



**AVENG**  
**INFRASET**



**SABS***Permit to Apply Certification Mark*

AVENG AFRICA LIMITED  
(TRADING AS AVENG MANUFACTURING INFRASET -  
ROADWAY)  
Co Reg. 101/0030000  
CENTURION

To apply for certification mark:



In respect of the mark application:

SABS 9001:2008  
ISO 9001:2008 CERTIFICATION

The following information is provided for your information and is not intended to be used as a basis for any claim or liability. It is the responsibility of the applicant to ensure that the information is accurate and up-to-date.

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SABS Representative: [Signature]

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Date of Issuance: 11 July 2021  
SABS Representative: [Signature]

**CERTIFICATION**

## AVENG INFRASET

Our active pursuit of extensive interests encompassing the building, construction, engineering and manufacturing industries.

### WE HAVE:

- a long heritage of technical excellence with roots as far back as 1928.
- a business unit often nominated as a preferred supplier.
- played a major role in South Africa's infrastructure development, including many landmark buildings.

### WE ARE DIFFERENTIATED THROUGH OUR:

- engagement with some of South Africa's iconic projects, including, inter alia, Soccer City and Monte Casino.

### SAFETY, HEALTH AND QUALITY

- all our products are manufactured to stringent quality standards and our factories are all SABS ISO 9001-2008, OHSAS 18001-2007 and NOSA accredited.

### ENVIRONMENTAL / SUSTAINABILITY

- World-class concrete products for eco-friendly development.



## OVERVIEW

### Landscape Products

Landscape Products is a recognised trend-setter. We supply an innovative and diverse range of landscape products, of which several make a substantial contribution to sustainable and ecologically-friendly environments. Produced to world class quality standards in compliance with SANS using the ISO 9001:2008 quality management system, the range includes erosion control systems, paving, permeable paving and kerbing, retaining wall systems and embankment seating.

### Paving

Aveng Infraset has invested in a number of the world's most technically advanced paving and retaining block plants which introduces new, and in many instances, unique product options for landscape architects and other construction professionals.

These new-generation plants has extended Landscape Product's offering to include dry-pressed flagstone (Villa) pavers, and exposed aggregate pavers.

Produced to fine tolerances and best practice standards, the plant is also being used to upgrade existing product ranges.

### Retaining walls

Landscape Products offers four retaining wall systems, Terrace Blok®, Löffelstein®, Waterlöffel® and RidgeBlok® INFRABloks.

An ideal system for domestic applications, terraces and garden settings, the Terrace Blok® retaining wall system can be used by both the DIY enthusiast and professional landscapers. Moreover, it has several unique features which have established it as a market leader. It is economical, allowing for seven blocks per square metre, and can be used in either open or closed face configurations. The latter is achieved by using a unique slider that fits easily between the blocks.

Löffelstein® is a heavy-duty system specifically designed for cut or fill slopes with heights of between 3m – 15m. It is structurally stable and ideal for walls built at steep angles. Löffelstein® blocks have a thick base which prevents them

from being crushed by the mass of the wall. They can be used as a facing to geo-synthetic reinforced slopes or for geonail or rockanchored cut slopes.

RidgeBlok® is a dry-stacked concrete block system for building retaining walls at angles of between 75 and 85 degrees. It is also suitable for tight convex or concave curves, and is one of the very few retaining wall systems which can be erected at a true 90 degrees.

### Kerbs

The range includes some of South Africa's most popular kerbs and is manufactured to SABS standards and accurate tolerances.

### Embankment seating

Durable and maintenance-free, Landscape Products' embankment seating provides cost-effective seating solutions for major stadiums, schools, parks and public spaces.

Any technical information provided by Aveng Infraset in relation to any product or system (whether before or after order) is provided by way of GUIDANCE ONLY and, to the fullest extent permitted by law, without liability on the part of Aveng Infraset for any loss or damage suffered as a result of relying upon it. Such technical information should not be relied upon in substitution for obtaining independent expert advice prior to using any product or system from both a suitably qualified engineer and building contractor, in particular, as to the suitability of the product or system for use at the intended site for the intended scheme.

Our factories are all SABS ISO 9001-2000 accredited.

# LANDSCAPING - COLOUR CHART

## Single Colour Range



Grey



Tan



Red



Brown



Charcoal

## Mixed Colour Range



Rust



Ivory



Sahara Sands



Multi Blend

## Mixed Colour Range With White cement



Ash



Natural



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# PAVING

## *Features of our Paving systems*

### **DESIGN FLEXIBILITY**

Our pavers offer landscape architects and other construction professionals an extensive array of paving options. Shape, thickness and strength ratings are all variable, depending on the application, and textures can be specified to suit specific conditions. Available in a virtually limitless colour spectrum, including warm, subtle and body-through variants, the range also includes multi-blend and bespoke options.

### **WORLD-CLASS TECHNOLOGY**

Production is centered on some of the world's most technically advanced paving and retaining block plants. Commissioned in 2011, the new plant was custom-built by Germany's Masa Group. This new generation plant has extended our landscape product offering to include dry-pressed flagstone (Villa) and exposed aggregate pavers. The new plant includes steel production pallets for enhanced vibration transference, in-line washing and sealing, ageing and waving techniques, and very tight dimension control.


### **APPLICATIONS AND DURABILITY**

Our pavers are used extensively in domestic, commercial and industrial applications. Driveways, parking areas, forecourts, industrial storage yards, paths, pedestrian malls and patios are some of the applications where our pavers are to be found. Easy to install and requiring very little maintenance, our pavers are renowned for their strength and durability.

**Cement grouting not recommended on all our pavers.**


### **GUARANTEED QUALITY**

All products are manufactured to stringent quality standards and fine tolerances in compliance with the ISO 9001:2008 quality management system. This ensures superior product performance and enhanced aesthetic appeal.



We supply a wide range of paving options in numerous shapes, sizes, finishes and strengths, in virtually any colour or multi-colour variant. State-of-the-art plants and computerised concrete batching ensure best-practice production to high quality standards and close tolerances.



