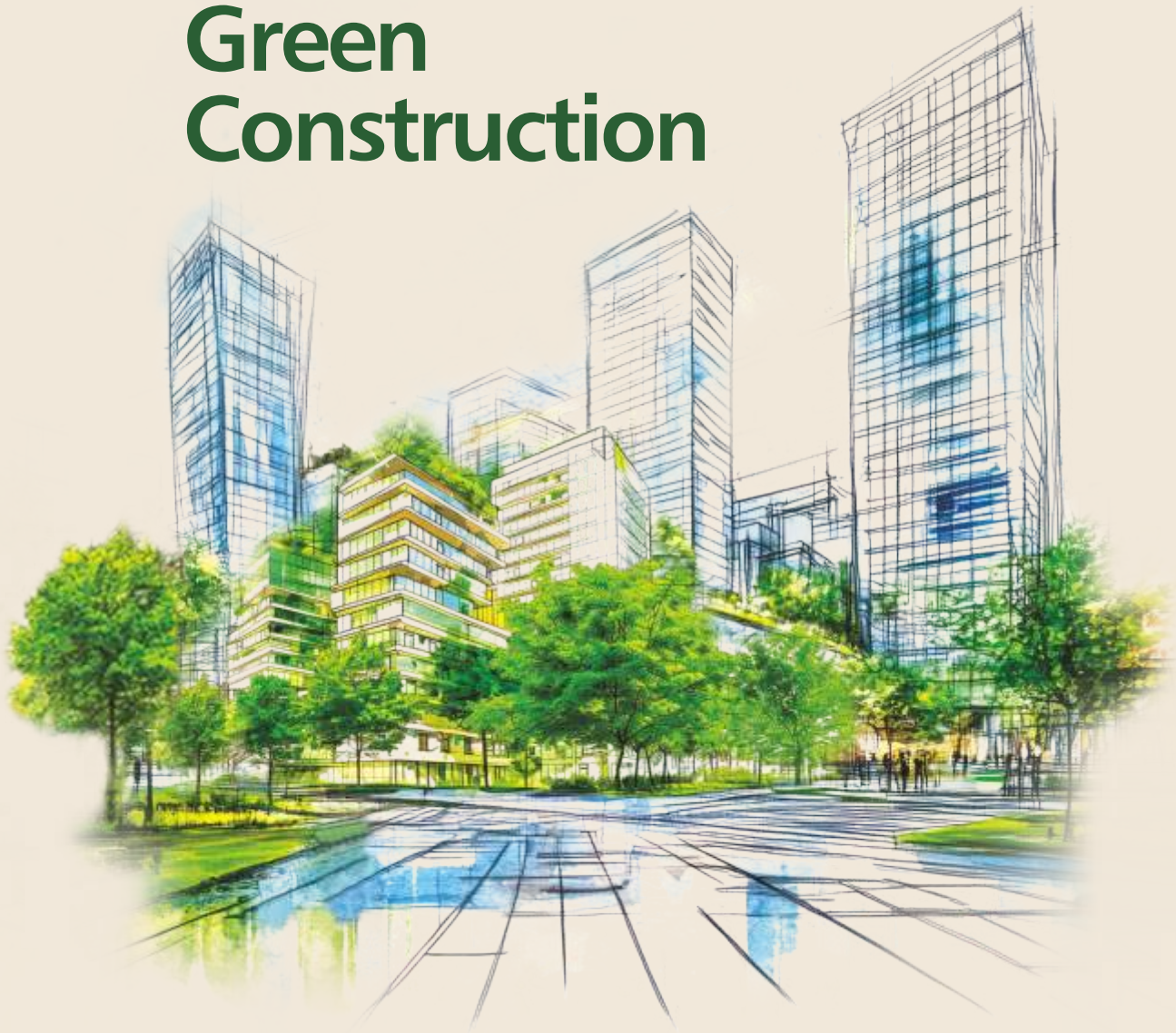




Sustainable Green Construction



An ISO 9001 : 2015 Company



BUILDING

- Zero discharge plant
- Utilizing more than 15,00,000kg of ash ever month
- Rain water harvesting



THE CONSTANT COMMITMENT TO A GREENER FUTURE

It is no child's play, when it comes to the task of turning industrial wastes into sustainable eco-friendly construction products. Yet, progressing onwards with the professional values of serious determination and total commitment, Harden Bricks has succeeded in making a name of its own. Uniform upkeep of excellence and quality in products has served as the foundation of Harden Bricks's repute.

