## **Technical Specification of Concrete Flooring Tiles**

### Product: Arena Tile (400x400x40)mm

C N -	Bt-st	A C	Standard References				
S.No.	Description	Asian Concreto	NS 392, IS 1237, ASTM C 1731, BS 5385				
	Dimension of Specimen						
	Length mm	400	As per Actual				
	Width mm	400	As per Actual				
	Thickness mm	40	As per Actual				
1	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Flatness mm	Nil	1mm				
	Straightness	Nil	1% of Length				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 1mm				
•	Width mm	± 1mm	± 1mm				
2	Thickness mm	mm ± 1mm	± 5mm				
	Arris/ Chamfer mm	(+) 0.2mm	± 1mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
-	Surface Area of Tile	1000	As you Astural				
3	cm <sup>2</sup>	1600	As per Actual				
4	Volume of Specimen	C400	As nor Actual				
4	cm <sup>3</sup>	6400	As per Actual				
5	Minimum Compressive Strength N/mm <sup>2</sup>	>20	25 N/mm²				
3	28 Days	≥30	25 N/mm²				
6	Water Absorption	< 6%	Maximum 10%				
0	(%)	10%	Wiaximum 10%				
7	Dry Density	2250	2250 kg/m³, ± 50 kg/m³				
,	kg/m³	2230	2250 kg/III , ± 50 kg/III				
8	Abrasion Resistance	< 2mm	Maximum 2.5mm				
•	mm	2111111	Wiaximum 2.5mm				
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)				
	Lable and Marking		,				
	Concrete tile package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	b) Grade of concrete tiles, and						
10	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						





## <u>Technical Specification of Concrete Bricks</u>

Product : Asian Brick (230x110x55)mm Asian Brick (230x110x70)mm

C No.	Description	Asias C		Standard References				
S.No.	Description	Asian C	oncreto	IS 12894, IS2185, IS 1077				
	Dimension of Specimen							
4	Length mm	230	230	230				
1	Width mm	110	110	110				
	Thickness mm	55	70	As per Actual				
	Dimension Tolerance							
2	Length mm	± 1mm	± 1mm	± 3mm				
2	Width mm	m ± 1mm	± 1mm	± 1.5mm				
	Thickness mm		± 2mm	± 3mm				
3	Surface Area of Brick	253	253	As per Actual				
<b>.</b>	cm <sup>2</sup>	255	233	As per Actual				
4	Volume of Specimen	1391.5	1771	As per Actual				
	cm <sup>3</sup>	1391.3	1//1	As per Actual				
5	Minimum Compressive Strength N/mm²	≥ 10	≥ 10	10 N/mm²				
	28 Days			10 N/IIIIII				
6	Water Absorption	< 10%	< 10%	Maximum 20%				
•	(%)	10%		WidXiIIIuIII 20%				
7	Dry Density	1800	1800	1800 kg/m³				
	kg/m³	1800	1000	1800 kg/III				
	Lable and Marking							
	Concrete brick package shall be marked with the following information suitably:							
	a) Identification of the manufacturer,							
	b) Grade of bricks, and							
8	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 physi damage including chipping, cracking, deform or any other damage from actual product specifications							





### Product: Cobble Paver (100x100x60)mm

S.No.	Description	Asian Concreto	Standard References				
5.NO.	Description	Asian Concreto	Nepal Standard 593:2077				
	Dimension of Specimen	8	**************************************				
	Length mm	100	As per Actual				
	Width mm	100	As per Actual				
1	Thickness mm	60	As per Actual				
1	Aspect Ratio mm	1.67	Maximum 4				
	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Squareness mm	Nil	Nil				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 2mm				
	Width mm	± 1mm	± 2mm				
2	Thickness mm	± 1mm	± 1mm				
	Squareness mm	± 0mm	± 2mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
	Chamfer mm	(+) 0.2mm	± 1mm				
_	Surface Area of Paver	100	As per Actual				
3	cm <sup>2</sup>	100					
4	Volume of Specimen	600	As non Astual				
-4	cm <sup>3</sup>	000	As per Actual				
5	Minimum Compressive Strength N/mm <sup>2</sup>	≥ 35	35 N/mm²				
	28 Days	2 33	33 W/IIIII				
6	Water Absorption	< 6%	Maximum 6%				
	(%)	\ 070	Wiaximum 070				
7	Dry Density	2250	2250 kg/m³, ± 50 kg/m³				
	kg/m³	2230	2230 kg/III , ± 30 kg/III				
8	Abrasion Resistance	< 2mm	Maximum 3mm				
•	mm	\ ZIIIIII	IVIAXIIIIUIII SIIIIII				
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)				
	Lable and Marking	1					
	Concrete paver block package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
	b) Grade of paver blocks, and						
10	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						