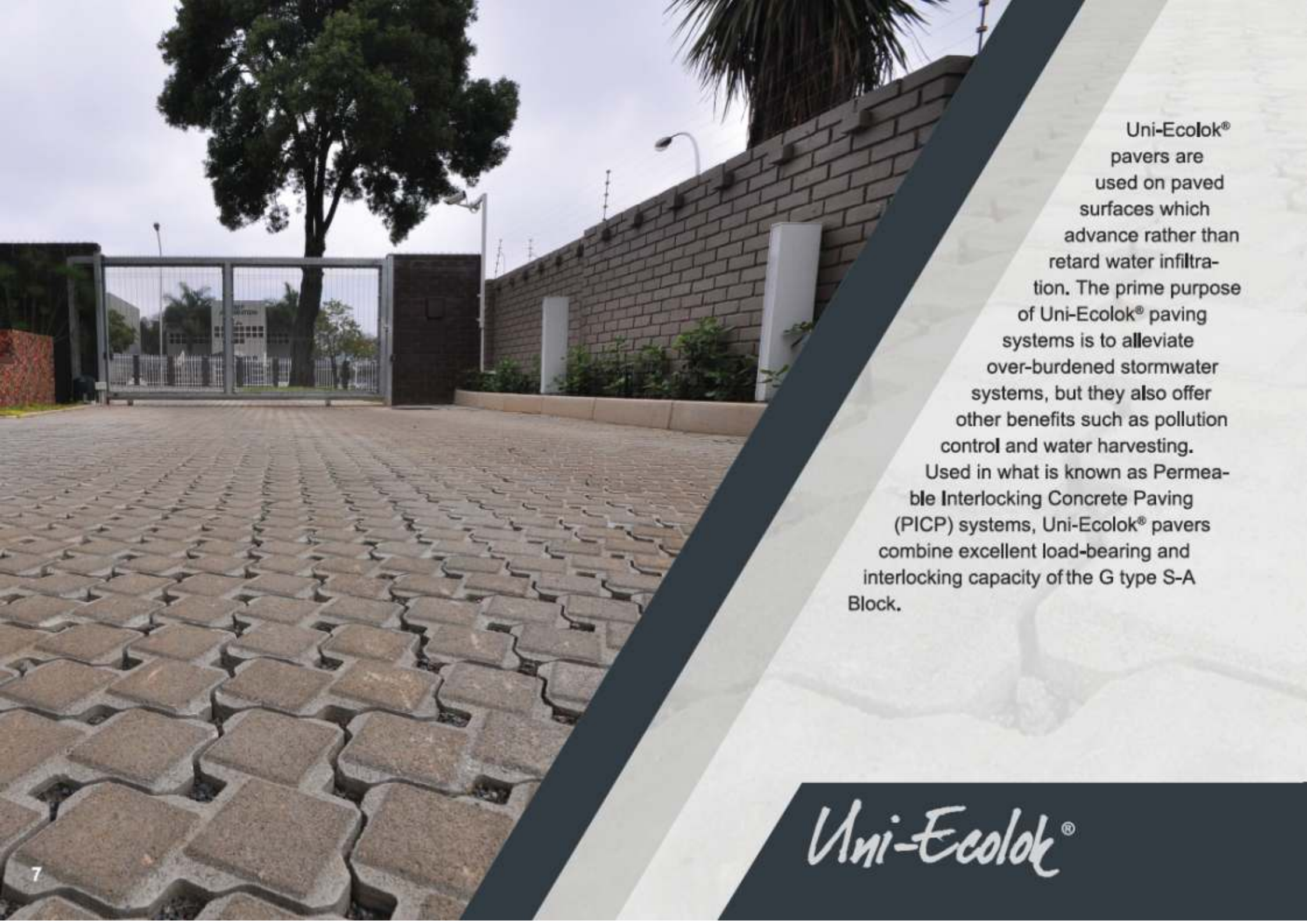


## MONTE CASINO, FOURWAYS, JOHANNESBURG

Monte Casino is a prime example of how quality precast concrete pavers can provide aesthetically pleasing and durable surfaces. The project involved paving 7 000m<sup>2</sup> of roads, taxi ranks, car parks and a piazza area with 80mm Village Cobble Charcoal Bushed Pavers in 2002.

The site is a very popular venue drawing large numbers of people on a daily basis to its numerous entertainment, hotel and conference facilities. Despite heavy traffic volumes, which includes trucks, these paved roads and parking areas have worn extremely well and look as good, if not better today, than when they were first installed.





Uni-Ecolok® pavers are used on paved surfaces which advance rather than retard water infiltration. The prime purpose of Uni-Ecolok® paving systems is to alleviate over-burdened stormwater systems, but they also offer other benefits such as pollution control and water harvesting. Used in what is known as **Permeable Interlocking Concrete Paving (PICP)** systems, Uni-Ecolok® pavers combine excellent load-bearing and interlocking capacity of the G type S-A Block.

*Uni-Ecolok®*



## PRODUCT FEATURES

### Precision

- Deal with run-off close to where it falls.
- Manage potential flooding at its source.
- Allow new development in areas where existing drainage systems are at full capacity, thereby enabling new development within existing areas.
- Protect water resources from accidental spills and pollution.
- Protect or enhance water quality.
- Encourage natural groundwater recharge.
- Blend in with the environmental setting and assist the needs of the local community.
- Provide a habitat for wildlife in urban areas.

### Versatility

The inclusion of Uni-Ecolok® PICP as part of a drainage system will not only increase the likelihood of planning proposals being approved but may also offer the developer considerable cost savings over traditional methods

(detention ponds, pipes, manholes etc) due to a significant reduction in stormwater management costs.

### Four elements of permeable paving

There are four elements which make up permeable paving:

- 1 Permeability
- 2 Detention of stormwater
- 3 Pollution control
- 4 Structure.

### Permeability

Uni-Ecolok® PICP systems have permeability rates of up to 1 800 litres/sec/hectare, providing a significant performance improvement over what is normally regarded as the required permeability rate of 180 litres/sec/hectare.

Full technical brochure available for this product upon request.



The photographs in this brochure do not necessarily reflect actual product colours.





Since its introduction to South Africa, Masonique® has earned an enviable reputation as a state-of-the art paver. The reasons are many, including its elegance, beauty and versatility. In addition to being bevelled on both sides, Masonique® allows for easy installation and maintenance. Because chipped or damaged pavers can be turned over and used, site wastage is significantly reduced.

**masonique®**



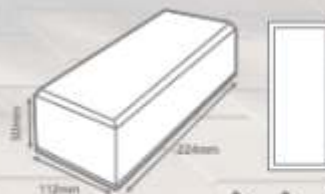
## PRODUCT FEATURES

### Precision

- Warm, subtle, body-through colours including multi-blend options.
- A texture that blends naturally with the environment.
- Non-slippery when wet.
- Exciting and interesting shapes and designs can be created.
- Strong and durable. Manufactured from quality materials.
- Light, easy to handle and install.
- Cement grouting not recommended.
- With its superior abrasive resistance this product is a must for hard working areas.
- Consistent thickness due to unique manufacturing process.
- 20% Bigger footprint compared to the Bevel paver allows for quicker laying.

### Versatility

50mm thick: Driveways, walkways, pedestrian malls, patios, pathways and pool surrounds.



### Dimensions

Length : 224mm  
Width : 112mm  
Thickness : 50mm

### Coverage

Approximately 40 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.

The photographs in this brochure do not necessarily reflect actual product colours.



## PRODUCT FEATURES

### Precision

- This unique paver features a non-bevelled edge on one face, making it ideal for use in public areas and shopping centres where trolley friendly surfaces are required.
- With its superior abrasive resistance this product is a must for hard working areas.
- Highly cost-effective with only 33 blocks required for each m<sup>2</sup> of paving and is offered in a range of body-through colours

### Versatility

- This paver is not restricted to conventional pavements.
- It can be used for constructing flower boxes, stairs, benches, municipal pavements, walkways, traffic islands and parking areas.
- A variety of contrasting effects can be created when used in conjunction with our wide range of paving products.

### Dimensions

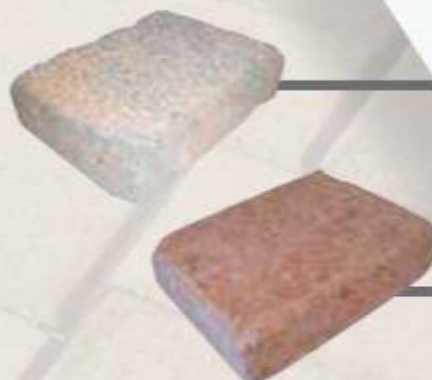
Length : 200mm  
Width : 150mm  
Thickness : 50mm

### Coverage

Approximately 33 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



– Bush Hammered



– Rumblestone

The photographs in this brochure do not necessarily reflect actual product colours.



