



SELF BINDING DONEGAL QUARTZITE GRAVEL



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McMonagle Stone's self binding gravel is a natural quarried quartzite from our Donegal Quartzite quarry in Largybrack, Glencolumbkille, County Donegal. The gravel is carefully selected and graded from approximately 10mm to fines (dust).

Due to the natural properties of the quartzite, the fines (dust) act as the binding agent when wet and compacted forming a natural self-binding surface. This natural looking, cost effective, low maintenance gravel is commonly used on pathways and landscaping projects.

To avoid a loose waterlogged or rutted surface it is important to ensure self binding gravel is laid correctly.



LAYING GUIDE



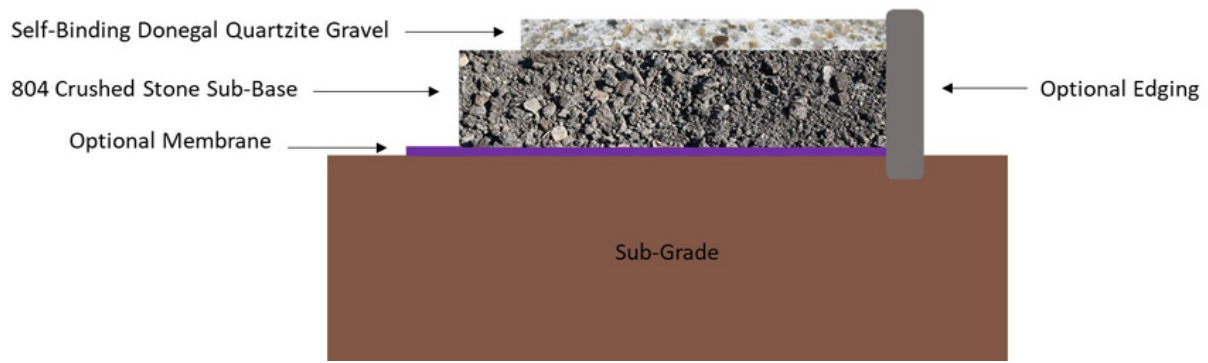
Light Foot Traffic

If ground conditions warrant it, a sub-base of no less than 75mm deep should be laid over a prepared sub-grade with an optional separation membrane between the sub-grade and sub-base. Once compacted, the self-binding gravel can be spread over the surface to a depth of 40 - 50mm and then compacted.



Light Vehicle Traffic

It is recommended that a sub-base of at least 100mm thick is required for light vehicular traffic. Once compacted, the self-binding gravel can be spread over the surface to a depth of 50mm and then compacted.



Sub Base

Self binding gravel must be laid on a porous sub base material such as 804 crushed stone to ensure that water is not held in or below the self binding gravel. The depth of the sub base must also be suitable to support the proposed traffic may that be foot traffic or vehicle traffic (See above).

Compaction

Self binding gravel should only be laid on a well compacted foundation to ensure fines stay on the surface for a tight bonded finish. A vibrating roller or similar must be used on the foundation and self-binding gravel layer to achieve ultimate compaction. Water should be added as a fine spray or directly onto the roller avoiding not to over water. If too wet then you will need to allow to dry (this can take many days if heavily saturated).

Water Drainage

To ensure adequate water drainage it is important to lay self binding gravel to falls of 1-55 to 1-60. It is not recommended to lay self binding gravel on steep slopes with a fall greater than 1 in 15. There is the option to terrace steep slopes or mix white cement to a ratio of 1 part cement 6 parts self binding gravel and compact as normal. It is important to not add extra water unless necessary, once a uniform compacted surface is achieved you should allow time to settle and dry out before being used.



MAINTENANCE GUIDE

01

Remove Leaves

It is recommended to remove leaves with a blower. Avoid heavy sweeping.

02

Weed Killer

Use a water-based weed killer to combat weed growth. Avoid lifting weeds until destroyed to avoid disruption to the compacted surface.

03

Water Drainage

Always ensure drains and gutters are kept clear to allow surface water drainage.

04

Loose Surface

Over time you will notice segregation (loose surface dressing) due to weather and traffic. If you prefer a smooth appearance, you can use a soft brush to sweep away loose chipping.

05

Potholes

If your area experiences potholes please ensure to repair by cutting out the pothole area to a straight edge and replace with fresh self binding gravel.

06

Resurfacing

If you plan to resurface, please ensure the surface is scarified to a depth of 25mm and the loose material discarded before applying a fresh layer of self binding gravel.



NEXT STEPS

Please contact our sales team should you require any assistance or have any queries relating to our Self Binding Donegal Quartzite Gravel.



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