# <u>Technical Specification of Concrete Flooring Tiles</u>

Product: Mix Fusion Tile (1200x800x40)mm Per Set

S.No.	Description	Asian Concreto	Standard References			
5.NO.	Description	Asian Concreto	NS 392, IS 1237, ASTM C 1731, BS 5385			
	Dimension of Specimen		,			
	Length mm	1200	As per Actual			
	Width mm	800	As per Actual			
1	Thickness mm	40	As per Actual			
1	Arris/ Chamfer mm	7.2	Min 5, Max 7			
	Flatness mm	Nil	1mm			
	Straightness	Nil	1% of Length			
	Thickness of Wearing Layer mm	> 6	Minimum 6mm			
	Dimension Tolerance					
	Length mm	± 1mm	± 1mm			
•	Width mm	± 1mm	± 1mm			
2	Thickness mm	± 1mm	± 5mm			
	Arris/ Chamfer mm	(+) 0.2mm	± 1mm			
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm			
	Surface Area of Tile	0500				
3	cm <sup>2</sup>	9600	As per Actual			
	Volume of Specimen	20400	An in our Annual			
4	cm <sup>3</sup>	38400	As per Actual			
-	Minimum Compressive Strength N/mm <sup>2</sup>	720	25 N/m m²			
5	28 Days	≥ 30	25 N/mm²			
•	Water Absorption	1.50/	Mayimum 100/			
6	(%)	< 6%	Maximum 10%			
_	Dry Density	2250	2250 1-7-3 1 50 1-7-3			
7	kg/m³	2250	2250 kg/m³, ± 50 kg/m³			
	Abrasion Resistance	4.2	Maniputa 2 France			
8	mm	< 2mm	Maximum 2.5mm			
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)			
	Lable and Marking	•	•			
	Concrete tile package shall be marked with	the following informati	on suitably:			
	a) Identification of the manufacturer,					
4.5	b) Grade of concrete tiles, and					
10	c) Date of manufacture.					
	Note: The product should be adequately pa	acked to identify above	and also ensure products from			
	manufacturer facility to the buyer facility d damage including chipping, cracking, defor	uring loading transport,	unloading do not suffer any physical			





#### Product: Grass Paver (600x4000x80)mm

C N -	Baradatian.	A-i G	Standard References				
S.No.	Description	Asian Concreto	Nepal Standard 593:2077				
	Dimension of Specimen	<u>.</u>					
	Length mm	600	As per Actual				
	Width mm	400	As per Actual				
1	Thickness mm	80	As per Actual				
1	Aspect Ratio mm	Not Defined	Maximum 4				
	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Squareness mm	Nil	Nil				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 2mm	± 2mm				
	Width mm	± 2mm	± 2mm				
2	Thickness mm	± 1mm	± 1mm				
	Squareness mm	± 0mm	± 2mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
	Chamfer mm	(+) 0.2mm	± 1mm				
2	Surface Area of Paver	2400	A command A charact				
3	cm <sup>2</sup>	2400	As per Actual				
	Volume of Specimen	40200	A A				
4	cm <sup>3</sup>	19200	As per Actual				
5	Minimum Compressive Strength N/mm <sup>2</sup>	- 40	40 N/mm²				
3	28 Days	≥ 40	40 N/mm²				
6	Water Absorption	< 6%	Maximum 6%				
ь	(%)	< 0%	Maximum 6%				
7	Dry Density	2250	2250 kg/m³ ± 50 kg/m³				
,	kg/m³	2250	2250 kg/m³, ± 50 kg/m³				
8	Abrasion Resistance	4 Jmm	Maximum 2mm				
•	mm	< 2mm	Maximum 3mm				
			Synthetic or Nautral (Zinc				
9	Face Layer Pigment (Color)	Synthetic or Natural	compound or organic dyes or Lead				
			pigments shall not be used)				
	Lable and Marking						
	Concrete paver block package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	b) Grade of paver blocks, and						
10	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						







Product: Hexagon Paver (226x200x50)mm

Hexagon Paver (226x200x60)mm Hexagon Paver (226x200x70)mm Hexagon Paver (226x200x80)mm

