefore be accepted by Baines Masonry.

STEP 1. Wall Height:

Determine the maximum wall height. (see figure 1)



Figure 1. Maximum Wall Height

STEP 2. Decide on

- A. Gravity retaining wall
- B. Soil reinforced retaining wall
- C. No-fines concrete retaining wall

A. Segmental Concrete Gravity Retaining Wall.

There are two types of gravity retaining walls: Type A1 **Norfolk®** which can be constructed up to 900mm high and Type A2 **Tasman®** which can be constructed up to 660mm high for straight walls and 860mm for serpentine walls.

A1 - Norfolk®

The maximum permissible height for both straight and serpentine Norfolk retaining walls is 900mm (4 blocks at 180mm plus one capping block at 180mm).

Norfolk retaining walls supporting up to 800 mm of soil, should comply with the following specification. Norfolk walls intended to support higher embankments must comply with AS 4678 "Earth retaining structures" and the advice of a competent civil engineer should be sought.

The following limitations comply with the requirements of Concrete Masonry Association of Australia Manual RW03 "Concrete Masonry Gravity Retaining Walls" Appendix E. This design may be used to determine the permissible height of retaining walls satisfying the following criteria. For retaining walls outside these criteria, the design shall be determined using engineering analysis similar to that shown in the worked example, Appendix A, by qualified and experienced civil or structural engineers with a comprehensive working knowledge of soil mechanics and structural analysis and design.

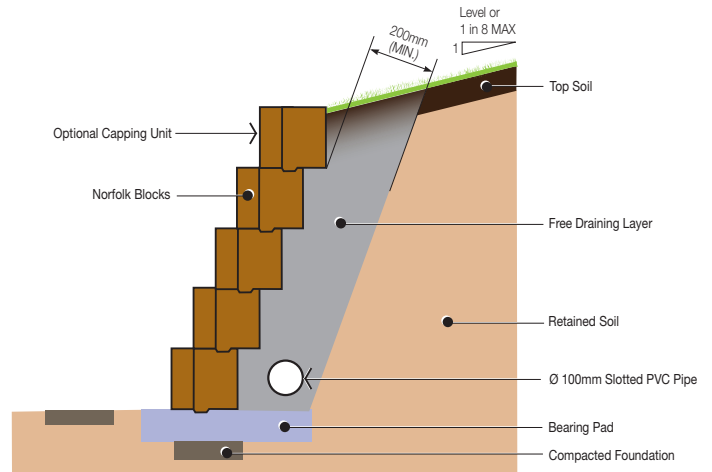





Figure 2. Norfolk Straight and Curved or Serpentine Gravity Walls up to 900mm




SRW® Products for Retaining Wall A1



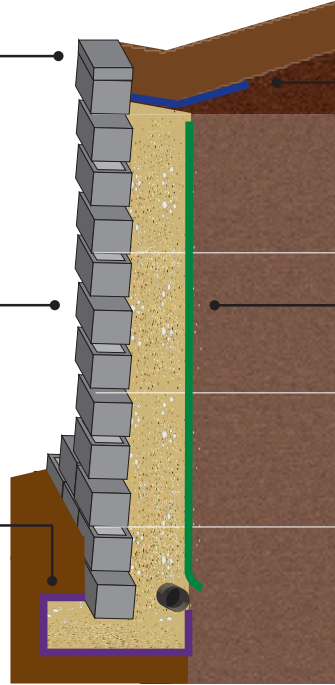
SRW Adhesive
SRW Adhesive has been time-tested and proven its performance in countless projects for over 25 years.




SRW RWX
Specialty Seal™ RWX Retaining Wall X-treme protects retaining wall blocks against damaging elements like water intrusion.




SRW SS5
Used to separate the leveling pad materials from the sub-base which increases strength.





SRW NW4.5
Used as separation at the top of the wall to prevent soil migration into the drainage aggregate.



SRW SB3
Used as filtration behind the retaining wall, keeping debris out and water flowing through.

Norfolk® Blocks



Norfolk Block



Norfolk Cap

Details of the Norfolk® System

Block height	180 mm (plus 10mm tab height)
Block length	390 mm
Block depth (into the embankment)	190 mm
Block weight	18.5 kg
Capping block weight	21.5 kg
Setback distance per block	55 mm
Wall slope	17 degrees (55 in 180)
Infill behind and within the facing blocks	Compacted 10 to 20 mm crushed rock aggregate
Bearing pad	Compacted 10 to 20 mm crushed rock aggregate
Drainage pipe	100 mm diameter PVC agricultural pipe with sock

The limits of application are as follows:

- All retaining walls shall comply with AS 4678 Structure Classification A (Available from SAI Global Publishing www.sai-global.com)
- Permissible height for both straight and serpentine walls is 900 mm (4 blocks at 180 mm plus one capping block at 180 mm)
- All retaining walls are designed for level backfill. If the backfill has a slope greater than 1 in 8, engineering advice should be sought. This design does not apply to terraced retaining walls
- This design is not suitable for imposed loads. If imposed loads are expected, the retaining wall should be designed by engineering analysis similar to that in the worked example, in CMAA Manual RW03 Appendix A (Available from The Concrete Masonry Association of Australia. www.cmaa.com.au)
- This design is not suitable for situations of excessive water run-off
- This design applies to retaining walls with a compacted crushed rock levelling pad, 600 mm wide x 150 mm deep. (The addition of portland cement is recommended to avoid erosion over the long term)

Notes

Structure Classification A retaining structures under 800 mm high are outside the scope of AS 4678

The criteria for Norfolk® gravity retaining walls under 800mm is based on RW03 of the Concrete Masonry Association of Australia.