The concern that stems up readily with the vast scales of urbanization is the total ransacks of the environment through the use of alluvial soil for the making of traditional construction bricks. Harden Bricks has taken to this global concern by providing the solution of manufacturing fly ash bricks. Starting off in 2013, the company now successfully stands as the leading manufacturer of fly ash bricks, pavers and allied precast products in the state of West Bengal.

Harden Bricks caters with an expansive radius of service, ranging from products for residential projects to that of big commercial ventures. The customer experience counts heavily for Harden Bricks and every care is taken to provide the same of the highest possible standard.

The reputation of Harden Bricks is a hard earned one that has been made possible with the strict lookout to maintain excellence in quality, total immersion in commitment and service.

Harden Bricks is the member of Indian Green Building Council. The manufacturing facility has earned ISO 9001:2015 certification in producing 'Green' building construction materials. The company is also the founding member of All India Association of Fly Ash Products Manufacturer and Pavers and Block Manufacturers Association.

The products manufactured comply with

- Fly Ash Bricks: BIS Code 16720:2018. License Number - 5100223205
- Pavers: BIS Code 15658:2021. License Number - 5100223154
- Hollow Block & Solid Block: BIS Code: 2185:2005
- Kerb Stones: BIS Code 5758:2005



THERMAL WASTE...



CONVERTED INTO ECO-FRIENDLY PRODUCTS



Govt. notification for compulsory use of fly ash bricks within 300 kms of thermal powerplant



No excavation of agricultural top soil as in traditional clay brick



millions of tonnes of harmful CO₂ emission saved as in clay brick kiln



Generate Permanent Employment.
No Child Labour

Rich cultivable top soil gets randomly used to make bricks. It is a complete waste and causes major environmental damage. This also has direct ramifications with the crop and food production of the country.

Fly Ash Bricks on the contrary are Eco-Friendly and uses the waste of thermal power plants thus becoming cost effective solutions to this problem.







CONTROLLED PROCEDURE OF MANUFACTURING

The Big Four Hardening Tests

1

First, the raw material has to be right. Fly Ash, Aggregate Dust, Sand, Cement and Water is mixed in the right quantity to form a composite mortar in an automatic mixing machine.

2

Then a fully automated machine is deployed to manufacture the products.

3

The products are then dried under covered shade. When dry to the specifications, they are laid out in stacks and cured for a minimum of 21 days.

4

After 7 days of sun drying the products are tested for strength and ready for dispatch.

Production Control Mechanism

- Ensuring quality consistency by mixing sand and other raw materials in real time
- Monitoring the exact moisture content and control the water addition to the mixture
- Using moisture measurement sensor Hydronix to get accurate moisture level in the mixture of water/cement ratios

This modern moisture sensor technology helps to make sure the perfect manufacturing process

ECONOMICAL CONSTRUCTION MATERIAL





ADVANTAGES OF HARDEN BRICKS



Cost Saving
Faster | Less of mortar | Timely delivery



Ease of Working
Smooth and uniform size



Better Thermal Property



Higher Compressive Strength
>80kg per sq/cm



Fire Resistant



Pest Resistant



Higher Carpet Area



Resistance to Salinity and Water Seepage



Better Acoustic Properties

CLIENT SPEAK

We have known M/s Harden bricks Pvt. Ltd. from its very inception as they have been supplying its products - fly ash bricks - to our various building projects. We are very pleased with the uncompromising quality of its products and schedule of delivery. We sincerely appreciate its responsiveness and the way they conduct business. We have no doubt whatsoever in recommending their product to others because of our satisfaction of their service and we look forward to doing business with them for all our on-going and future projects.

Mr. Jugal Khetawat
Chairman, Rameswara Group
South City Projects

This is to certify that we have used the fly ash bricks manufactured & supplied by M/s Harden Bricks Pvt. Ltd. for our various projects and we are very satisfied with their quality, performance, service & price.