						Standard References	
S.No.	Description		Asian C	oncreto		Nepal Standard 593:2077	
		Standard	d Dimension	of Specime	en		
	Length mm	226	226	226	226	As per Actual	
	Width mm	200	200	200	200	As per Actual	
4	Thickness mm	50	60	70	80	As per Actual	
1	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	
		Di	mension To	lerance			
	Length mm	± 1mm	± 1mm	± 1mm	± 1mm	± 2mm	
	Width mm	± 1mm	± 1mm	± 1mm	± 1mm	± 2mm	
2	Thickness mm	± 1mm	± 1mm	± 1mm	±1mm	± 1mm	
	Squareness mm	± 0mm	± 0mm	± 0mm	± 0mm	± 2mm	
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm		(+) 2mm	(+) 2mm	
	Chamfer mm	(+) 0.2mm	(+) 0.2mm	(+) 0.2mm	(+) 0.2mm	± 1mm	
2	Surface Area of Paver	226	336	226	226	As you Astual	
3	cm²	336	330	336	336	As per Actual	
4	Volume of Specimen	1680	2016	2352	2688	As per Actual	
4	cm <sup>3</sup>	1080	2016	2552~	2000	As per Actual	
	Minimum Compressive Strength N/mm <sup>2</sup>				≥ 50	$(50mm) = 30N/mm^2$	
5			10	≥ 45		$(60 \text{mm}) = 35 \text{N/mm}^2$	
3	28 Days	≥ 35	≥40			$(70 \text{mm}) = 40 \text{N/mm}^2$	
			· ·			$(80 \text{mm}) = 40 \text{N/mm}^2$	
6	Water Absorption	< 6%	- C0/	- 60/	< 6%	Maximum 6%	
6	(%)	< 6%	< 6%	< 6%	< 6%	Maximum 6%	
7	Dry Density	2250	2250	2250	2250	2250 kg/m³ ± 50 kg/m³	
,	kg/m³	2250	2230	2250	2250	2250 kg/m³, ± 50 kg/m³	
8	Abrasion Resistance	< 2mm	< 2mm	< 2mm	< 2mm	Maximum 3mm	
•	mm	\ Z111111	\ ZIIIIII	<b>\ 2111111</b>	<b>\ 211111</b>	Waxiiiuiii 3iiiiii	
		Synthetic	Synthetic	C 41 41-	Synthetic	Synthetic or Nautral (Zinc	
9	Face Layer Pigment (Color)	or	,	Synthetic or Natural	or	compound or organic dyes or Lead	
		Natural	Or Natural	Or Maturar	Natural	pigments shall not be used)	
	Lable and Marking						
	Concrete paver block package shall be mark	ed with the	following ir	formation s	uitably:		
	a) Identification of the manufacturer,						
10	b) Grade of paver blocks, and						
10	c) Date of manufacture.						
	Note: The product should be adequately pa	cked to ider	ntify above a	nd also ens	ure product	s from manufacturer facility to the	
	buyer facility during loading transport, unlo		t suffer any	physical da	mage includ	ing chipping, cracking, deform or	
	any other damage from actual product spec	ifications					







### <u>Technical Specification of Concrete Masonry Unit (Hollow Block)</u>

Product: Hollow Block (390x100x190)mm Hollow Block (390x150x190)mm Hollow Block (390x200x190)mm

S.No.	Description	Δ.	sian Concre	to	Standard References			
5.110.	Description		nan concre		IS 2185(Part 1), NS 119			
	Dimension of Specimen							
1	Length mm	390	390	390	As per Actual			
1	Width mm	100	150	200	As per Actual			
	Height mm	190	190	190	As per Actual			
	Dimension Tolerance	3	00	10 06				
2	Length mm	± 1mm	± 1mm	± 1mm	± 5mm			
2	Width mm	± 1mm	± 1mm	± 1mm	± 3mm			
	Height mm	± 1mm		± 2mm	± 3mm			
3	Surface Area	390	585	780	As non Astual			
3	cm <sup>2</sup>	390	363	/80	As per Actual			
4	Volume of Specimen	7410	11115	14820	As non Astual			
4	cm <sup>3</sup>	7410	11115	14820	As per Actual			
_	Minimum Compressive Strength N/mm <sup>2</sup>	>75	27.5	>75	Minimum FNI/mm2			
5	28 Days	≥ 7.5	≥ 7.5	≥ 7.5	Minimum 5N/mm <sup>2</sup>			
6	Thickness of Face Shell	28	28	28	(390x100x190)mm = 25mm Min (390x150x190)mm = 25mm Min			
	mm				(390x200x190)mm = 30mm Min			
7	Thickness of Web	28	28	28	(390x100x190)mm = 25mm Min (390x150x190)mm = 25mm Min			
e e	mm				(390x200x190)mm = 25mm Min			
8	Water Absorption (%)	< 8%	< 8%	< 8%	Maximum 10%			
9	Drying Shrinkage	< 0.04	< 0.04	< 0.04	Maximum 0.04%			
	(%)	10.04	10.04	10.04	Widalitiditi 0.0470			
10	Moisture Movement (%)	< 0.03	< 0.03	< 0.03	Maximum 0.03%			
11	Dry Density kg/m³	1600	1600	1600	1600 kg/m³			
	Lable and Marking				<u></u>			
		ked with the	following i	nformation	suitably:			
	Concrete hollow block package shall be marked with the following information suitably:  a) Identification of the manufacturer,							
	b) Grade of hollow blocks, and							
12	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							