For all retaining walls it is the owner's responsibility to determine if council approval is required, irrespective of height or site conditions.



A1 - Norfolk®

Corners

Due to the setback of the Norfolk, 90° corners are difficult to construct, but not impossible. You may have to remove the lugs and fix using a construction adhesive, allowing 55mm for the set back of the block. Additional cutting of the blocks may be required. Curved corners are easy to construct and the best guide is to lay out a garden hose and follow the profile. Be conscious that the length of courses will vary for a concave or convex wall. With fewer blocks per lineal metre of convex wall, and more blocks per lineal metre when the wall is concave.

Curves

Curves and serpentine walls are easy to construct and the best guide is to lay out a garden hose and follow the profile. Be conscious that the length of courses will vary for a concave or convex wall.

With fewer blocks per lineal metre of a convex, and more blocks per lineal metre when the wall is concave. The minimum diameter of the top course of the Norfolk wall is 1900mm (internal dimension). Adjust lower courses allowing for 55mm step back.

Always keep the front of the blocks tightly together.



First Course



Additional Courses



Capping





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A2 - Tasman®

The maximum permissible height for straight Tasman retaining walls is 660mm (three courses and one cap) and serpentine Tasman retaining walls is 860mm (four courses and on cap).

Tasman walls intended to support higher embankments must comply with AS 4678 "Earth retaining structures" and the advice of a competent civil engineer should be sought.

The following limitations comply with the requirements of Concrete Masonry Association of Australia Manual RW03 "Concrete Masonry Gravity Retaining Walls" Appendix E. This design may be used to determine the permissible height of retaining walls satisfying the following criteria. For retaining walls outside these criteria, the design shall be determined using engineering analysis similar to that shown in the worked example, Appendix A, by qualified and experienced civil or structural engineers with a comprehensive working knowledge of soil mechanics and structural analysis and design.

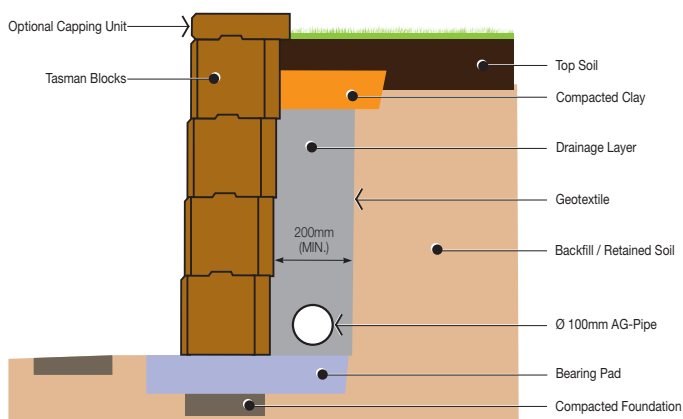


Figure 3 Tasman Curved and Serpentine Gravity Retaining Walls up to 860mm High

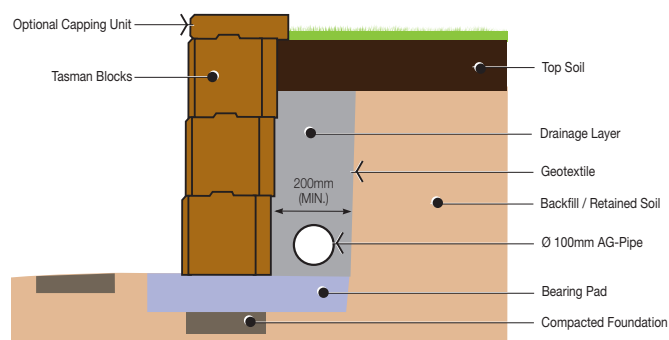





Figure 4 Tasman Straight Gravity Retaining Walls up to 660mm High




SRW® Products for Retaining Wall A2



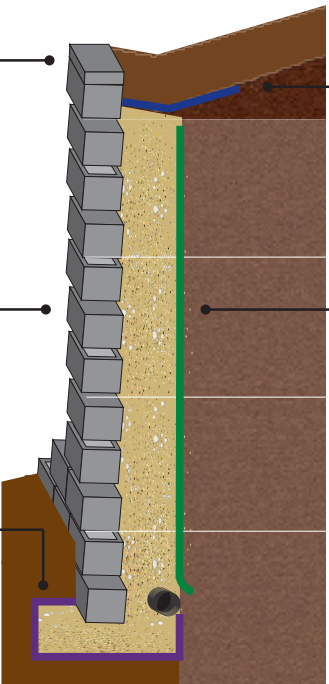
SRW Adhesive
SRW Adhesive has been time-tested and proven its performance in countless projects for over 25 years.




SRW RWX
Specialty Seal™ RWX Retaining Wall X-treme protects retaining wall blocks against damaging elements like water intrusion.




SRW SS5
Used to separate the leveling pad materials from the sub-base which increases strength.



SRW NW4.5
Used as separation at the top of the wall to prevent soil migration into the drainage aggregate.



SRW SB3
Used as filtration behind the retaining wall, keeping debris out and water flowing through.