Ahluwalia Contracts India Ltd.

We have used the fly ash bricks manufactured & supplied by M/s Harden Bricks Pvt. Ltd. for our project site and we are satisfied with their quality performance.

Parijat Mukhopadhyay
Manager - Materials
for ITD Cementation India Limited

Abhishek Agrawal



Good quality bricks.
Much much better then rubber moulded bricks

Dev Sharma



The company deals with superior quality products.

Anupam Bajoria



Durable and best quality bricks and pavers.

Indranil Roy



Ordered 5000 pieces of ash bricks on 23.05.23, delivery made on the same date as well. Good quality of commodities alongwith secured form of transportation.

Koustav Kundu



Brick mfg

Isaac Mangalaraj



Timely delivery

Dharm Prakash



Best quality, delivery as per commitment

Wasim Ali Mondal



Good to work with harden bricks. Commitment level, pricing and quality of products are really fantastic....



Kalyani AIIMS



Auditorium



**PWD Road /
Industrial Park**



Urbana



Howrah Metro

OUR ESTEEMED CLIENTS



Disclaimer: All the logos are registered trademarks of the respective companies

...many more

PRODUCT SPECIFICATION



	Technical Evaluation	HB Fly Ash Bricks	HB Solid Concrete Blocks	HB Paver Blocks
1	Dimension	250x120x70mm, 230x110x70mm, 190x90x90mm	390x200x90mm, 400x200x150mm, 400x200x200mm	60mm, 80mm, 100mm, 120mm
2	Colour	Grey	Grey	Various Colour Option.
3	Finish	Smooth	Smooth	Rough & Smooth
4	Basic Ingredient	Fly Ash + OPC 53 Cement + Sand + Stone Dust + Water	Aggregate + Sand + OPC 53 Cement + Fly Ash + Water	Aggregate + Sand + OPC 53 Cement + Fly Ash + Water
5	Density (kg/cubic meter)	1600-1700	2050-2150	2200-2350
6	Compressive Strength (Kg/Cm2)	80-100*	100*	300-550*
7	Water Absorption	<15%	<10%	<5%
8	Drying Shrinkage	0.03%	0.01%	N.A
9	Breakage in Transit	Less than 2%	Less than 2%	Less than 2%
10	Efflorescence	Nil	Nil	Low
11	Eco-Friendly	Yes	Yes	Yes
12	Mortar Saving- During laying	10-15%	15-20%	N.A
	During Plaster	10-15%		N.A

*Compressive strength can be increased as per customers requirement.

HB CEMENT BRICKS



190 X 90 X 90



230 X 110 X 70



190 X 190 X 90



250 X 120 X 70



250 X 120 X 70



SOLID BLOCKS



Size (Inch)	Length (mm)	Height (mm)	Thickness (mm)	Strength (N/mm.sq)	Weight (Kg)
4"	390	200	90	10	14
6"	400	200	150	10	25
8"	400	200	200	10	34

* Weight Approximate

HOLLOW BLOCKS

Hollow blocks are made of concrete and have hollows in the middle. Eco-friendly hollow blocks are great for their durability, construction speed and cost-effectiveness.



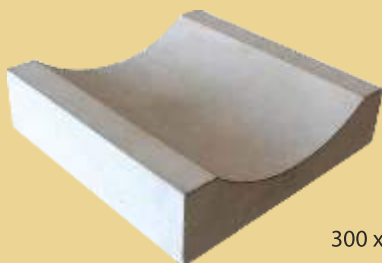
Advantages

- Highly Durable
- Good Resistance to Fire
- Low Density
- Better Thermal and Sound Insulation
- Environment Friendly
- Cost Savings of Upto 20%

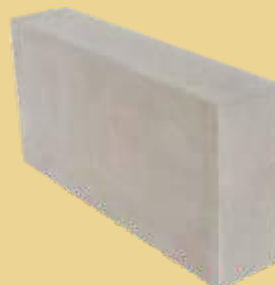
Size (Inch)	Length (mm)	Height (mm)	Thickness (mm)	Strength (N/mm.sq)	Weight (Kg)
4"	390	190	90	7	12
6"	390	190	150	7	15
8"	390	190	190	7	17