### Product: Interlock Paver (200x200x60)mm

C N	B	Anton Committee	Standard References				
S.No.	Description	Asian Concreto	Nepal Standard 593:2077				
	Dimension of Specimen						
	Length mm	200	As per Actual				
	Width mm	200	As per Actual				
1	Thickness mm	60	As per Actual				
	Aspect Ratio mm	3.33	Maximum 4				
	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Squareness mm	Nil	Nil				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 2mm				
	Width mm	± 1mm	± 2mm				
2	Thickness mm	± 1mm	± 1mm				
	Squareness mm	± 0mm	± 2mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
	Chamfer mm	(+) 0.2mm	± 1mm				
_	Surface Area of Paver	275					
3	cm <sup>2</sup>	375	As per Actual				
	Volume of Specimen	2250	A				
4	cm <sup>3</sup>	2250	As per Actual				
-	Minimum Compressive Strength N/mm <sup>2</sup>	. 10	2F N/mm 2				
5	28 Days	≥ 40	35 N/mm²				
6	Water Absorption	- F9/	Maximum 69/				
6	(%)	< 6%	Maximum 6%				
-	Dry Density	2250	2250 kg/m³ + 50 kg/m³				
7	kg/m³	2250	2250 kg/m³, ± 50 kg/m³				
	Abrasion Resistance	4.3	Maximum 3mm				
8	mm	< 2mm	Maximum 3mm				
			Synthetic or Nautral (Zinc				
9	Face Layer Pigment (Color)	Synthetic or Natural	compound or organic dyes or Lead				
			pigments shall not be used)				
	Lable and Marking						
	Concrete paver block package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	b) Grade of paver blocks, and						
10	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						







## **Technical Specification of Concrete Flooring Tiles**

### Product: Italia Tile (400x400x40)mm

S.No.	Description	Asian Concreto	Standard References				
5.NO.	Description	Asian Concreto	NS 392, IS 1237, ASTM C 1731, BS 5385				
	Dimension of Specimen						
	Length mm	400	As per Actual				
	Width mm	400	As per Actual				
1	Thickness mm	40	As per Actual				
1	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Flatness mm	Nil	1mm				
	Straightness	Nil	1% of Length				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 1mm				
2	Width mm	± 1mm	± 1mm				
2	Thickness mm	± 1mm	± 5mm				
	Arris/ Chamfer mm	(+) 0.2mm	± 1mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
2	Surface Area of Tile	1000	A A				
3	cm²	1600	As per Actual				
4	Volume of Specimen	6400	As nor Astual				
4	cm <sup>3</sup>	0400	As per Actual				
_	Minimum Compressive Strength N/mm <sup>2</sup>	≥30	25 N/mm²				
<u> </u>	28 Days	230	25 14/111111				
5 6	Water Absorption	< 6%	Maximum 10%				
	(%)	1078	IVIAXIIIIUIII 10%				
7	Dry Density	2250	2250 kg/m <sup>3</sup> + 50 kg/m <sup>3</sup>				
,	kg/m³	2230	2250 kg/m³, ± 50 kg/m³				
8	Abrasion Resistance	< 2mm	Maximum 2.5mm				
	mm	\ ZIIIII	iviaximum 2.5mm				
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound o organic dyes or Lead pigments shall no be used)				
	Lable and Marking	•					
	Concrete tile package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	b) Grade of concrete tiles, and						
10	c) Date of manufacture.						
	manufacturer facility to the buyer facility dur	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					





#### <u>Technical Specification of Precast Concrete Kerbs</u>

Product: Bullnose (300x200x350)mm

Half Battred (300x200x350)mm Half Battred (300x165x325)mm Half Battred (250x200x380)mm