Tasman® Blocks



Tasman Block



Tasman Cap

Details of the Tasman® System

Block height	200 mm (plus 10 mm tab height)
Block length	390 mm
Block depth (into the embankment)	225 mm
Block weight	23.5 kg
Capping block weight	12 kg
Setback distance per block	10 mm
Wall slope	3 degrees (10 in 225)
Infill behind and within the facing blocks	Compacted 10 to 20 mm crushed rock aggregate
Bearing pad	Compacted 10 to 20 mm crushed rock aggregate
Drainage pipe	100 mm diameter PVC agricultural pipe with sock

The limits of application are as follows:

- All retaining walls shall comply with AS 4678 Structure Classification A (Available from SAI Global Publishing www.sai-global.com/)
- Permissible height for straight walls is 660mm (three courses and one cap) and serpentine walls is 860mm (four courses and one cap)
- All retaining walls are designed for level backfill. If the backfill has a slope greater than 1 in 8, engineering advice should be sought. This design does not apply to terraced retaining walls.
- This design is not suitable for imposed loads. If imposed loads are expected, the retaining wall should be designed by engineering analysis similar to that in the worked example, in CMAA Manual RW03 Appendix A (Available from The Concrete Masonry Association of Australia. www.cmaa.com.au)
- This design is not suitable for situations with excessive water run-off.
- This design applies to retaining walls with a compacted crushed rock levelling pad, 600 mm wide x 150 mm deep. (The addition of portland cement is recommended to avoid erosion over the long term)

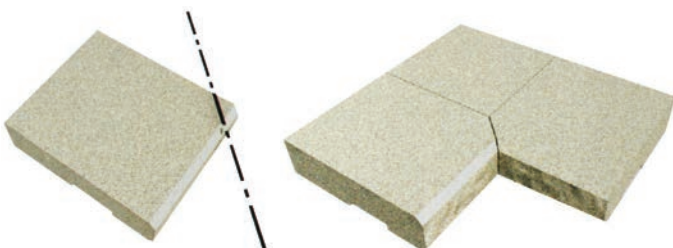
Notes

Structure Classification A retaining structures under 800 mm high are outside the scope of AS 4678

The criteria for Tasman® gravity retaining walls is based on RW03 of the Concrete Masonry Association of Australia.

For all retaining walls it is the owner's responsibility to determine if council approval is required, irrespective of height or site conditions.

Internal Corner Caps - Cutting Detail



Cut Line

Finished Corner

External Corner Caps - Cutting Detail



Cut Line

Finished Corner

A2 - Tasman[®]

Corners

Tasman corners are built by fixing the purpose made corner blocks alternately to each course using adhesive. Allowances should be made for a 10mm step back per course.

Lugs must be removed from the Tasman Blocks to ensure that the corner block fits evenly.

A maximum height of one metre is recommended when using corner blocks.

Curved corners is the preferred method of corner construction.

Curves

Curves and serpentine walls are easy to construct and the best guide is to lay out a garden hose and follow the profile. Be conscious that the length of courses will vary for a concave or convex wall. With fewer blocks per lineal metre of a convex, and more blocks per lineal metre when the wall is concave. For convex curved walls knock the back fin off the block with a hammer. For concave walls simply position blocks. The minimum radius for the top course of Tasman half blocks is 650mm and Tasman blocks is 1300mm. Adjust lower courses allowing for 10mm step back.

Always keep the front of the blocks tightly together.

Steps

Steps must be built according to the local building code, so always check with your local building authority for the minimum requirements before commencing.



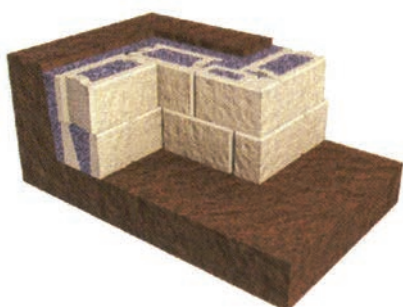
First Course



First Course



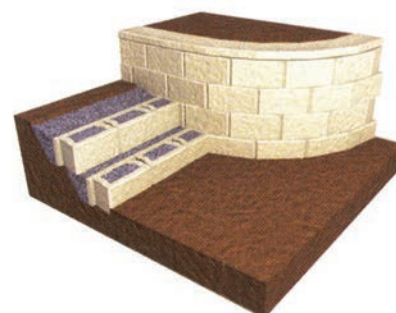
Prepare Surface



Additional Courses



Additional Courses



Install blocks



Capping



Capping



Capping

Wall Step Downs

Stepping down a Tasman Wall can be easily achieved by using half corners and half caps.

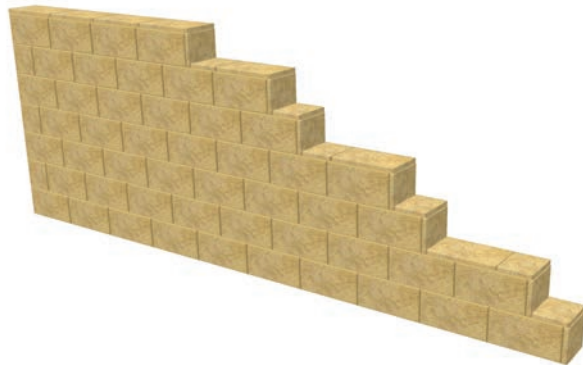
All corners, half corners and caps must be fixed by SRW Adhesive.



