Press Release
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New retaining wall system from Stanton Bonna uses less concrete

Stanton Bonna Concrete has introduced a greener, leaner, cleaner retaining wall system to the UK.

The new precast concrete Bonna MaxumStone is a big block hollow core retaining wall system, manufactured using 40% less concrete than traditional blocks, which makes it lighter to manoeuvre and so more units can be delivered on a lorry.

The hollow core elements are infilled with free draining material, which provides the extra mass that is necessary with gravity wall solutions, this method also minimises the effects of hydrostatic pressure that can build up, reducing the footprint and minimising the requirement to export material from site.

The versatile system utilises big blocks to reduce construction time yet the hollow core ensures all units weigh under 650kg, enabling lighter weight machinery to be used.

Gravity walls, Geogrid Walls, Terraced Plantable Walls and Cantilever Walls are all easily achievable with this user-friendly system that has proven successful on hundreds of projects throughout the world.

The Maxumstone system is flexible with taller walls, often utilising geogrids rather than extenders to reinforce the soil mass behind Bonna MaxumStone units. This is ideal when car parks or highways are to be positioned behind the wall.

The large vertical and horizontal hollow core makes Bonna Maxumstone the ideal choice for using the units as terraces with planters. The hollow core provides a plantable retaining wall pocket within the retaining wall system.

Cantilever walls can be achieved by inserting steel reinforcement and concrete filling the hollow core.

The system is often used as a water wall with the open core allowing for vertical internal drainage, minimising the effects of hydrostatic pressures behind the walls and facilitating design options for 'rapid draw-down' in the case of flooding.

Bonna MaxumStone retaining wall is available in setbacks of 4.5, 2.4 and 0 degrees (near vertical). Each standard block measures 1220mm x 610mm x 610mm. Half high, end blocks and top blocks are also available.

They rely on their own weight to hold back the earth behind them and are reinforced by the exclusive MaxumStone gravity extenders.

Bonna MaxumStone concrete mass extenders are available in lengths of 610mm and 1220mm and when connected the system can create extenders up to 36 metres or greater if required. Bonna

MaxumStone Gravity Retaining Wall Extenders can replace the need for Geogrid reinforcements by using a tongue-and-groove concrete system that meets or exceeds the demands of engineers.

This system reduces the large footprints demanded by cantilevered traditional gravity retaining walls and gives developers and owners greater use of land above the wall. The concrete mass extenders use a tongue-and-groove connection to lock into the back of the retaining wall blocks.

The extenders may also be locked into each other creating deeper units, allowing for flexible design and easy installation. The system's design allows ample room immediately behind the wall for utility services. Erecting fences and other restraint systems on top of the wall is made simple due to the hollow core design of the blocks.

For further information including a video, 3D Interactive Model and brochure (no form to complete!) please go to the website page at tinyurl.com/maxumstone.

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