S.No.	Description		Asian C	oncreto		Standard References		
J.140.	Description		Asiair C	oncicto		Nepal Standard 594:2077		
1	Dimension of Specimen	Ď.						
	Length mm	300	300	300	250	Maximum 1000		
	Width mm	200	200	165	200	As per Actual		
	Height mm	350	350	325	380	As per Actual		
	Thickness of Wearing Layer mm	> 8	> 8	>8	> 8	4 to 12.5		
2	Dimension Tolerance							
	Length mm	± 1mm	± 1mm	± 1mm	± 1mm	± 3mm		
	Width mm	± 1mm	± 1mm	± 1mm	± 1mm	± 1.5mm		
	Height mm	± 1mm	± 1mm	± 1mm	± 1mm	± 3mm		
3	Area of Kerbstone	600	600	600	600	405	500	A A - + I
	cm <sup>2</sup>	600	600	495	500	As per Actual		
4	Volume of Specimen	21000	21000	1608.7	10000	As were Astro-1		
	cm <sup>3</sup>			1608.7	19000	As per Actual		
5	Minimum Compressive Strength N/mm <sup>2</sup>	≥ 20	> 20	* 20	> 20	Minimum 20 N/mm²		
	28 Days		≥ 20	≥ 20	≥ 20	Minimum 20 N/mm		
6	Water Absorption	< 6%	< 6%	< 6%	< 6%	Maximum 8%		
	(%)	< 0%	2 0%	< 6%	< 0%	IVIAXIITIUITI 8%		
7	Dry Density	2250	2250	2250	2250	2250 kg/m³, ± 50 kg/m³		
	kg/m³	2230	2250	2230	2250	2250 kg/III*, ± 50 kg/III*		
8	Lable and Marking				138			
	Concrete kerbstone package shall be marked with the following information suitably:							
	a) Identification of the manufacturer,							
	b) Grade of kerbstones, and							
	c) Date of manufacture.							
	Note: The product should be adequately packed to identify above and also ensure products from manufacturer facility to buyer facility during loading transport, unloading do not suffer any physical damage including chipping, cracking, deform cany other damage from actual product specifications							







## **Technical Specification of Concrete Flooring Tiles**

### Product: Matrix Tile (400x400x40)mm

S.No.	Description	Asian Concreto	Standard References				
5.NO.	Description	Asian Concreto	NS 392, IS 1237, ASTM C 1731, BS 5385				
	Dimension of Specimen						
	Length mm	400	As per Actual				
1	Width mm	400	As per Actual				
	Thickness mm	40	As per Actual				
	Arris/ Chamfer mm	7.2	Min 5, Max 7				
	Flatness mm	Nil	1mm				
	Straightness	Nil	1% of Length				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 1mm				
•	Width mm	± 1mm	± 1mm				
2	Thickness mm	± 1mm	± 5mm				
	Arris/ Chamfer mm	(+) 0.2mm	± 1mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
-	Surface Area of Tile	1500	As you Astroph				
3	cm²	1600	As per Actual				
	Volume of Specimen	C400	As were Assert				
4	cm <sup>3</sup>	6400	As per Actual				
5	Minimum Compressive Strength N/mm <sup>2</sup>	> 20	25 N/mm²				
3	28 Days	≥30	23 19/111111				
6	Water Absorption	< 6%	Maximum 10%				
Ü	(%)	10%	Wiaxiiiluiii 10%				
7	Dry Density	2250	2250 kg/m³, ± 50 kg/m³				
,	kg/m³	2230	2250 kg/III-, ± 50 kg/III-				
8	Abrasion Resistance	< 2mm	Maximum 2.5mm				
•	mm	\ ZIIIII	Widximum 2.5mm				
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)				
	Lable and Marking						
	Concrete tile package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
4.0	b) Grade of concrete tiles, and						
10	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						