Stepping down using a half corner



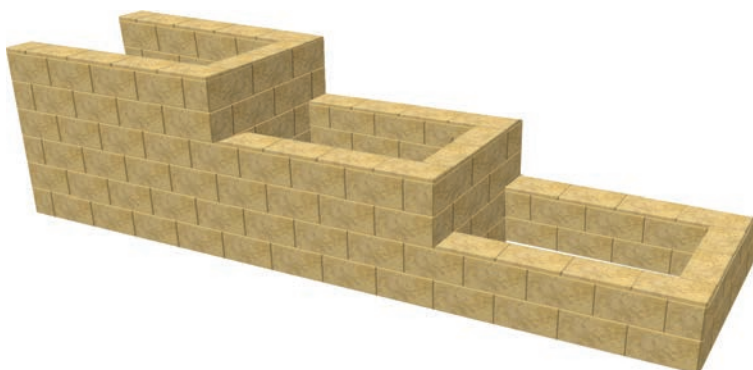
Stepping down using a half caps



Stepping down and returns



Stepping down planter box

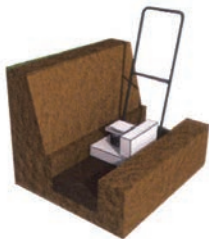


Installing Segmental Concrete Gravity Retaining Walls A1 and A2

Step 1 Check Compliance

Check with your local council to ensure all local Building Codes are complied with.

Step 2 Foundation



The foundation material shall be compacted by several passes of a mechanical plate vibrator. Where there are significant variations of foundation material or compaction, soft spots, or where there is ponding of ground water, the material shall be removed, replaced and compacted in layers not exceeding

150 mm. Trenches shall be dewatered and cleaned prior to construction, such that no softened or loosened material remains.

Baines Masonry supplies and recommends laying **SRW SS5 stabilisation separator** to increase the strength of foundation

Step 3 Bearing Pad



The facing shall be built on a bearing pad, not less than 150 mm thick, consisting of one of the following options:

- Compacted crushed rock, well-graded and of low plasticity (without clay content), compacted by a plate vibrator;
- Cement-stabilized crushed rock, with an additional 5% by mass of GP Portland cement thoroughly mixed, moistened and compacted by a plate vibrator; or
- Lean-mix concrete with a compressive strength of not less than 15 MPa.

Step 4 First Course



Spread 25mm of metal dust with an additional 5% by mass of GP Portland cement over the compacted base.

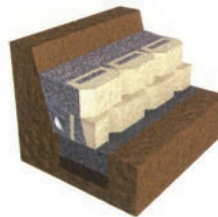
The first course is now bedded into the metal dust. The use of a level and string line is recommended to ensure the first course is laid correctly. Ensure each block is also well filled with free-draining material. (eg crushed rock aggregate / blue metal).

Step 5 Drainage and Backfill



Place 100 mm diameter PVC agricultural pipe with sock behind the wall, with a 1 in 100 fall. Backfill behind the courses of blocks to a width of approx. 200mm - 300mm using 10 - 20 mm free draining material (eg crushed rock aggregate / blue metal). Ensure each block is also well filled with free-draining material.

Step 6 Laying Additional Courses



Lay the next course and subsequent courses to a string line following the same procedure, as outlined in step 4, cleaning the top of the blocks, filling the block cores and backfilling behind the blocks to a maximum of one block high, at a time. (As per step 5)

Step 7 Capping Units



When a Norfolk capping block is laid as the final course no adhesive fixing is necessary.

If using a Tasman cap on either Norfolk or Tasman walls the capping block shall be fixed by **SRW Adhesive**

Note: The criteria for Norfolk and Tasman Gravity Retaining walls are based on RW03 of the Concrete Masonry Association of Australia

Installing Tasman® Segmental Concrete Reinforced Soil Retaining Wall B

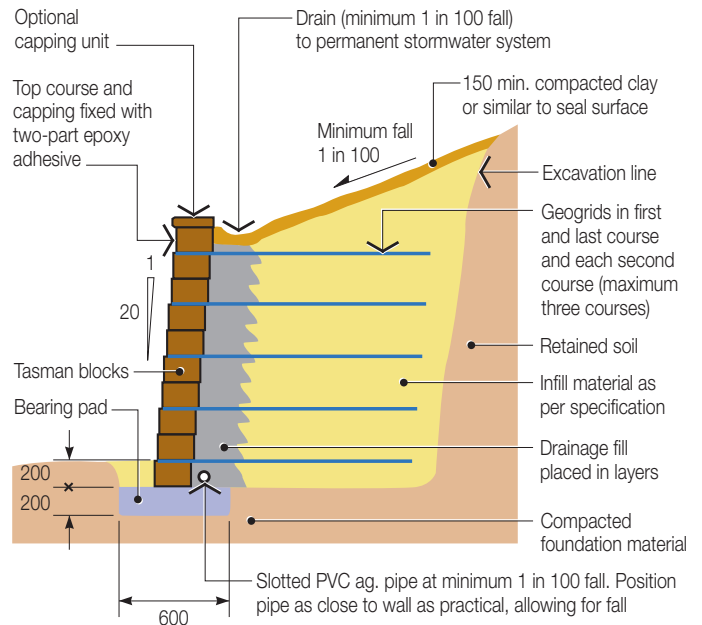
Step 1 Check Compliance


Check with your local council to ensure all local Building Codes are complied with.

Step 2 For walls up to 3m high


Engage a qualified civil engineer with a comprehensive working knowledge of soil mechanics and structural analysis and design. The design should comply with AS 4678 "Earth retaining structures" (A detailed engineering software design and specification disc is available from Baines Masonry).