## PRODUCT FEATURES

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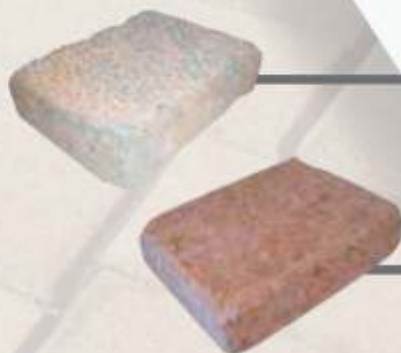
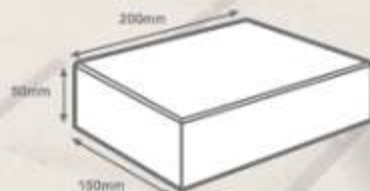
Length : 200mm  
Width : 150mm  
Thickness : 50mm

### Coverage

Approximately 33 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



– Bush Hammered



– Rumblestone

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Village Cobble® is a paving stone which in an inimitable way imparts the character of cobbles to the paved area.



**VILLAGE  
COBBLE®**



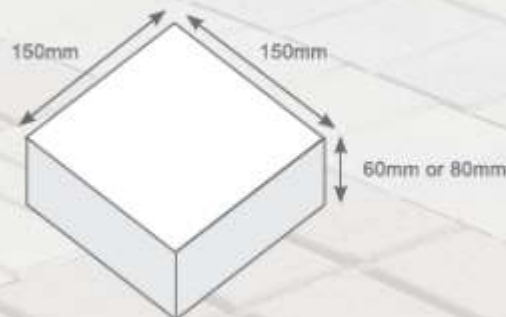
## PRODUCT FEATURES

### Precision

- Village Cobble®, features a bevelled edge. However it can be rumbled to provide the designer with a more rustic feel and can be bush-hammered.
- Its shape and texture make it an ideal contrasting material when used with any of the many other pavers in our range.
- The paver is supplied in a range of colours.

### Versatility

- Ideal for use in townhouse complexes, shopping malls, office blocks, homes and sidewalks.
- In addition, as a result of its thickness, it is also suitable for use in car parks and driveways.



### Dimensions

Length: 150mm

Width: 150mm

Thickness: 60mm and 80mm.

### Coverage

Approximately 44 blocks per m<sup>2</sup>.


### Estimating

Allowance must be made for laying tolerance and edge cutting.



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Bevel is a trusted favourite across the paving industry sectors for many years. Bevel is manufactured in a 50mm thick version only.

**BEVEL**



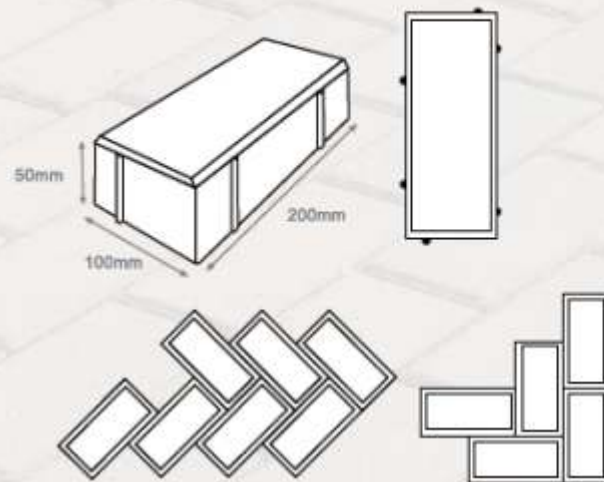
## PRODUCT FEATURES

### Precision

- Warm subtle colours.
- A texture that blends naturally into the environment.
- Non-slippery when wet
- Moss resistant
- Exciting and interesting shapes and designs can be created.
- Strong and durable.
- Easily lifted and replaced.
- Easy maintenance

### Versatility

- Driveways, walkways, pedestrian malls, patios, pathways and pool surrounds.
- Anywhere you need a surface that looks good, lasts longer and is virtually maintenance free.



### Dimensions

Length: 200mm  
Width: 100mm  
Thickness: 50mm.

### Coverage

Approximately 50 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.

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Villa is ideally suited to squares, shopping malls, inner courts, patios and swimming pool surrounds, and is manufactured using the latest German dry-casting technology.

Architects are favouring the contemporary look that flagstone pavers provide.

**villa**



## PRODUCT FEATURES

### Precision

- The Villa range is manufactured using the latest in big-board paving technology from Germany.
- The technical superiority of our new manufacturing technology facilitates superior colour blending and includes in-line washing and sealing, ageing, as well as a variety of exposed aggregate finishes.

### Versatility

- Ideally suited to public squares, paths and pavements, shopping malls, inner courts, patios and swimming pool surrounds



### Dimensions

500x250mm

400x300mm

200x100mm

The Villa flagstone range is being produced in a 60mm thickness

The photographs in this brochure do not necessarily reflect actual product colours.





Classic Cobble™ gives a beautiful small cobblestone effect to paved areas and can be used in conjunction with the Craz"E"™ Classic Cobble™ which gives a more rustic effect to the cobblestone.



Classic  
Cobble™



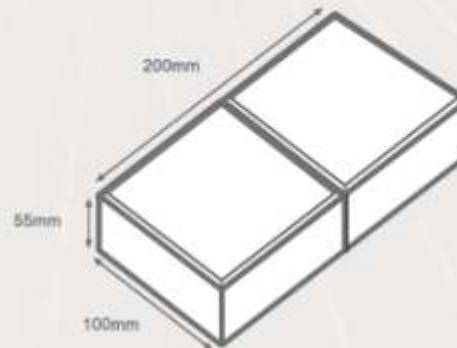
## PRODUCT FEATURES

### Precision

- Made 55mm thick for added load bearing capability
- Strong and durable
- Easily lifted and replaced
- Easy maintenance
- Light and easy to install

### Versatility

- Ideal for use in townhouse complexes, shopping malls, office blocks, homes and sidewalks.
- In addition, as a result of its thickness, it is also suitable for use in car parks and driveways.



### Dimensions

Length: 200mm

Width: 100mm

Thickness: 55mm.

### Coverage

Approximately 50 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



The photographs in this brochure do not necessarily reflect actual product colours.





Craz "E"<sup>™</sup>  
Classic Cobble<sup>™</sup>  
gives a beautiful  
small cobblestone  
effect to paved areas.

Craz "E"<sup>™</sup> Classic Cobble<sup>™</sup>  
can be used in conjunction  
with Classic Cobble<sup>™</sup> which  
gives a more rustic effect to the  
cobblestone.



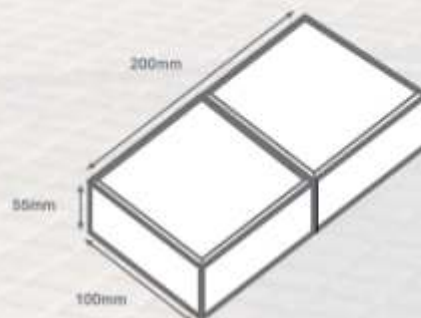
**CRAZ "E"<sup>™</sup>**  
**Classic Cobble<sup>™</sup>**



## PRODUCT FEATURES

### Precision

- Made 55mm thick for added load bearing capability
- Strong and durable
- Easily lifted and replaced
- Easy maintenance
- Light and easy to install



### Versatility

- Ideal for use in townhouse complexes, shopping malls, office blocks, homes and sidewalks.
- In addition, as a result of its thickness, it is also suitable for use in car parks and driveways.