### Product : Nostalgic Paver (1157x944x60)mm Per Set

S.No.	Description	Asian Concrete	Standard References				
5.NO.	Description	Asian Concreto	Nepal Standard 593:2077				
	Dimension of Specimen						
	Length mm	1157	As per Actual				
	Width mm	944	As per Actual				
	Thickness mm	60	As per Actual				
1	Aspect Ratio mm	Not Defined	Maximum 4				
	Arris/ Chamfer mm	Rounded	Min 5, Max 7				
	Squareness mm	Nil	Nil				
	Thickness of Wearing Layer mm	> 6	Minimum 6mm				
	Dimension Tolerance						
	Length mm	± 1mm	± 2mm				
	Width mm	± 1mm	± 2mm				
2	Thickness mm	± 1mm	± 1mm				
	Squareness mm	± 0mm	± 2mm				
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm				
	Chamfer mm	± 0mm	± 1mm				
2	Surface Area of Paver						
3	cm <sup>2</sup>	10922	As per Actual				
	Volume of Specimen	44140					
4	cm <sup>3</sup>	65532	As per Actual				
5	Minimum Compressive Strength N/mm <sup>2</sup>	> 25	25 N/mm²				
5	28 Days	≥ 35	35 N/mm²				
6	Water Absorption	< 6%	Maximum 6%				
0	(%)	V 070	Wiaximum 6%				
7	Dry Density	2250	2250 kg/m³ ± 50 kg/m³				
,	kg/m³	2250	2250 kg/m³, ± 50 kg/m³				
	Abrasion Resistance	. 2	Marrian uma 2mana				
8	mm	< 2mm	Maximum 3mm				
			Synthetic or Nautral (Zinc				
9	Face Layer Pigment (Color)	Synthetic or Natural	compound or organic dyes or Lead				
			pigments shall not be used)				
	Lable and Marking						
	Concrete paver block package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	b) Grade of paver blocks, and						
10	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						







Product: Rectangular Paver (200x100x60)mm Rectangular Paver (200x100x100)mm

C No	Description Asian Concreto			Standard References		
S.No.				Nepal Standard 593:2077		
	Dimension of Specimen					
1	Length mm	200	200	As per Actual		
	Width mm	100	100	As per Actual		
	Thickness mm	60	100	As per Actual		
	Aspect Ratio mm	3.33	2.00	Maximum 4		
	Arris/ Chamfer mm	7.2	7.2	Min 5, Max 7		
	Squareness mm	Nil	Nil	Nil		
	Thickness of Wearing Layer mm	> 6	> 6	Minimum 6mm		
	Dimension Tolerance			William Ollini		
	Differision folerance		_	60mm Thickness = ± 2mm		
	Length mm	± 1mm	± 1mm	100mm Thickness = ± 3mm		
				60mm Thickness = ± 2mm		
	Width mm	± 1mm	± 1mm	100mm Thickness = ± 3mm		
2				60mm Thickness = ± 1mm		
	Thickness mm	± 1mm	± 1.5mm	100mm Thickness = ± 1.5mm		
	-			60mm Thickness = ± 2mm		
	Squareness mm ±	± 0mm	± 0mm	100mm Thickness = ± 3mm		
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm	(+) 2mm		
	Chamfer mm	(+) 0.2mm	(+) 0.2mm	± 1mm		
3	Surface Area of Paver	200	300	As non Astual		
3	cm <sup>2</sup>	200	200	As per Actual		
4	Volume of Specimen	1200	2000	As per Actual		
	cm <sup>3</sup>	1200	2000	As per Actual		
5	Minimum Compressive Strength N/mm <sup>2</sup>	≥ 40	≥ 50	(60mm) Thickness = 35 N/mm <sup>2</sup>		
	28 Days	_ 40	= 50	(100mm) Thickness = 50 N/mm <sup>2</sup>		
6	Water Absorption	< 6%	< 6%	Maximum 6%		
	(%)					
7	Dry Density kg/m³	2250	2250	2250 kg/m³, ± 50 kg/m³		
	Abrasion Resistance					
8	mm	< 2mm	< 3mm	Maximum 3mm		
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)		
	Lable and Marking					
	Concrete paver block package shall be marked with the following information suitably:					
	a) Identification of the manufacturer,					
10	b) Grade of paver blocks, and					
	c) Date of manufacture.	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 a other damage from actual product specifications					







