

ROCK block

Rock Block retaining wall, designed in Tasmania, leading the world in “Big Block” retaining walls.

Precast retaining walls have come a long way over the years and Hudson Civil is the leader not only locally but perhaps in Australia wide when it comes to both innovation and product range. Starting off with “VEE Blocks” many years ago, wall construction methods have changed every ten years or so through “Crib”, “Mini-Crib” “L Type panels” through to when we introduced “Mass bloc™” which revolutionised wall construction in Tasmania. This was the first iteration of a so called “Big Block” system of walling. Recently we added the “Lock Block”, a “Lego™” type dry joint system ideal for containment of landscaping materials, tyres etc. International trends started to follow the USA with their love of faux rock faces on almost all walls they construct. This has led to the growth of what is known as “Big Block” wall construction with numerous systems available ‘off the shelf’. We were not happy that the systems on offer were 1) The best they could be and 2) We don’t want license fees going offshore and also ongoing formwork purchases having to also be sourced from overseas.

Hudson Civil set about designing the best system we could. **The new “Rock Block” wall system is quite simply the most cost effective, most site friendly, with the fastest installation currently on offer in the world.** The whole system has been designed in house. Moulds manufactured here and all the intellectual property remains in Tasmania. This is something we are extremely proud of. This ‘in house’ design gives us the flexibility to adapt and design a wall to any situation without having to go to a patent owner overseas, we can adapt quickly and any project specific requirement can be resolved immediately.



What makes Rock Block the best big block system in the world?

Simplicity In design, construction & the number of components required

Flexibility Wall can be installed as a vertical wall, laid back, granular fill, concrete fill or even reinforced earth type walls utilising tie rods or geo grids.

Cost effective Time is money, this wall is fast. Fast to unload, store and install. Nothing else comes close.

ROCK block

Quite simply, your next wall should be a Hudson Civil wall and that wall should be a Rock Block wall

Rock Block is unique in that the number of block types is lower than any comparable system. Our design allows the one standard block to be used as a base block, a standard mid wall block and a top block. The savings of storage and handling on site should not be overlooked as this leads to massive savings during wall construction.

The only other components you need are corner blocks and wall capping's, that's it, KISS is the catch cry we have sought to embed in the Rock Block system.

This simplicity of wall design and wall construction does not impede Rock Blocks ability to perform at any height, with any imposed load. Hudson Civil offers a free design guide to assist with your wall and can provide a full service if required including geo technical and structural design, all in house, all performed by Tasmanians.



Rock Block walls are suitable for any earth retaining project including:

- Mass gravity walls
- Seawalls
- Reinforced soil walls
- Bridge Abutments
- Wingwalls