### Dimensions

Length: 200mm

Width: 100mm

Thickness: 55mm.

### Coverage

Approximately 50 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



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Uni-Decor® is one of our original Type S-B interlocking pavers and has been in the market for 30 years. It still remains a popular choice with architects and developers.



**UNI-  
DECOR®**



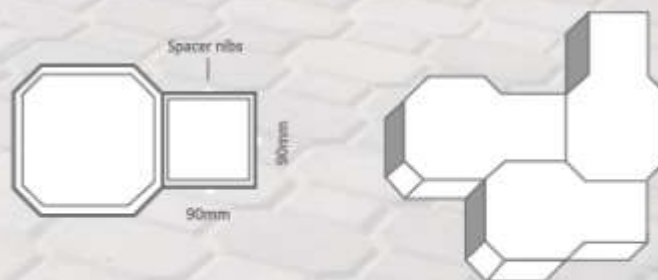
## PRODUCT FEATURES

### Precision

- Designed for strength and durability, the interlocking action increases load-carrying capacity.
- The chamfered edges preserve the driving surface.
- Underground services can be reached easily and quickly.
- Warm subtle colours.
- A texture that blends naturally into the environment.

### Versatility

- Commercial forecourts, shopping malls, townhouse developments, driveways, pavements and
- Walkways, patios, courtyards and parking lots.



### Dimensions

Length: 230mm

Width: 140mm

Thickness: 60 or 80mm

### Coverage

Approximately 38 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



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G-Blok™, the paving surface that will provide a good, durable, load bearing and driving surface, requiring little maintenance.

The original Type-SA Paver that has been copied by the market because of its structural strength.

Still the only Type-SA paver that is 40 Blocks per SQM therefore 20% larger than the market offering.



**G-Blok™**



## PRODUCT FEATURES

### Precision

- Fewer base layers are required because the precision-made interlocking G-Blok™ forms an integral part of the structure, carrying and spreading the load.
- Little maintenance is required as the interlocking action of the G-Blok™ reduces rutting in heavy traffic areas. The chamfered top edges reduce chipping and assist in preserving the jointing sand.
- The paved surface is highly durable.

### Versatility

- G-Blok™ and Craz"E"™ can be used together to create exciting and interesting patterns.
- The surface can be reinstated after lifting the G-Blok™ to get to under ground services.
- Both level and sloping surfaces can be covered.
- G-Blok™ paving can be used in both heavy traffic and stacking areas and under most soil conditions because of its load-carrying and spreading capabilities.
- Over 80% of G-Blok™ can be recovered and reused, even after many years in use.



- G-Blok™ paving has a safe surface, particularly when wet, because of the textured, non-slip finish of the pavers.

### Applications

Heavy industrial areas, heavy parking areas, abnormally heavy industrial stacking areas, medium industrial working areas, parking areas and driveways, service areas and sloped embankments.

### Dimensions

Length: 221.2mm

Width: 110.08mm

Thickness: 60mm or 80mm

### Coverage

Approximately 40 blocks per m<sup>2</sup>.

### Estimating

Allowance must be made for laying tolerance and edge cutting.



The photographs in this brochure do not necessarily reflect actual product colours.





Craze "E"™  
G-Blok™ paved  
surface is highly  
durable because of  
its strength and  
load-spreading  
capabilities.



#### **Dimensions**

Length: 221.2mm

Width: 110.08mm

Thickness: 60mm or 80mm

#### **Coverage**

Approximately 40 blocks per m<sup>2</sup>.

#### **Estimating**

Allowance must be made for laying  
tolerance and edge cutting.

**CRAZE "E"™**  
**G-Blok™**



## PRODUCT FEATURES

### Precision

- Fewer base layers are required because the precision-made interlocking Craz"E"™ G-Blok™ forms an integral part of the structure, carrying and spreading the load.
- Little maintenance is required as the interlocking action of the Craz"E"™ G-Blok™ reduces rutting in heavy traffic areas. The chamfered top edges reduce chipping and assist in preserving the jointing sand.
- The paved surface is highly durable because of the strength and load spreading capacity of the Craz"E"™ G-Blok™.

### Versatility

- Craz"E"™ and G-Blok™ can be used together to create exciting and interesting patterns.
- The surface can be reinstated after lifting the Craz"E"™ G-Blok™ to get to underground services.
- Both level and sloping surfaces can be covered.
- Craz"E"™ G-Blok™ paving can be used in both heavy traffic and stacking areas and under most soil conditions because of its

221.2mm



110.8mm



load-carrying capacity.

- Over 80% of Craz"E"™ G-Blok™ can be recovered and re-used, even after many years in use.
- Craz"E"™ G-Blok™ paving has a safe surface, particularly when wet, because of the textured, non-slip finish to the pavers.
- The Craz"E"™ G-Blok™ textured block offers an architectural alternative to an industrial pavement.

### Applications

Heavy industrial areas, heavy parking areas, abnormally heavy industrial stacking areas, medium industrial working areas, parking areas and driveways, service areas and sloped embankments.

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# RETAINING WALLS

## Important aspects to consider when constructing Retaining Walls

Any retaining wall must have some form of design. It is therefore critical to consult an engineer when a wall is higher than 1.2m.


A retaining wall must counteract the lateral pressure of the soil behind the wall and the moisture absorbed in the soil behind the wall. The pressure of the soil will push the wall forward or overturn it if not properly designed.

Loading on top of the wall in the form of buildings or vehicles also have an influence on the design of the wall and must be taken in consideration.

Groundwater which builds up behind the wall that is not drained by an effective drainage system will add further pressure on the wall. The fact that there may be openings between the blocks in an open formation block wall does not take this pressure away as the soil behind the wall absorbs the moisture.

Only soils suitable for backfill behind the wall must be used and in general should be G6 or better.

When the weight of blocks alone cannot resist the loading on the wall an Engineered designed wall will incorporate geotextiles to reinforce the wall. Engineered designed walls (by suitably qualified engineering companies) can be safely



A wide range of attractive retaining walls with exceptional features, offering the best in convenience, quality and service excellence.



built by experienced retaining wall contractors in excess of 20m.

In general terms retaining walls fail because there is insufficient drainage, incorrect type or non-use of geo textiles or the geo textiles are not installed in the right position, have not been pulled tight or do not go back for the required length behind the wall. The incorrect compaction of the soil as well as the wrong type of backfill behind the wall can also lead to failure. Foundations form a critical part of the wall and if not done correctly can lead to failure or a wall which is not well built.

When building the wall compaction needs to be done layer by layer behind the blocks. Lay one row of blocks and compact behind and inside the blocks using a mechanical compactor or roller. The first 120mm behind the block should be compacted properly with a hand tamper and the rest as per the Engineers requirement and specification. Then the next row can be started. Soil must be moist. Muddy or dry soil does not compact well, and the required density of the compaction will not be achieved.

Make use of a string line or a dumpy level to pack the walls. Reduce creeping on higher rows around corners by using half blocks when required. Blocks must be level in both directions and not tilting or leaning in any way.

