

ADVICE BUILT CARE

VIBRO COMPACTION PLAIN TOP PAVER BLOCKS

PRODUCT SPECIFICATION

Vibro-compacted plain top paver blocks are precast concrete paving units manufactured using a dry-mix concrete process, high-frequency vibration and hydraulic pressure in precision steel moulds. The process provides uniform density, dimensional accuracy and high compressive strength for applications ranging from pedestrian to heavy-traffic environments.

AVAILABLE THICKNESS & GRADES

Thickness	Grade	Compressive Strength	Typical Application
50 mm	M30	30 MPa	Gardens, patios, landscapes
60 mm	M35	35 MPa	Pedestrian plazas, car parks, residential driveways
80 mm	M40	40 MPa	City streets, market roads, utility cuts
100 mm	M50	50 MPa	Bus terminals, industrial complexes, service stations
120 mm	M55	55 MPa	Container terminals, ports, airports, mine access

TECHNICAL PERFORMANCE

Property	Specification
Compressive Strength	30–55 MPa, grade-dependent
Flexural Strength	> 4.5 MPa
Water Absorption	< 5% by weight
Density	2,200–2,400 kg/m³
Surface Abrasion Loss	< 1.2 mm
Surface	Textured plain surface with slip-resistant characteristics
Freeze-Thaw Resistance	Suitable for extreme climates

STANDARD DIMENSIONS

Parameter	Standard / Typical
Length	200 mm
Width	100–165 mm
Thickness	50 / 60 / 80 / 100 / 120 mm
Length Tolerance	±2 mm
Width Tolerance	±2 mm
Thickness Tolerance	±3 mm
Aspect Ratio	L/T ≤ 4.0
Arris / Chamfer	3–5 mm, optional

SURFACE & FINISH

- Smooth to lightly textured plain top surface
- Slip-resistant surface characteristics
- Uniform, blemish-free finish
- Square edge or 3–5 mm chamfered edge
- Natural grey or integral pigments as specified
- Batch-to-batch colour variation < 5%

APPLICATIONS

- Gardens, patios and landscapes

- Pedestrian areas, plazas and commercial spaces
- Residential driveways and car parks
- City streets, market roads and low-volume roads
- Industrial flooring, factory floors and service stations
- Bus terminals, ports, airports and other heavy-duty areas

MANUFACTURING PROCESS

Dry-Mix Concrete → Precision Steel Moulds → High-Frequency Vibration → Hydraulic Compaction → Curing → Quality Inspection

QUALITY CONTROL

Check	Frequency
Visual Inspection	Every batch
Dimensional Check	Every batch
Compressive Strength	Every 500 blocks or weekly
Water Absorption	Monthly
Flexural Strength	Quarterly
Surface Abrasion	Quarterly

MATERIALS

OPC 33-grade minimum cement; PPC acceptable • Clean river sand or crushed stone sand • Crushed stone chips • Optional PPF fibres, water reducers and colour pigments • Natural grey or integral pigments as specified

STANDARD

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