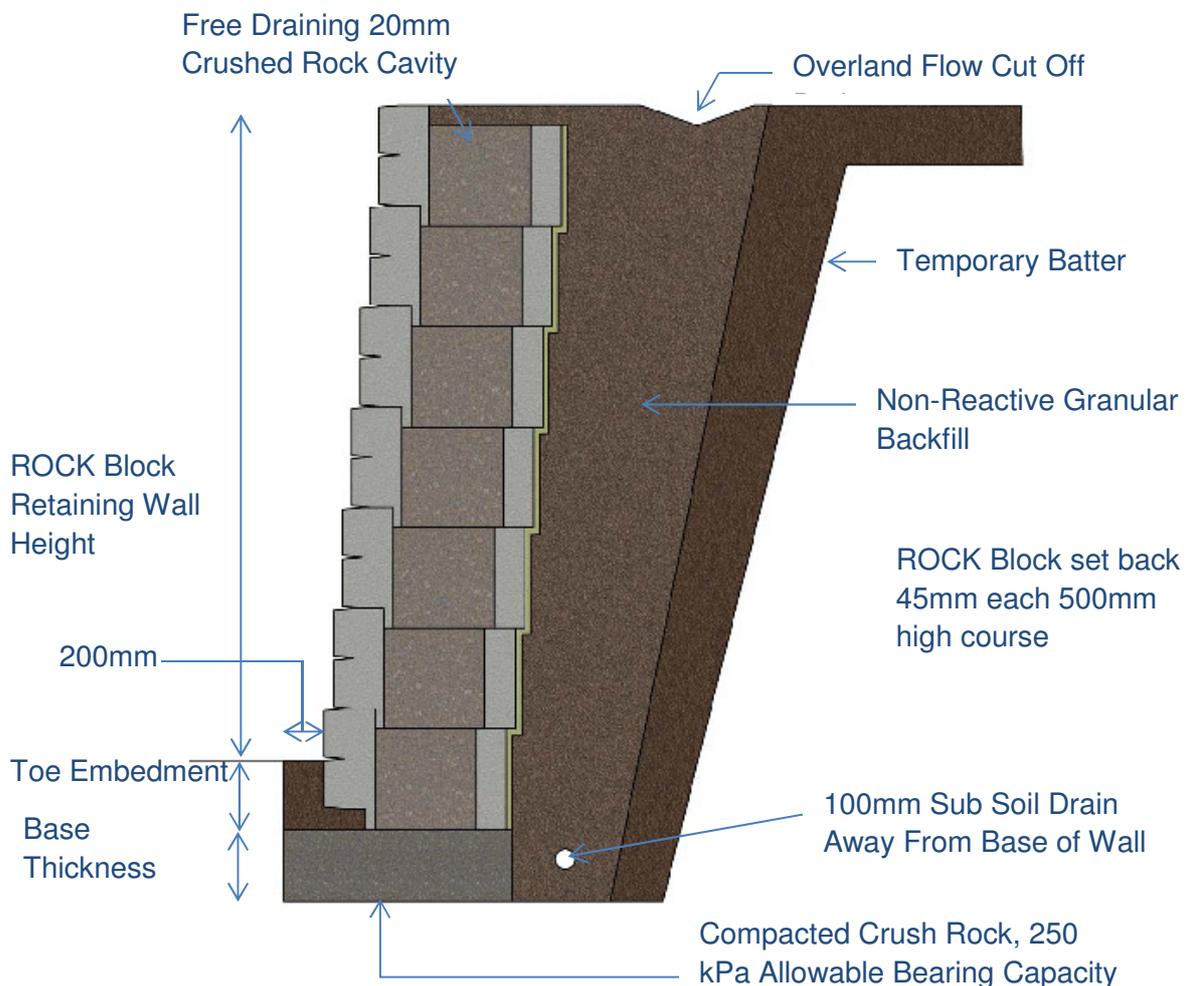
The dry stacked construction method combined with the ability to vary both the infill and backfill materials ensures that any hydraulic and drainage requirements are addressed in any situation. The hollow nature of the blocks allows larger quantities of 'facing' to be transported versus a solid block system