Where Geotextiles are used make sure the Geotextile is laid smoothly and is stretched out.

It is not good practise to allow surface stormwater to cascade over the edge of the wall in an uncontrolled manner as it will erode the soil away inside and around the blocks and will lead to failure..

Good drainage is essential to prevent water build up in the soil behind the wall. Without sufficient drainage, the soil will absorb the moisture and create additional loading behind the wall. Drainage pipes must be laid in crushed stone and protected by Geotextile.







Löffelstein® is a dry stacking, interlocking retaining system. It is unique because of its versatility, adaptability and plantability.

- Structurally stable - no need for additional concrete infill.
- All Löffelstein® systems are available in vertical and heavy duty applications.
- Ideally suited for retaining cut or fill slopes between 3 and 15m high.
- Three basic block sizes - L300/L500/L750.

**Löffelstein®**  
Retaining Systems



## PRODUCT FEATURES

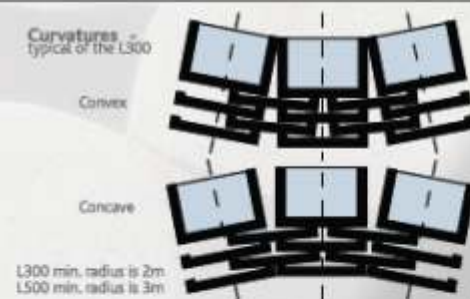
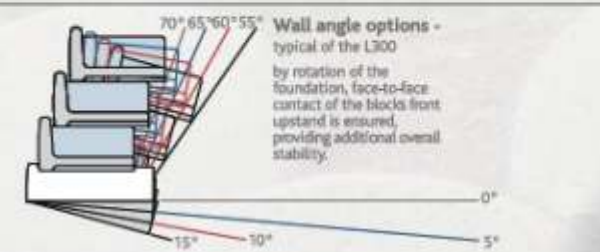
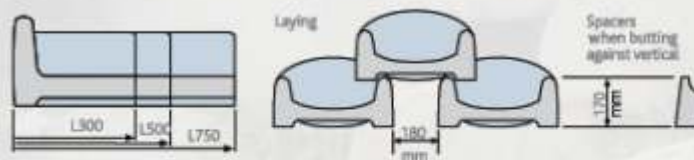
**Löffelstein® heavy duty** - where wall heights exceed 3,5m. This block's thickened base prevents it being crushed under the wall's own mass. This specially engineered block is employed as a facing to geosynthetic reinforced slopes or for geonail or rock-anchored cut slopes. The L750 block is used for critical path design applications where certain design criteria call for maximum mass per m<sup>2</sup>.

**Löffelstein® vertical** - two undercut corners permit wall construction at an angle of 87°. It can be used in conjunction with the standard block in restricted areas, and in the construction of higher structures, used in conjunction with geosynthetic reinforcement, cement stabilization, geonailing, rock anchors or other soil stabilization methods. When compared with conventional retaining structures, such custom designed walls can contribute to dramatic savings in time and money.

**Foundations** - must be designed to suit individual projects. In most instances a simple concrete foundation will suffice.

**Technical advice** - the structural stability of a gravity retaining system depends on soil conditions, wall angle, overall slope stability and slope angle (surcharge) on the top and the base of the wall. NB - Structures exceeding 1,2m in height necessitate engineered designs and the submission of plans to the local authority. Note - This leaflet serves only as a guideline.

**Full technical brochure available for this product upon request**



Technical Data	L300	L500	L750
Mass per block - approx.	34kg	52kg	82kg
Length	300mm	500mm	750mm
Width	450mm	450mm	450mm
Height	170mm	170mm	170mm
No. of units per linear metre	1,6	1,6	1,6
No. of blocks per m <sup>2</sup> (not influenced by the wall's angle)			
- Straight line	9,5	9,5	9,5
- Curved structures	10-12	10-12	10-12
Variable wall angle options			
- Maximum std blocks	70°		
- Maximum std blocks	87°		



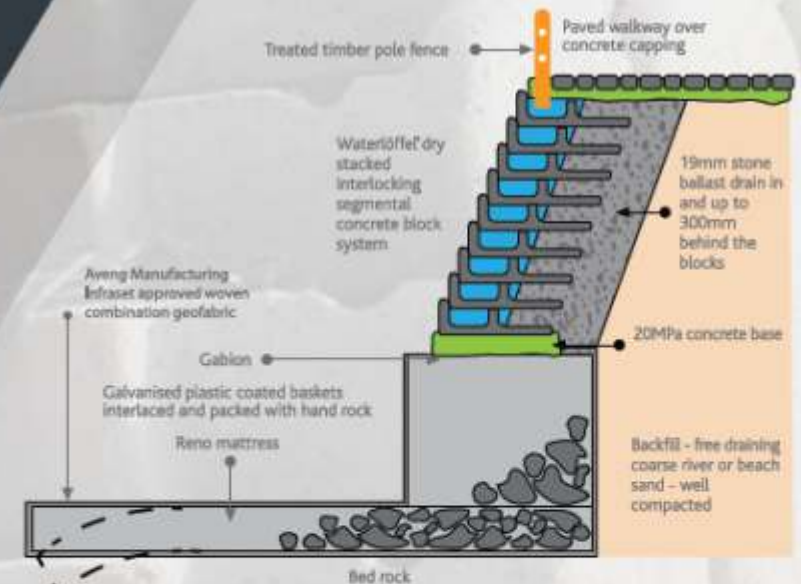
The photographs in this brochure do not necessarily reflect actual product colours.





Waterlöffel® is a versatile, interlocking, dry-stack concrete retaining system.

Typical cross-section of a sea-wall



**Waterlöffel®**  
Retaining Systems



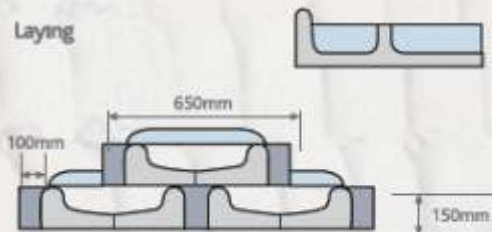
## PRODUCT FEATURES

### Uses for Waterlöffel® in construction:

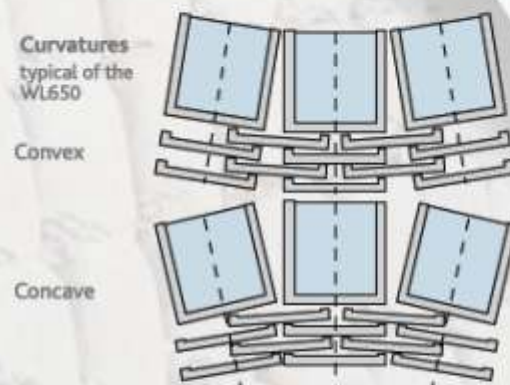
- Coastal dune erosion by wave action and wind.
- River bank erosion in water courses by seasonal storms.
- Erosion of stormwater outlets.
- Sea walls
- Coastal promenades
- Beach-access ramps
- Bio-filters
- Dam walls
- River weirs
- Marina waterways
- Canals.

