

TECHNICAL DATA SHEET



Paving BLOCKS

Precision-manufactured paving blocks available in a range of durable colours, engineered to fit tightly for a stable, aesthetically clean ground surface.



PAVING BLOCKS

Paving blocks, also known as cabro, are precast concrete units designed for various paving applications. These blocks provide a durable, aesthetically appealing, and versatile pavement solution for domestic and commercial use. Paving blocks are available in multiple shapes, sizes, and colors, offering flexibility in design. They are commonly used for Pathways, Parking areas, Domestic and commercial roads

Technical Specifications

Property	Specifications
Standard	KEBS KS 827-2003
Curing	28 days before use
Strength	Conforms to KEBS standards
Material Composition	High-quality concrete mix
Thickness Options	50mm, 60mm, 80mm
Surface Finish	Smooth or textured
Abrasion Resistance	Conforms to ASTM C936 Specifications (AV<30%), with AV of 5%

Quality Standards

Standard Specification Compliance

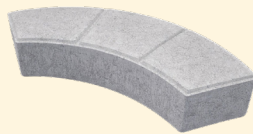
- KEBS Manufacturing Standard (KS 827-2003)
- Design Standard BS 7533-1:2001
- Installation Standard BS 7533-3:2005

Testing for Strength

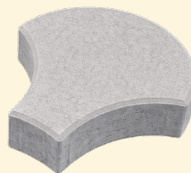
Compressive strength testing is carried out in accordance with industry standards, both internally, and with external accredited testing institutions to ensuring the paving blocks meet the required load-bearing and durability specifications.



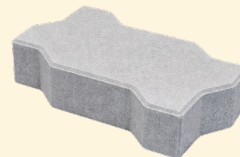
Hexagon



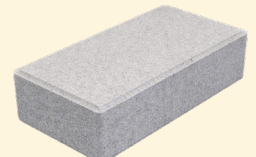
Pavia



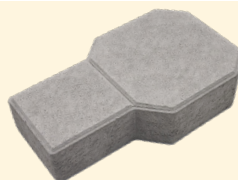
Shell



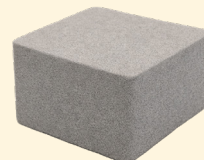
Uni Paving Block



Quad



Decor



77 Square



Behaton

Paving Blocks Categories and Applications

Grade	Normal Thickness (mm)	Compressive Strength (N/mm ²)	Application
Heavy Duty (H)	80 mm, 60 mm	49	Main roads, heavy industrial areas, Petrol Stations
Medium Duty (M)	60 mm	35	Estate roads, domestic driveways, parking areas
Light Duty (L)	50 mm	25	Domestic driveways, parking, sidewalks

Dimensions (mm) & Typical Unit Weights (Kg)

Paver Type	Product Name	Size (L x W), mm	Weight per Piece, Kg	Total Pieces per Pallet	Weight per Pallet, Kg
50mm Pavers 25 MPa	Quad	200 x 100	2.1	500	1000
	Uni	240 x 130	2.5	400	1000
60mm Pavers 35 MPa	Quad	200 x 100	2.4	500	1300
	Uni	240 x 130	3.1	400	1300
	Decor	225 x 135	3.4	472	1560
	Hexagon	205 x 195	3.3	516	1560
	Shell	200 x 210	3.6	367	1300
	77Square	100 x 100	1.2	1000	1200
	Behaton	I-Shape	3.4	357	1285
60mm Pavers 49 MPa	Quad	200 x 100	2.5	500	1300
	Uni	240 x 130	3.3	400	1300
	Decor	225 x 135	3.4	456	1560
	Pavia	330 x 110	3.9	330	1300
80mm Pavers 49 MPa	Quad	200 x 100	3.3	500	1700
	Uni	240 x 130	4.2	400	1700

Note: Design Focus - The design emphasizes structural integrity, aesthetic appeal, and functional performance, ensuring the paving blocks are not only durable but also visually appealing and suitable for their intended use.

Handling & Storage

Handling, transport, and storage of paver blocks require attention to detail to maintain their integrity. Careful handling is necessary to prevent damage to edges and faces, ensuring both aesthetic value and functionality. Paver blocks should be stacked neatly on pallets for stability and securely wrapped to prevent shifting. When loading, forklifts must be used to ensure pallets are evenly distributed and balanced. Appropriate transport vehicles, such as flatbed trucks, should always be used, and pallets must be securely strapped during transit. Upon arrival at the site, forklifts should be used to unload the pallets and place them in easily accessible areas for installation. Throughout the entire process, pallets should be handled gently to avoid any damage.

Maintenance

To ensure the longevity and optimal performance of your paving blocks, regular maintenance is essential. Begin with regular cleaning by sweeping away debris and using a mild detergent for stains. For weed control, remove any weeds and apply herbicide if needed. Joint sand should be replenished periodically to maintain stability. Re-compaction is recommended to prevent shifting by compacting any loose areas. For stains, use degreasers to remove oil stains effectively. Finally, damaged or settled blocks should be promptly replaced to maintain the integrity of the pavement.

Limitations

- Not intended for major highways.
- Perfectly suited, but not limited to, city roads, bustling markets, commercial buildings, residential areas, cycle tracks, fuel stations, and pedestrian pathways. Versatile and adaptable to a variety of applications, ensuring both durability and aesthetic appeal.

Concrete Block Paving Installation Guide

Pre-Installation -

Inspect delivered materials and report any defects before installation. Sorting may be needed for uniform color and texture. Ensure proper PPE is worn throughout construction.

Pavement Design & Excavation -

Excavate to accommodate the sub-base, sand laying course, and blocks, ensuring the final surface is at least 150mm below the damp-proof course (DPC).