Walls over 3m high must be designed by a qualified and experienced civil or structural engineer with a comprehensive working knowledge of soil mechanics and structural analysis and design, using the design software available from Baines Masonry. It may be a council requirement to have the retaining wall certified and supervised by a civil or structural engineer.







SRW Adhesive
SRW Adhesive has been time-tested and proven its performance in countless projects for over 25 years.




SRW RWX
Specialty Seal™ RWX Retaining Wall X-treme protects retaining wall blocks against damaging elements like water intrusion.




SRW SS5
Used to separate the leveling pad materials from the sub-base which increases strength.



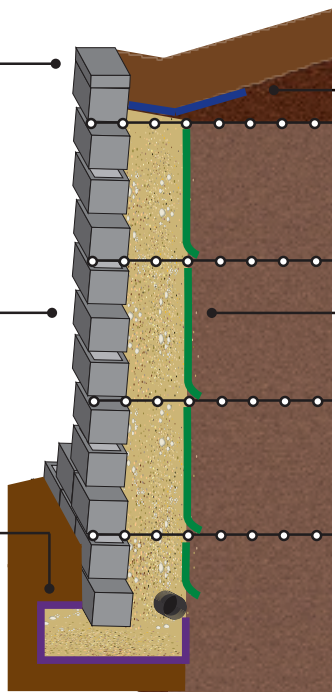
SRW NW4.5
Used as separation at the top of the wall to prevent soil migration into the drainage aggregate.



SRW SB3
Used as filtration behind the retaining wall, keeping debris out and water flowing through.



SRW Geogrid
SRW geogrid stabilises retaining walls, preventing premature wall failure and increasing life span.



Installing Tasman® Concrete Reinforced Soil Retaining Wall B

Step 3 Foundation



The foundation material shall be compacted by several passes of a mechanical plate vibrator. Where there are significant variations of foundation material or compaction, soft spots, or where there is ponding of ground water, the material shall be removed, replaced and compacted in layers as per engineer's advice. Trenches shall

be dewatered and cleaned prior to construction, such that no softened or loosened material remains.

Baines Masonry supplies and recommends laying SRW SSS stabilisation separator to increase the strength of foundation

Step 4 Bearing Pad



The facing shall be built on a bearing pad, as per engineers advice, consisting of one of the following options:

- Compacted crushed rock, well-graded and of low plasticity (without clay content), compacted by a plate vibrator;

- Cement-stabilized crushed rock, with an additional 5% by mass of GP Portland cement thoroughly mixed, moistened and compacted by a plate vibrator; or

- Lean-mix concrete with a compressive strength of not less than 15 MPa.

Step 5 Drainage, Backfill and the First Course



Ensure the first course is embedded below the finished ground level. Place 100 mm diameter PVC agricultural pipe with sock behind the wall, with a 1 in 100 fall.

The agricultural pipe should be connected to a PVC stormwater pipe and brought through the front of the wall at intervals not exceeding 30m.

It should be connected to a PVC stormwater system at the lower end of each run, where practical, and must drain positively away from the base of the retaining wall.

Backfill behind the courses of blocks to a width of not less than 300mm using 10-20 mm free draining material (eg crushed rock aggregate / blue metal). Ensure each block is also well filled with free-draining material. Back fill behind the drainage layer with the specified backfill in a maximum of 200mm layers.

Compaction rate of 95% must be achieved (use only hand operated plate compactors close to the wall). Soft or wet clay must not be used to backfill. The use of a level and string line is recommended to ensure the first course is laid correctly.

Step 6 Laying Geogrid

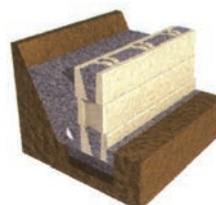


Clean any debris from the top of the block wall to ensure the next block and or the geogrid layer sits perfectly. Roll the geogrid perpendicular to the wall, pull tight, stake in place and cut to the required length. Ensure that the geogrid sits within 15mm of the face of the block, so that the purpose made connecting lugs can interlock. Butt

join the geogrid along the length of the wall. Place the next course on top of the geogrid.

Baines Masonry recommends and supplies SRW® Geogrid

Step 7 Laying Additional Courses



Lay the next course and subsequent courses to a string line following the procedures outlined previously i.e. Clean any debris from the top of the block wall to ensure the next block and or the geogrid layer sits perfectly. Backfill behind the course of blocks to a width of not less than 300mm using

10-20 mm free draining material (eg crushed rock aggregate / blue metal). Ensure each block is also well filled with free-draining material.

Back fill behind the drainage layer with the specified backfill in a maximum of 200mm layers.

Compaction rate of 95% must be achieved (use only hand operated plate compactors close to the wall). Soft or wet clay must not be used to backfill.