Technical Data	WL650
Mass per block - approx.	72 kg
Length	650mm
Width minus wings	450mm
Width with wings (100mm each)	650mm
Height	150mm
Number of blocks per m <sup>2</sup>	
- Straight line	11
- Curved structures	12
Standard wall angle	65°

**Technical advice** - Waterlöffel® walls are design intensive and as the manufacturers of this specialised product, we recommend that you use the services of a recognised geotechnical or hydraulic engineer to design your projects.



Wall angle options typical of the WL650



The photographs in this brochure do not necessarily reflect actual product colours.





Terrace Blok®  
TB 190 is a light  
versatile concrete  
block which provides  
the ideal solution for  
homeowners and DIY  
enthusiasts wishing to  
provide support to slopes in  
their gardens.



Available in Grey, Multiblend and  
Tan are made to order, quantity dependent.

**Terrace  
Blok® TB 190**



## PRODUCT FEATURES

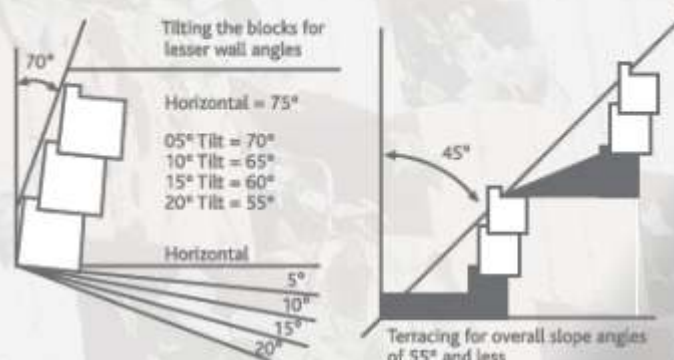
### Uses for Terrace Blok® TB 190 in construction:

- With the Terrace Blok® TB 190 construction is simple. Blocks can be rapidly stacked without the need for foundations or mortar.
- The Terrace Blok® TB 190 can be stacked to accommodate straight edges, curves or right angles. Its applications are limited only by your imagination.

### Keep in mind:

The overall stability of a gravity retaining structure relies on the mass of the wall per square metre. For this reason the following safety pointers should be kept in mind:

- Unusual conditions should be accommodated at design phase
- Near vertical structures should not exceed a height of seven courses or 1 260mm.
- Should your requirement be for higher structures at steeper wall angles, the bigger Terrace Blok™ TB 300/490 and Löffelstein™ systems should be used.
- Before building your wall ensure that you comply with your local bylaws and requirements.



**Full technical brochure available for this product upon request**

Technical Data	TB190
Mass per block - approx.	± 17,5 kg
Length	390mm
Depth	190mm
Height	180mm
Number of blocks	
- per m²	± 9
- per linear metre open space	1,8
- closed space	2,5
Maximum height @ 70/75	1,2m *
	7 courses

\* Subject to confirmation with varying soil conditions



The photographs in this brochure do not necessarily reflect actual product colours.





Terrace Blok®  
TB300/490 system  
has unique features  
that firmly establish it as  
a market leader.



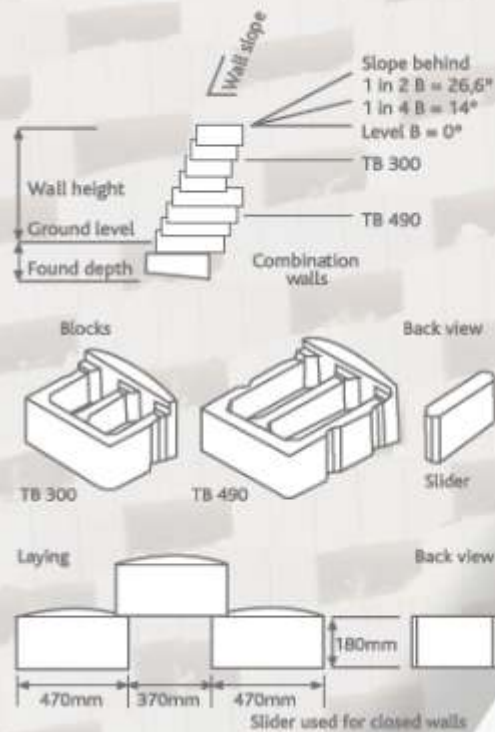
**Please note that sliders must be ordered  
seperately.**

**Terrace  
Blok®** TB 300  
TB 490



## PRODUCT FEATURES

- **Economical** - Seven blocks per square metre.
- **Open or Closed Face Options** - by using a unique slider that fits easily between the blocks.
- **Plantability** - it's open bottom-hole design and trough shape create a greenhouse effect within the environs of the block. This promotes rapid healthy plant growth with unrestricted root systems that aid in the stabilisation of the bank.
- Check with your local authorities regarding their requirements for the design, plan submission and stability certification of your retaining structure before commencing construction.



**Full technical brochure available for this product upon request**

Terrace Blok®TB300/490 is available in Grey, Multiblend and Tan are made to order. quantity dependant

\*Speak to your sales consultant to confirm minimum quantities required on stock made to order.

Technical Data	TB 300	TB 490
Mass per block	37 kg	51 kg
Length	300mm	490mm
Width	470mm	470mm
Height	180mm	180mm
Number of blocks per m <sup>2</sup>		
- Straight line	7	7
- Curved structures	8-9	8-9
Standard wall angle	75°	75°
Engineered options	55°/ 75°	55°/ 75°

The photographs in this brochure do not necessarily reflect actual product colours.





InfraBlok™ 350  
retaining rock face  
system is unique in it's  
flexibility and aesthetic  
appeal.



**InfraBlok™** | 350

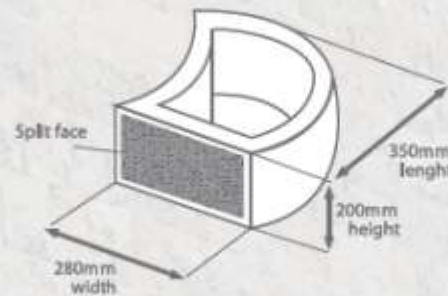


## PRODUCT FEATURES

- The block allows for the creation of convex or concave curves.
- Transition from vertical concrete filled to plantable inclined installations can easily be achieved.
- The blocks interlock in the horizontal plane.
- The construction of complex staircases can be incorporated into the wall with relative ease.
- Vertical structural walls can be achieved using reinforced concrete to create columns within the wall.
- Handrails, light posts and fences can be set in concrete on top and within the block.
- The closed-face construction method allows for maximum wall mass and effective backfill compaction.
- It is ideal to fill the blocks (in the offset configuration) in order to landscape the completed wall.

### Note

- Check with your local authorities regarding their requirements for the design, plan submission and stability certification of your retaining structure before starting construction.