Edge Restraints -

Install robust edge restraints before the sub-base to prevent movement. On steep gradients (>1:20), consider intermediate restraints for stability.

Sub-Base Construction -

Use well-graded aggregate material (40mm ballast to dust). Place in compacted layers no thicker than 75mm. Ensure a minimum slope of 1.25% longitudinally and 2.5% crosswise for drainage.

Laying Course -

Use well-graded grit sand, maintaining uniform moisture. Target a 30mm compacted thickness, ensuring levels are formed in the sub-base, not the sand. Compact fully before placing paving units.

Laying Paving Units -

When laying paving blocks, maintain 2-5mm joints, ensuring straight alignment using string guides. The interlocking concrete block pavement system consists of small, durable concrete units, either rectangular or featuring interlocking teeth. These units are placed in a carefully planned pattern over a coarse bedding of sand, with joints filled with joint-filling sand and compacted to ensure proper interlock.

The system's strength relies on the interlocking mechanism, where each block is unable to move independently, providing structural stability without the need for continuous materials like concrete or asphalt. The design and installation focus on achieving robust interlocks such as basket weave, herringbone, and stretcher bond patterns. Always begin by laying full-sized blocks, cutting only when necessary, and avoid cutting units smaller than a quarter of their original size. For sloped areas, begin installation from the lowest point to maintain proper alignment and ease of work.

Compaction & Jointing -

Use a plate vibrator for compaction, ensuring joints are filled with dried sand before final compaction. Always ensure sand is present before vibrating to prevent edge damage.

Pattern & Cutting -

Use herringbone for high-traffic areas; stretcher bond suits light traffic. Avoid basket weave for vehicle areas. Cut with a diamond saw or guillotine, ensuring joints remain 2-5mm. Tight curves may require special units.

Weather Considerations -

Stop work if conditions risk paving integrity. Do not lay on saturated sand. Joint filling should be done in dry conditions and topped up as needed. Protect exposed materials from weather damage.

Colours

The paving blocks are available in a variety of colours including Grey, Black, Red, Beige and many other custom colours can be made on order.



Grey



Black



Red



Beige



Grey & Red Pavia



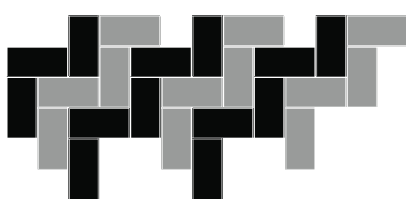
Grey, Red & Beige Hexagon

Health & Safety:

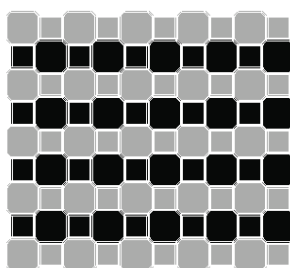
Guideline	Details
Manual Handling	Use proper lifting techniques and mechanical aids (trolleys, forklifts, block clamps) when moving pallets or bulk paving blocks to minimize risk of musculoskeletal injury.
PPE	Wear appropriate PPE including gloves, steel-toe safety footwear, eye protection, high-visibility clothing, and hearing protection when cutting.
Dust Control	Use a dust mask/respirator when cutting or working in dusty conditions. Employ suitable cutting equipment with guards and, where possible, water suppression to reduce airborne silica dust.
Pallet Stability & Safe Stacking	Place pallets on firm, level ground before removing strapping. Stack blocks safely and do not exceed recommended stacking heights to prevent shifting or collapse.
Block Integrity	Handle carefully to prevent chipping, cracking, or breakage that may create sharp edges or weaken the units.
Cutting Methods	Use wet cutting methods where possible to reduce silica dust exposure.
Safe Work Practices	Keep work areas clear of loose blocks and debris to reduce trip hazards. Handle blocks carefully during transport and installation to prevent chipping, cracking, or breakage. Use knee protection during prolonged laying activities

Statement of Responsibility

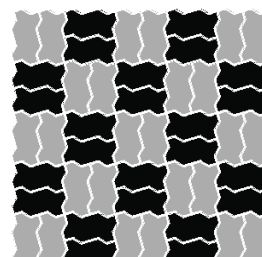
The technical details, recommendations, and other information contained in this datasheet are provided in good faith and reflect our best knowledge and experience at the time of publication. It is the user's responsibility to ensure that our paving blocks are used, handled, and installed correctly, and in accordance with relevant industry standards and best practices. All guidance provided is intended solely for the specified applications. Users should verify that the product is suitable for their specific project requirements and complies with all applicable system specifications and regulatory standards.



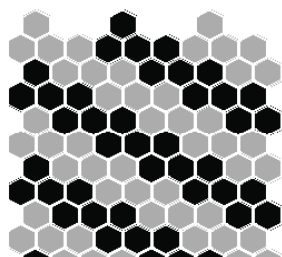
Quad paver (**Basket Weave**)



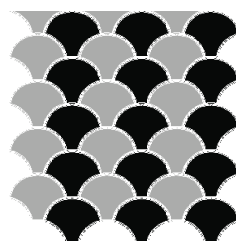
Decor paver (**Stretcher Bond**)



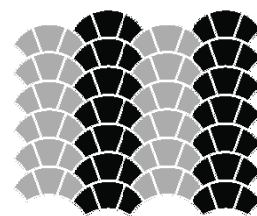
Uni paver (**Basket Weave**)



Hexagon paver (**Herringbone**)



Shell paver (**Stretcher Bond**)



Pavia paver (**Stretcher Bond**)

Off Airport North Rd, Embakasi || P.O. Box 46332 - 00100, Nairobi

📞 Enquiries: 0722 205 133 📞 Sales: 0709 327 000 📞 WhatsApp: 0757 100 900 📧 jenga@kbcl.co.ke 🌐 www.kbcl.co.ke