Technical Specification of Precast Concrete Pavers (Paving Block)

Product : **Hexagon Paver (226x200x50)mm**
Hexagon Paver (226x200x60)mm
Hexagon Paver (226x200x70)mm
Hexagon Paver (226x200x80)mm

S.No.	Description	Asian Concreto				Standard References *Nepal Standard 593:2077*
1	**Standard Dimension of Specimen**					
	Length mm	226	226	226	226	As per Actual
	Width mm	200	200	200	200	As per Actual
	Thickness mm	50	60	70	80	As per Actual
	Aspect Ratio mm	4.52	3.77	3.22	2.82	Maximum 4
	Arris/ Chamfer mm	7.2	7.2	7.2	7.2	Min 5, Max 7
	Squareness mm	Nil	Nil	Nil	Nil	Nil
	Thickness of Wearing Layer mm	> 6	> 6	> 6	> 6	Minimum 6mm
2	**Dimension Tolerance**					
	Length mm	± 1mm	± 1mm	± 1mm	± 1mm	± 2mm
	Width mm	± 1mm	± 1mm	± 1mm	± 1mm	± 2mm
	Thickness mm	± 1mm	± 1mm	± 1mm	± 1mm	± 1mm
	Squareness mm	± 0mm	± 0mm	± 0mm	± 0mm	± 2mm
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm	(+) 2mm	(+) 2mm	(+) 2mm
	Chamfer mm	(+) 0.2mm	(+) 0.2mm	(+) 0.2mm	(+) 0.2mm	± 1mm
3	**Surface Area of Paver** cm^2	336	336	336	336	As per Actual
4	**Volume of Specimen** cm^3	1680	2016	2352	2688	As per Actual
5	**Minimum Compressive Strength N/mm^2** 28 Days	≥ 35	≥ 40	≥ 45	≥ 50	(50mm) = $30N/mm^2$ (60mm) = $35N/mm^2$ (70mm) = $40N/mm^2$ (80mm) = $40N/mm^2$
6	**Water Absorption** (%)	< 6%	< 6%	< 6%	< 6%	Maximum 6%
7	**Dry Density** kg/m^3	2250	2250	2250	2250	2250 kg/m^3, ± 50 kg/m^3
8	**Abrasion Resistance** mm	< 2mm	< 2mm	< 2mm	< 2mm	Maximum 3mm
9	**Face Layer Pigment (Color)**	Synthetic or Natural	Synthetic or Natural	Synthetic or Natural	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)
10	**Lable and Marking**					
	Concrete paver block package shall be marked with the following information suitably:					
	a) Identification of the manufacturer,					
	b) Grade of paver blocks, and					
	c) Date of manufacture.					
	Note: The product should be adequately packed to identify above and also ensure products from manufacturer facility to the buyer facility during loading transport, unloading do not suffer any physical damage including chipping, cracking, deform or any other damage from actual product specifications					