**Full technical brochure available for this product upon request**

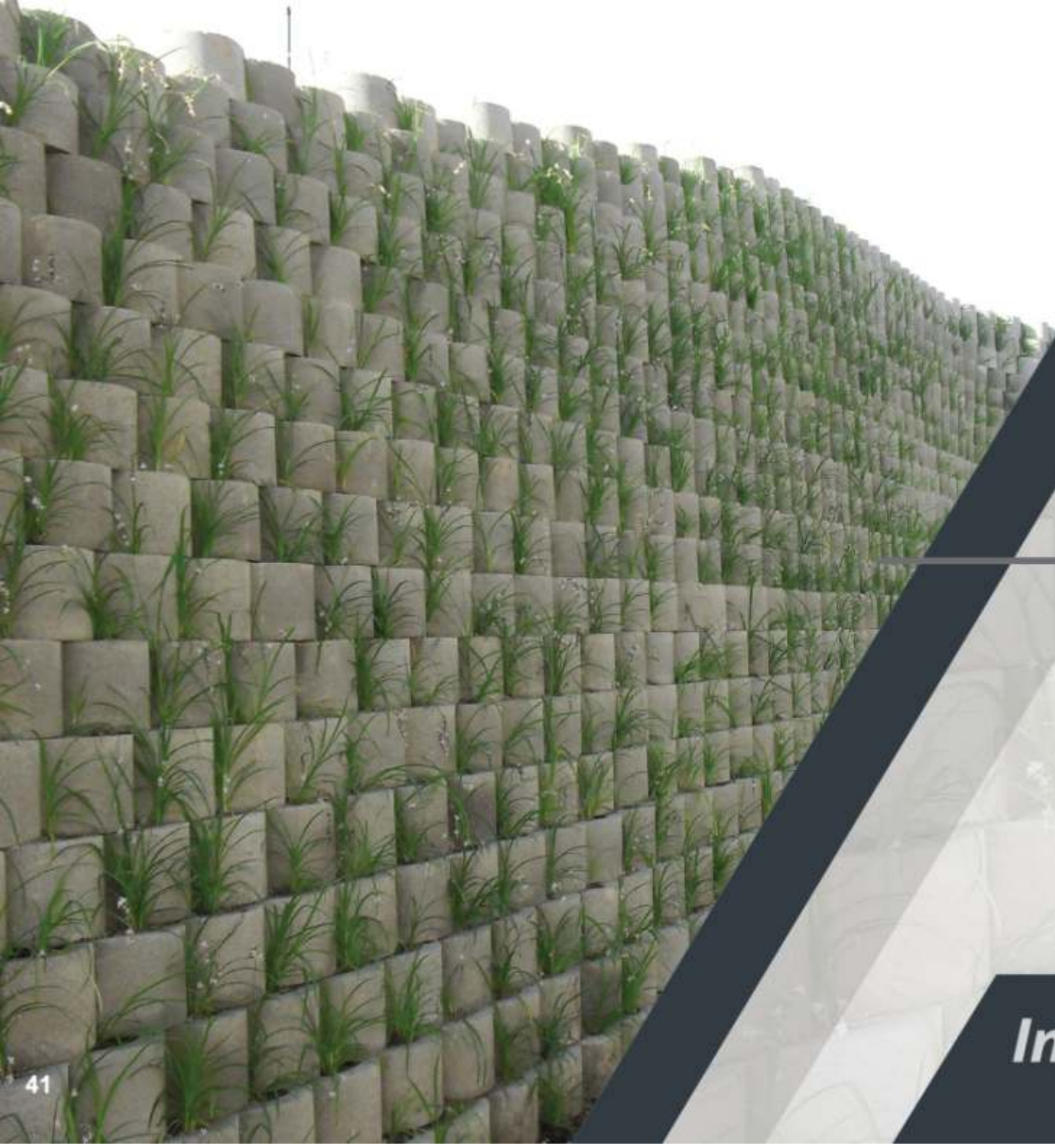
InfraBlok™ 350 Split face only . Available in Grey, Tan, Multi Blend and Sahara Sand.

Technical data	InfraBlok™ 350
Length	350
Width	280
Height	200
Blocks per m2	18
Av. mass of block (kg)	20
Volume by Infill	0,011
Mass of Constructed Wall	600



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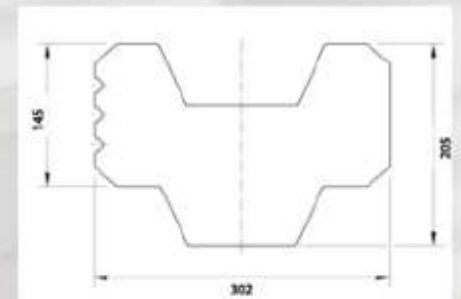
InfraBlok™ 425  
retaining block  
system is unique in its  
flexibility and aesthetic  
appeal.



**InfraBlok™** | 425



RidgeBlok™  
is a versatile,  
structurally  
sound and robust  
block.



RIDGEBLOK™



## PRODUCT FEATURES

### RIDGEBLOK<sup>®</sup> is versatile

- Dry stacked, concrete block system that can be aligned into tight, convex and concave curves.
- The spacing between can easily be narrowed to increase the unit weight of the wall and its effectiveness as a gravity structure. Alternatively, greater spacing between the blocks increases the plantable area for a more environmentally friendly end-product.
- The open spaces can be increased to provide a more open and permeable facing to prevent excess build-up of pore-water pressures behind the retaining wall.
- The solid concrete blocks are robust, resulting in fewer breakages during transport and construction activities.
- The compressive strength of the solid concrete RidgeBlok<sup>™</sup> allows for construction of higher walls compared to hollow concrete retaining blocks.

### RIDGEBLOK<sup>®</sup> is unique

- The RidgeBlok<sup>™</sup> facing is constructed at any angle between 70° and 90° to the horizontal without compromising any of its structural integrity. This character is seen as a major advantage over conventional, dry-stacked concrete

blocks used in retaining-wall structures.

- The architectural grooves on the one side of the enable the blocks to be packed in different visually pleasing patterns.

### RIDGEBLOK<sup>®</sup> is intergrated

- The deep-lip recess system, tongue and groove system, provides a positive clamping force between the RidgeBlok<sup>™</sup> and the facing geosynthetic reinforced backfill. This aspect is seen as a major advantage over the conventional concrete retaining block which relies solely on friction to prevent "pull-out" of the geosynthetic from the concrete block.

A base block is available for the foundation of a 75° or 85° wall.

Technical Data	RidgeBlok <sup>®</sup>
Length	270mm
Height of block	145mm
Width	302mm
Block per m2:	
• Closed face wall	± 26
• Open face wall	± 16
Minimum radius, convex or concave	2m
Mass of block	24kg

The photographs in this brochure do not necessarily reflect actual product colours.





**Infralok™ 150**  
erosion control  
system is unique in  
it's flexibility and  
aesthetic appeal.

***Infralok™ 150***



## PRODUCT FEATURES

- Infralok™ 150 is a light versatile concrete block which provides the ideal solution for homeowners and DIY enthusiasts wishing to create an erosion control system in their gardens.
- With the Infralok™ 150 construction is simple. Blocks can be rapidly laid without the need for foundations or mortar.
- Please note: If the area is subject to traffic, i.e. driveways, or significant water flow, the sub-base should be sufficiently prepared before bedding the blocks.
- The blocks can be laid in various configurations depending on the aesthetic requirement or the condition of the soil and vegetation of the area.



10 blocks per m²



4 blocks per m²



6-7 blocks per m²



5-6 blocks per m²



4 blocks per m²



6-7 blocks per m²

Technical Data	<i>Infralok™ 150</i>
Length	452
Width	320 - 188
Height	150
Av. mass of block (kg)	18.8 (kg)
Blocks per m2	4 - 10
Colours Available	Grey

The photographs in this brochure do not necessarily reflect actual product colours.