#### Product: Romba 3D Paver (340x197x60)mm

S.No.	Description	Asian Concreto	Standard References Nepal Standard 593:2077			
5.NO.	Description	Asian Concreto				
	Dimension of Specimen					
	Length mm	340	As per Actual			
	Width mm	197	As per Actual			
	Thickness mm	60	As per Actual			
1	Aspect Ratio mm	3.33	Maximum 4			
	Arris/ Chamfer mm	7.2	Min 5, Max 7			
	Squareness mm	Nil	Nil			
	Thickness of Wearing Layer mm	> 6	Minimum 6mm			
	Dimension Tolerance					
	Length mm	± 1mm	± 2mm			
	Width mm	± 1mm	± 2mm			
2	Thickness mm	± 1mm	± 1mm			
	Squareness mm	± 0mm	± 2mm			
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm			
	Chamfer mm	(+) 0.2mm	± 1mm			
6570	Surface Area of Paver					
3	cm <sup>2</sup>	337	As per Actual			
	Volume of Specimen					
4	cm <sup>3</sup>	2022	As per Actual			
_	Minimum Compressive Strength N/mm²		35 N/mm²			
5	28 Days	≥ 40				
	Water Absorption	4.50/	Maximum 6%			
6	(%)	< 6%				
-	Dry Density	2250	22501-7-3 : 501 / 3			
7	kg/m³	2250	2250 kg/m³, ± 50 kg/m³			
	Abrasion Resistance	4.3	Massim 2			
8	mm	< 2mm	Maximum 3mm			
	Face Layer Pigment (Color)		Synthetic or Nautral (Zinc			
9		Synthetic or Natural	compound or organic dyes or Lead			
	pigments shall not be used)					
	Lable and Marking					
	Concrete paver block package shall be marked with the following information suitably:					
	a) Identification of the manufacturer,					
10	b) Grade of paver blocks, and					
10	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 physica damage including chipping, cracking, deform or any other damage from actual product specifications					







### Product: Square Paver (200x200x60)mm

S.No.	Description	Asian Concreto	Standard References Nepal Standard 593:2077			
5.NO.	Description	Asian Concreto				
	Dimension of Specimen					
	Length mm	200	As per Actual			
	Width mm	200	As per Actual			
	Thickness mm	60	As per Actual			
1	Aspect Ratio mm	3.33	Maximum 4			
	Arris/ Chamfer mm	7.2	Min 5, Max 7			
	Squareness mm	Nil	Nil			
	Thickness of Wearing Layer mm	> 6	Minimum 6mm			
	Dimension Tolerance					
	Length mm	± 1mm	± 2mm			
	Width mm	± 1mm	± 2mm			
2	Thickness mm	± 1mm	± 1mm			
	Squareness mm	± 0mm	± 2mm			
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm			
	Chamfer mm	(+) 0.2mm	± 1mm			
2	Surface Area of Paver					
3	cm <sup>2</sup>	400	As per Actual			
	Volume of Specimen	2400				
4	cm <sup>3</sup>	2400	As per Actual			
-	Minimum Compressive Strength N/mm²	- 15	25 N/mm²			
5	28 Days	≥ 45	35 N/mm²			
	Water Absorption		Maximum CO/			
6	(%)	< 6%	Maximum 6%			
-	Dry Density	2250	22501-7-3 : 501 7 3			
7	kg/m³	2250	2250 kg/m³, ± 50 kg/m³			
	Abrasion Resistance	. 2	Manifesta			
8	mm	< 2mm	Maximum 3mm			
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lea pigments shall not be used)			
	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					
10	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					







## <u>Technical Specification of Concrete Flooring Tiles</u>

## Product: Tactile (400x400x40)mm

S.No.	Description	Asian Concreto	Standard References  ASTM C 1731, BS 5385		
5.NO.	Description	Asian Concreto			
	Dimension of Specimen				
	Length mm	400	As per Actual		
	Width mm	400	As per Actual		
4	Thickness mm	40	As per Actual		
1	Arris/ Chamfer mm	7.2	Min 5, Max 7		
	Flatness mm	Nil	1mm		
	Straightness	Nil	1% of Length		
	Thickness of Wearing Layer mm	> 6	Minimum 6mm		
	Dimension Tolerance				
	Length mm	± 1mm	± 1mm		
•	Width mm	± 1mm	± 1mm		
2	Thickness mm	± 1mm	± 5mm		
	Arris/ Chamfer mm	(+) 0.2mm	± 1mm		
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm		
_	Surface Area of Tile	1000	As a sea Astroph		
3	cm <sup>2</sup>	1600	As per Actual		
	Volume of Specimen	C400			
4	cm <sup>3</sup>	6400	As per Actual		
-	Minimum Compressive Strength N/mm <sup>2</sup>		25 N/mm²		
5	28 Days	≥30			
	Water Absorption	.604	Marries 4 00/		
6	(%)	< 6%	Maximum 10%		
7	Dry Density	2250	22501 / 3 - 501 / 3		
	kg/m³	2250	2250 kg/m³, ± 50 kg/m³		
_	Abrasion Resistance	. 2	M		
8	mm	< 2mm	Maximum 2.5mm		
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)		
	Lable and Marking				
	Concrete tile package shall be marked with the following information suitably:				
	a) Identification of the manufacturer,				
4.5	b) Grade of concrete tiles, and				
10	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				