Step 8 Capping



The capping block shall be fixed by **SRW Adhesive**



SRW® Adhesive

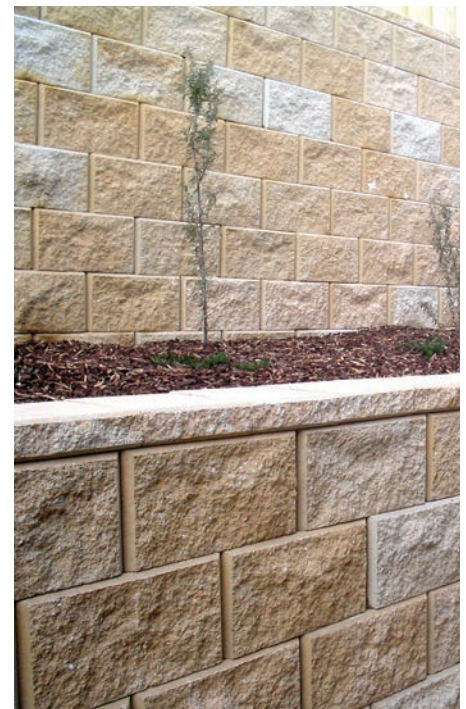
SRW Adhesive is a rapid-set polyurethane adhesive formulated to permanently bond concrete masonry block structures.

Fastest Set-Up Time on the Market with **SRW Adhesive** masonry adhesive instead of mortar and you'll save **TIME & MONEY**.

BENEFITS

- Fastest set-up time on the market!
- High temperature adhesive suitable for firepits
- For use on dry or damp surfaces
- Premium, long lasting strength
- Interior/external use
- Specially formulated for use on construction and landscape projects





Step 9 Surface Drainage



The whole of the disturbed fill surface should be sealed by at least 150mm of compacted clay and properly drained. Alternative means, such as bentonite layers or PVC membranes may be employed, provided they do not introduce potential slip planes into the surface material.

Installing Tasman® No-fines Concrete Retaining Walls C

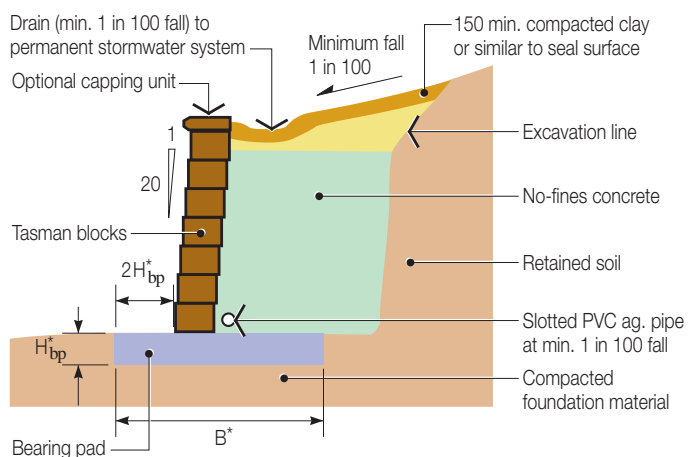
Step 1 Check Compliance

Check with your local council to ensure all local Building Codes are complied with.

Step 2 For walls up to 3m high

Engage a qualified civil engineer with a comprehensive working knowledge of soil mechanics and structural analysis and design. The design should comply with AS 4678 "Earth retaining structures" (A detailed engineering software design and specification disk is available from Baines Masonry)


Walls over 3m high must be designed by a qualified and experienced civil or structural engineer with a comprehensive working knowledge of soil mechanics and structural analysis and design, using the design software available from Baines Masonry. It may be a council requirement to have the retaining wall certified and supervised by a civil or structural engineer.




Specification of No-fines Concrete infill

No-fines concrete shall be free-draining, allowing water to pass readily through it to the drainage system.


No-fines concrete shall have a bulk density not less than 1800kg/m³ and an aggregate to GP cement ratio not greater than 6:1 (by volume).



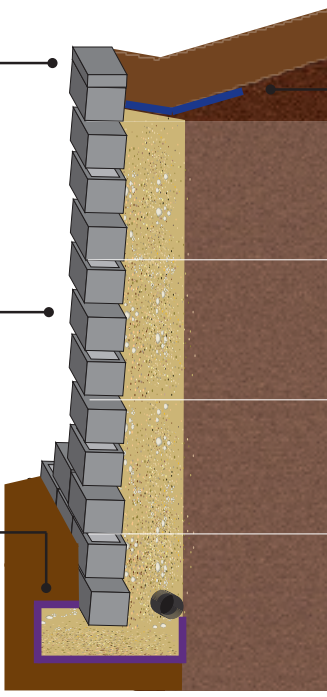
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SRW RWX
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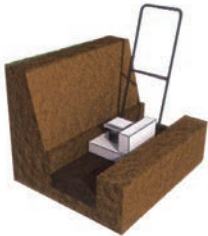
SRW SS5
Used to separate the leveling pad materials from the sub-base which increases strength.



SRW NW4.5
Used as separation at the top of the wall to prevent soil migration into the drainage aggregate.



Step 3 Foundation

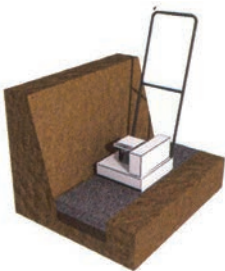


The foundation material shall be compacted by several passes of a mechanical plate vibrator. Where there are significant variations of foundation material or compaction soft spots, or where there is ponding of ground water, the material shall be removed, replaced and compacted in layers as per engineer's advice. Trenches shall

be dewatered and cleaned prior to construction, such that no softened or loosened material remains.

Baines Masonry supplies and recommends laying SRW SS5 stabilisation separator to increase the strength of foundation.