World-class concrete products for eco-friendly and sustainable development

Geo-Link® is a green product specifically designed to limit soil erosion and to create attractive landscaping features which blend in with local and indigenous vegetation. Based on sound engineering principals, Geo-Link® is easily and cost-effectively installed, requiring no additional cement or concrete - another green advantage. It is also robust and long-lasting, needs minimal maintenance and withstands the most adverse weather conditions

Geo-link®



## PRODUCT FEATURES

### Erosion control and water management

Comprising a flexible lining of hollow interlocking precast concrete cells, the broken surface created by the cells reduces water flow-speeds (hydrostatic pressures) and inhibits soil erosion in waterways and drainage channels, as well as in flood-prone ditches, spruets, riverbanks, estuaries and beach embankments.

### Attenuation ponds and reservoirs

Geo-Link® can be installed underwater and is used to line the banks and bottoms of attenuation ponds and reservoirs, which not only protects the soil but makes for easy maintenance and servicing.

### Protecting water pipes

It is also deployed to avoid soil erosion around flow-ramps at pipe inlets and outlets, preventing the loss of soil under the pipes.

### Reinforcing gravel roads

Geo-Link® is well-suited to reinforcing gravel roads and tracks on undulating and mountainous terrain where it provides excellent erosion control and better grip for all types of traffic, including heavy trucks, especially under slippery conditions.


Full technical brochure available for this product upon request



	GeoLink 180	GeoLink 140
Length x width x thickness(mm)	340 x 294 x 115	340 x 400 x 90
Length x width(mm)	309 x 294	309 x 400
Cells (p/m²)	11	8
Cell weight (ave.)	16,4	17,6
Weight (kg/m²)	180	140
Open area (%)	18	18
Material vol. to fill joints & voids (m³/m²)	0,022	0,017
Cable/rope	Galvanised steel wire/ synthetic rope	Galvanised steel wire/ synthetic rope
Bending radius	0,5 to 1,0m	0,5 to 1,0m

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Eco-Link®



## PRODUCT FEATURES

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Full technical brochure available for this product upon request



	EcoLink
Length x width x thickness(mm)	340 x 294 x 95
Length x width(mm)	309 x 294
Cells (p/m²)	11
Cell weight (ave.)	13,1
Individual weight (kg/m²)	140
Open area (%)	18
Material vol. to fill joints & voids (m³/m²)	0,022
Bending radius	0,5 to 1,0m



The photographs in this brochure do not necessarily reflect actual product colours.





Durable and maintenance-free, Landscape Products' embankment seating provides cost-effective seating solutions for major stadiums, schools, parks and public spaces.

## **EMBANKMENT SEATING SYSTEM**



## PRODUCT FEATURES

"Highly Innovative" is how the Fulton Award judges described our locally developed concrete seating system, widely used to provide cost-effective solutions for seating requirements from bus stops to schools and major stadiums.

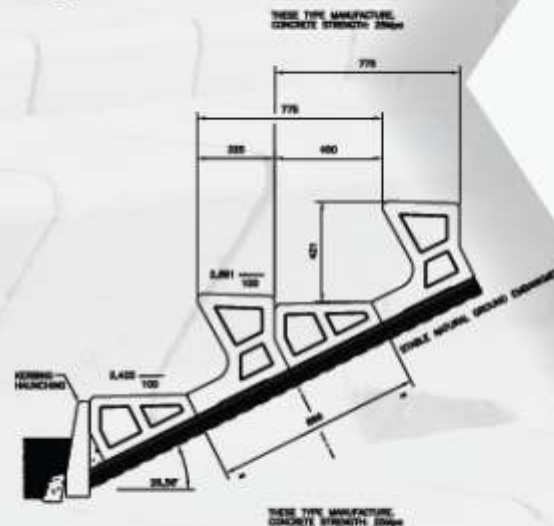
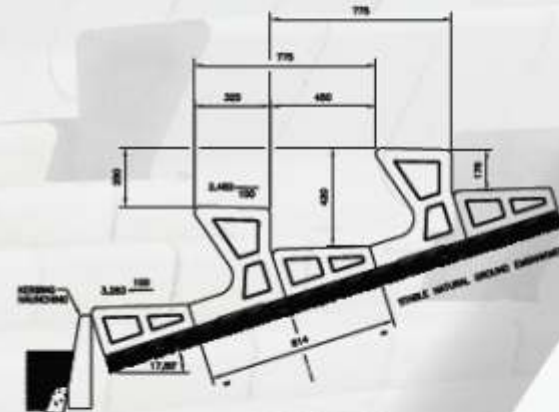
Features include:

- Only our embankment seating system is specially engineered and designed for quick and simple installation.
- The precast units are robust enough to weather the wear-and-tear of construction.
- Our embankment seating system is vandal-proof and maintenance-free.
- Seats come in standard grey but may be coloured for aesthetic appeal.
- The system is labour intensive in its construction and thus ideal for job creation in disadvantaged communities.

Our embankment seating system consists of a hollow seat block with a mass of about 45kg and a hollow aisle block with a mass of approximately 25kg. Two seat blocks and two aisle blocks form one seat with a recommended width of 450mm.

**Full technical brochure available for this product upon request**

Seat Type	Ratio	Angle	Measurement A	Measurement B
2	1:3, 105	17,85	814	775
4	1:2	26,56	866	775



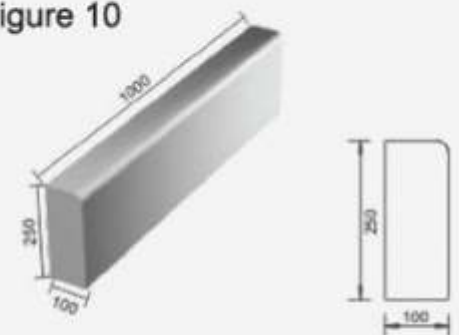
The photographs in this brochure do not necessarily reflect actual product colours.



This wide range of South Africa's most popular kerbs is manufactured to SABS standards and accurate tolerances. They are easy to install and are designed to withstand the harshest operating environments. Vibrated Kerbs give a tight tolerance on dimensions and texture fits in nicely with both tar and paved roads.

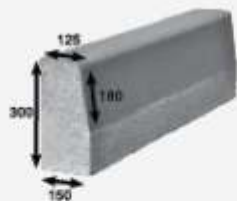
COMING SOON:

Figure 10



# Kerbs





**Figure 3**

Size: 330 x 300 x 150 mm

Kerb p/pack: 12

Kerb mass p/kg: 31,6

**Type: Barrier**

Size: 1 000 x 300 x 150 mm

Kerb p/pack: 18

Kerb mass p/kg: 101



**Type 8c**

Size: 330 x 300 x 200 mm

Kerb p/pack: 30

Kerb mass p/kg: 33

**Type: Mountable**

Size: 1 000 x 300 x 100 mm

Kerb p/pack: 16

Kerb mass p/kg: 99



**Figure 7**

Size: 330 x 280 x 180 mm

Kerb p/pack: 30

Kerb mass p/kg: 32

**Type: Semi-mountable**

Size: 1 000 x 280 x 180 mm

Kerb p/pack: 15

Kerb mass p/kg: 96



**Figure 12**

**Type: Garden Kerbs**

Size: 500 x 150 x 75 mm

Kerb p/pack: 88

Kerb mass p/kg: 12,3



The photographs in this brochure do not necessarily reflect actual product colours.



# AVENG INFRASET

Midrand / Centurion

Tel: 012 652 0000

GPS: 25°55'05.27"S  
28°07'19.58"E