### Product: Unipaver (240x120x60)mm

S.No.	Description	Asian Canarata	Standard References Nepal Standard 593:2077			
5.NO.	Description	Asian Concreto				
1	Dimension of Specimen					
	Length mm	240	As per Actual			
	Width mm	120	As per Actual			
	Thickness mm	60	As per Actual			
	Aspect Ratio mm	4	Maximum 4			
	Arris/ Chamfer mm	7.2	Min 5, Max 7			
	Squareness mm	Nil	Nil			
	Thickness of Wearing Layer mm	> 6	Minimum 6mm			
	Dimension Tolerance					
	Length mm	± 1mm	± 2mm			
	Width mm	± 1mm	± 2mm			
2	Thickness mm	± 1mm	± 1mm			
	Squareness mm	± 0mm	± 2mm			
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm			
	Chamfer mm	(+) 0.2mm	± 1mm			
51	Surface Area of Paver					
3	cm <sup>2</sup>	288	As per Actual			
	Volume of Specimen					
4	cm <sup>3</sup>	1728	As per Actual			
	Minimum Compressive Strength N/mm <sup>2</sup>		35 N/mm²			
5	28 Days	≥ 40				
	Water Absorption	1.60/	Marrian COV			
6	(%)	< 6%	Maximum 6%			
-	Dry Density	2250	22521 / 3 . 521 / 3			
7	kg/m³	2250	2250 kg/m³, ± 50 kg/m³			
	Abrasion Resistance		Mauline 2			
8	mm	< 2	Maximum 3mm			
	Face Layer Pigment (Color)		Synthetic or Nautral (Zinc			
9		Synthetic or Natural	compound or organic dyes or Lead			
	pigments shall not be used)					
	Lable and Marking					
	Concrete paver block package shall be marked with the following information suitably:					
	a) Identification of the manufacturer,					
10	b) Grade of paver blocks, and					
10	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					





Product: Zigzag Paver (225x112.5x80)mm Zigzag Paver (225x112.5x100)mm

C N -	Description Asian Communication		Standard References				
S.No.	Description Asian Concreto			Nepal Standard 593:2077			
	Dimension of Specimen						
1	Length mm	225	225	As per Actual			
	Width mm	112.5	112.5	As per Actual			
	Thickness mm	80	100	As per Actual			
	Aspect Ratio mm	2.81	2.25	Maximum 4			
	Arris/ Chamfer mm	7.2	7.2	Min 5, Max 7			
	Squareness mm	Nil	Nil	Nil			
	Thickness of Wearing Layer mm	> 6	> 6	Minimum 6mm			
	Dimension Tolerance						
	Length mm	± 1mm	± 1mm	60mm Thickness = ± 2mm 100mm Thickness = ± 3mm			
	Width mm	± 1mm	± 1mm	60mm Thickness = ± 2mm 100mm Thickness = ± 3mm			
2				60mm Thickness = ± 1mm			
	Thickness mm	± 1mm	± 1.5mm	100mm Thickness = ± 1.5mm			
				60mm Thickness = ± 2mm			
	Squareness mm	± 0mm	± 0mm	100mm Thickness = ± 3mm			
	Thickness of Wearing Layer mm	(+) 2mm	(+) 2mm	(+) 2mm			
	Chamfer mm	(+) 0.2mm	(+) 0.2mm	± 1mm			
	Surface Area of Paver						
3	cm <sup>2</sup>	243 243		As per Actual			
	Volume of Specimen	1044	2420	An ann Antoni			
4	cm <sup>3</sup>	1944	2430	As per Actual			
5	Minimum Compressive Strength N/mm <sup>2</sup>		> 50	(80mm) Thickness = 40 N/mm <sup>2</sup>			
э	28 Days	≥ 40	≥ 50	(100mm) Thickness = 50 N/mm <sup>2</sup>			
	Water Absorption		< 6%	Maximum 6%			
6	(%)	< 6%					
7	Dry Density	2250	2250	2250 kg/m³, ± 50 kg/m³			
,	kg/m³	2230					
	Abrasion Resistance						
8	mm	< 2mm	< 3mm	Maximum 3mm			
9	Face Layer Pigment (Color)	Synthetic or Natural	Synthetic or Natural	Synthetic or Nautral (Zinc compound or organic dyes or Lead pigments shall not be used)			
	Lable and Marking						
	Concrete paver block package shall be marked with the following information suitably:						
	a) Identification of the manufacturer,						
10	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						