Step 4 Bearing Pad



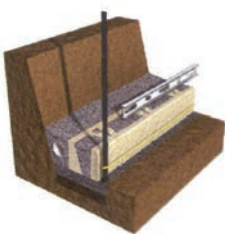
The facing shall be built on a bearing pad, as per engineers advice, consisting of one of the following options:

- Compacted crushed rock, well-graded and of low plasticity (without clay content), compacted by a plate vibrator;

- Cement-stabilized crushed rock, with an additional 5% by mass of GP Portland cement thoroughly mixed, moistened and compacted by a plate vibrator; or

- Lean-mix concrete with a compressive strength of not less than 15 MPa.

Step 5 Drainage, Backfill and the First Course



Place 100 mm diameter PVC agricultural pipe with sock behind the wall, with a 1 in 100 fall.

The agricultural pipe should be connected to a PVC stormwater pipe and brought through the front of the wall at intervals not exceeding 30m. It should be connected to a PVC

stormwater system at the lower end of each run, where practical, and must drain positively away from the base of the retaining wall.

Backfill behind the course of blocks to a width of not less than 300mm using no-fines concrete. Ensure each block is also well filled with no-fines concrete. Back fill behind the drainage layer with the specified backfill in a maximum of 200mm layers.

Compaction rate of 95% must be achieved (use only hand operated plate compactors close to the wall). Soft or wet clay must not be used to backfill. The use of a level and string line is recommended to ensure the first course is laid correctly.

Step 6 Laying Additional Courses

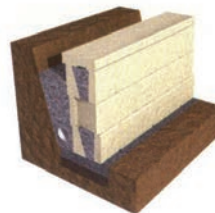


Lay the next course and subsequent courses to a string line following the procedures outlined previously i.e. Clean any debris from the top of the block wall to ensure the next block sits perfectly. Backfill behind the course of blocks to a width of not less than 300mm using no-fines concrete. Ensure each block is also well filled with no-fines concrete.

Back fill behind the drainage layer with the specified backfill in a maximum of 200mm layers.

Compaction rate of 95% must be achieved (use only hand operated plate compactors close to the wall). Soft or wet clay must not be used to backfill.

Step 7 Capping



The capping block shall be fixed by **SRW Adhesive**

Step 8 Surface Drainage



The whole of the disturbed fill surface should be sealed by at least 150mm of compacted clay and properly drained. Alternative means such as bentonite layers or PVC membranes may be employed, provided they do not introduce potential slip planes into the surface material.

Glossary

Gravity Retaining Walls

Gravity retaining walls depend on the weight of their mass to resist pressures from behind and will often have a slight batter set back, to improve stability by leaning back into the retained soil.

Soil Reinforced Retaining Walls

Soil reinforced retaining walls incorporate geogrids into the soil structure to create a segmental concrete reinforced soil structure. Such systems can be constructed several metres high and accommodate significant loads.

No-Fines Concrete Retaining Wall

No-fines concrete retaining walls use no-fines concrete as a mass behind the concrete facing units to reinforce the soil structure to create a segmental concrete reinforced soil structure. Such systems can be constructed several metres high and accommodate significant loads.

Serpentine Wall

The serpentine wall derives its name from its curving shape, which is in the form of a snake.

Geogrids

Layers of metal or plastic material, which when constructed in horizontal planes in a soil mass, strengthen the soil. The most common geogrids are open “mesh” consisting of polyester, high-density polyethylene, polypropylene or steel.

Infill Material

The soil material, placed behind the retaining wall facing and strengthened by the geogrids.

Foundation

The natural soil or rock material under a retaining wall.

Bearing Pad

The pad the Tasman® or Norfolk® blocks are built on.