ROCK block

ROCKBLOCK Retaining Wall

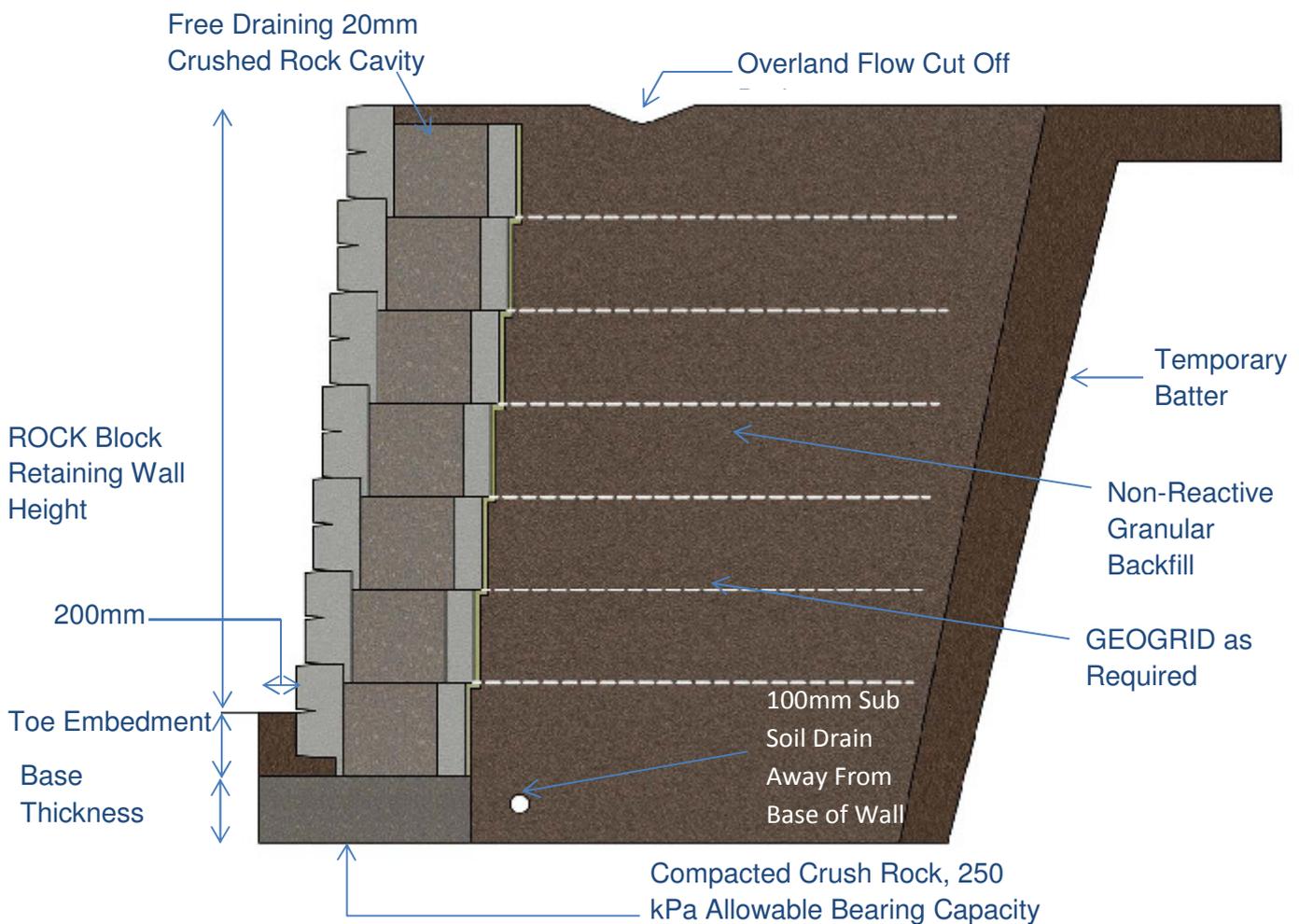
		Soil friction angle			
			30	35	45
Backfill slope	Level	No. Blocks	5	6	7
Backfill surcharge	0 kPa	Height	2200	2700	3250
		Toe embedment	300	300	250
Backfill slope	1:10	No. Blocks	4	5	6
Backfill surcharge	0 kPa	Height	1800	2300	2800
		Toe embedment	200	200	200
Backfill slope	Level	No. Blocks	4	5	6
Backfill surcharge	5 kPa	Height	1700	2200	2700
		Toe embedment	300	300	300

Rock Block retaining wall detail is presented in this manual is indicative only. Maximum heights and toe embedments have been determined using assumed site features, soil properties, construction processes, and loading conditions and may not be applicable to specific sites. Design and construction methodology must be undertaken by an appropriately qualified Engineer taking site properties and in-service conditions into account.



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The simplicity of the Rock block's design comes to the fore when higher walls requiring additional support are required. The flat surfaces of both the upper and bottom faces of the Rock block allow for safer use of Geogrids as there are no 'knobs' to shear or punch holes in to the geo grid you can have absolute confidence that the Geogrid is acting to 100% of its potential.



Please contact your local Hudson Civil office to discuss your retaining wall requirements as we have many solutions available.

MASS Bloc

LOCK Block

ROCK Block



ROCK block

ALL ROCK Blocks utilise the modern "Swift Lift" system for enhanced safety.



STANDARD BLOCK

The "workhorse block" is the key to why our design is so unique. This one block used as a Base, Intermediate and Top block.
1500mm x 500mm x 900mm Deep (plus 100mm "toe" when used as a base block)



FULL CORNER BLOCK

1500 mm x 500mm x 750mm Deep
Left or Right Handed
Blocks are solid



HALF CORNER BLOCK

750 mm x 500mm x 750mm Deep
Left or Right Handed
Blocks are solid

Capping Stones also available

ROCK block

Design your ROCK Block wall here

1. Wall Height (Ground level to Top of Wall).....

2. Wall Length

3. Please sketch a typical section of your wall below, include any roads, buildings and other items that may influence the design.