Drainage Fill

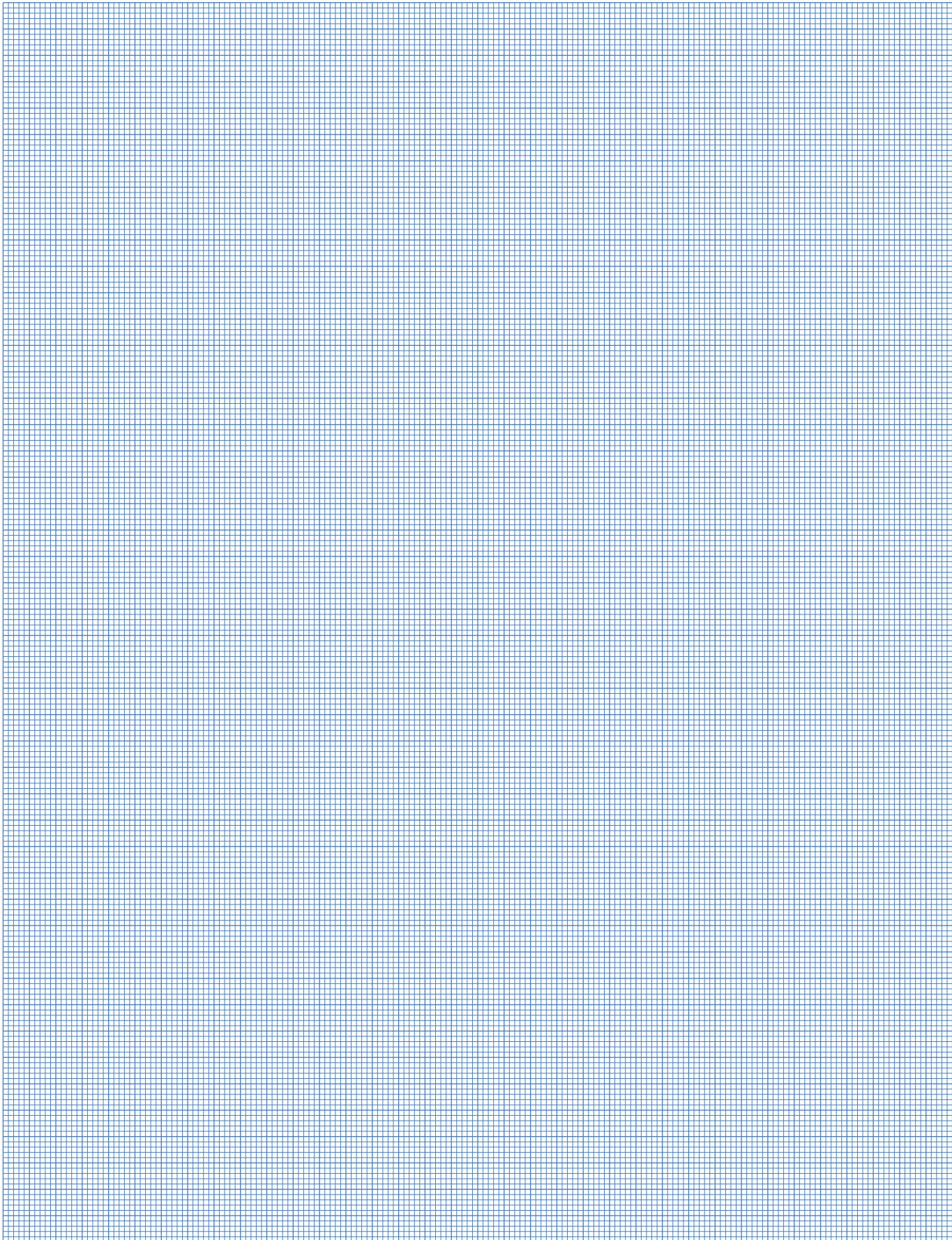
The crushed rock, gravel or similar material placed behind a retaining wall to convey groundwater away from the wall foundations. It is commonly used in conjunction with other drainage media, such as agricultural pipes.

Client	
Site	
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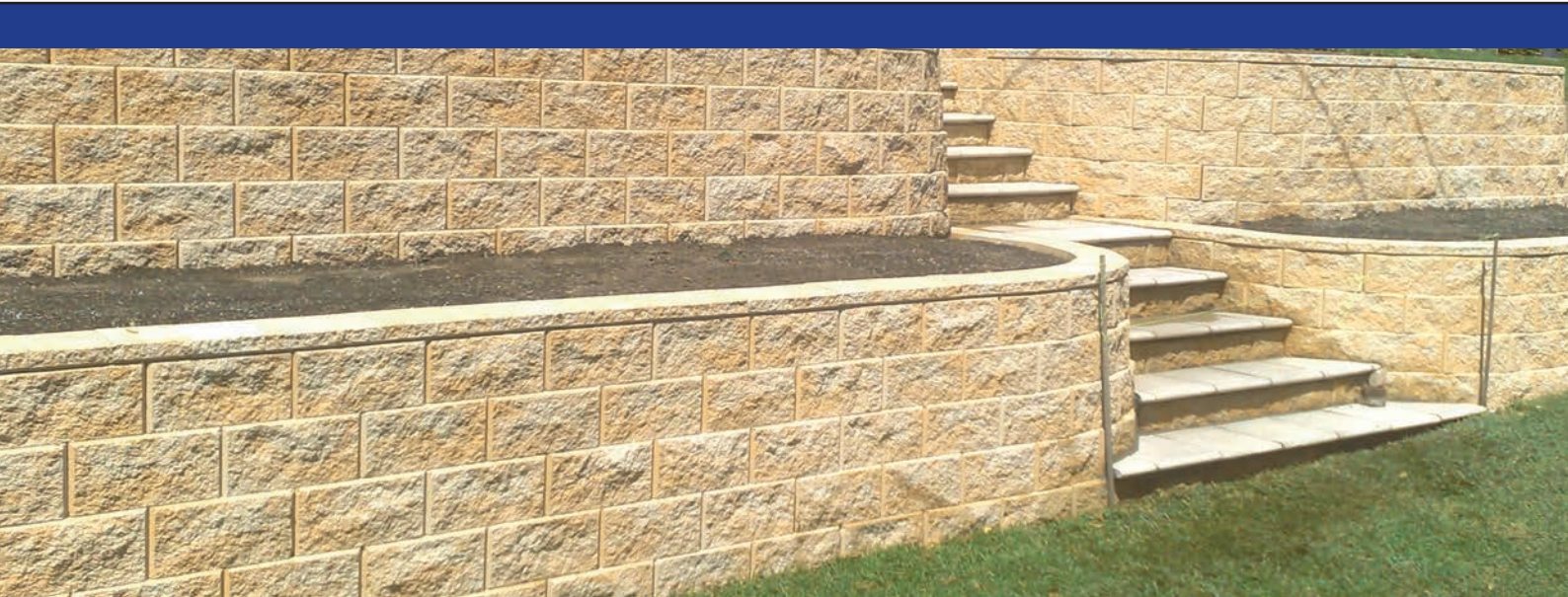
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this drawing is indicative only and is not to scale unless otherwise stated

Supplier:



This manual is intended to be a guide to determine the most appropriate type of segmental concrete retaining wall and the procedure for installation.

This is not a design manual for soil reinforced or no-fines concrete retaining walls.

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