* Weight Approximate

SAUCER DRAIN & WATER CHANNEL

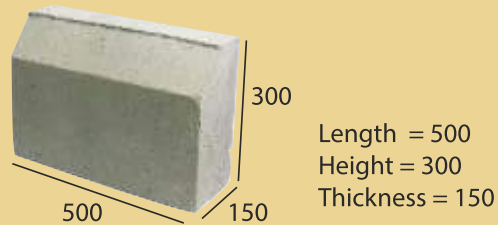
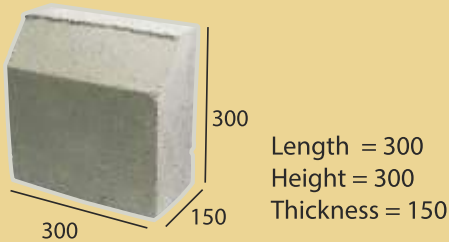


300 x 300 x 100 mm



390 X 200 X 90

KERB STONES



Kerb Stones are concrete solid that is fixed end to end with other solids to form a Kerb. They are generally used for forming curves, corners and transition without cutting.

Advantages

- Highest strength & density
- Available in various sizes and patterns
- Available in various colours
- Protects path from roads and other external surfaces
- Provides attractive look to gardens

COVER BLOCK



75 mm Footing Pyramid



150 mm Round



20 X 25 X 40 X 50 mm

Cover block is a spacer that is used to lift the rebar matrix off the ground so that concrete may flow under the rebar.

Advantages

- Maintains distance between the rebar & shuttering
- Protects steel bars from corrosion
- Provides thermal insulation
- Enhances the life of the structure
- Cost-effective



READYMADE PRECAST BOUNDARY WALL

Precast Boundary wall from Harden Bricks are of high density and durable compared to traditional brick work. These precast walls are faster to construct, require no plasters and cost effective.

Dimension: Height: 5ft to 8ft | Length: 7ft X 1ft | Thickness: 50mm

Advantage:

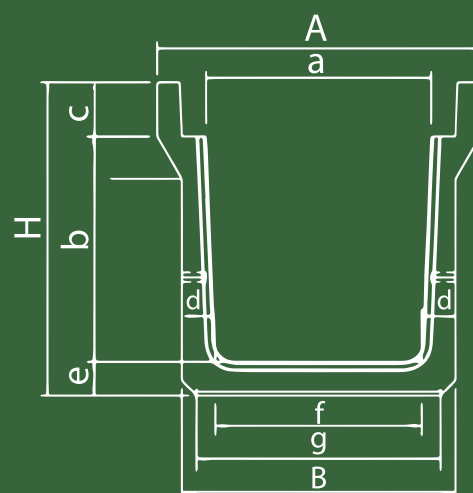
- Durable & High Strength
- 4mm Reinforcement with M20 Grade Concrete
- Cost Effective
- Save Time - Quick Installation
- Fire Resistance.
- Aesthetic Appeal



PRECAST CONCRETE U-DRAIN

Advantages

- Made in India products with advanced German technology
- Best quality raw materials used, RCC Grade M40
- Design as per JIS standards & meeting IS requirements
- Crack free & smooth surface concrete products provides excellent durability
- Faster works as ready to use & easy to use products
- Maintenance free concrete products
- Better value for money w.r.t. conventional construction



Section

Size (mm) a x b	Dimensions of U Shape drain (mm)									
	L	A	B	H	a	b	c	d	e	f
300 x 300	2000	540	420	480	300	300	110	70	70	280
450 x 450	2000	700	590	660	450	450	130	80	80	430
600 x 600	2000	860	730	835	600	600	145	90	90	550
750 x 750	2000	1050	890	1000	750	750	150	100	100	690
900 x 900	2000	1200	1070	1170	900	900	160	120	120	830
1200 x 1200	2000	1500	1348	1470	1200	1150	200	130	120	1100



PAVEX
Xclusive Pathways

PAVE IT RIGHT

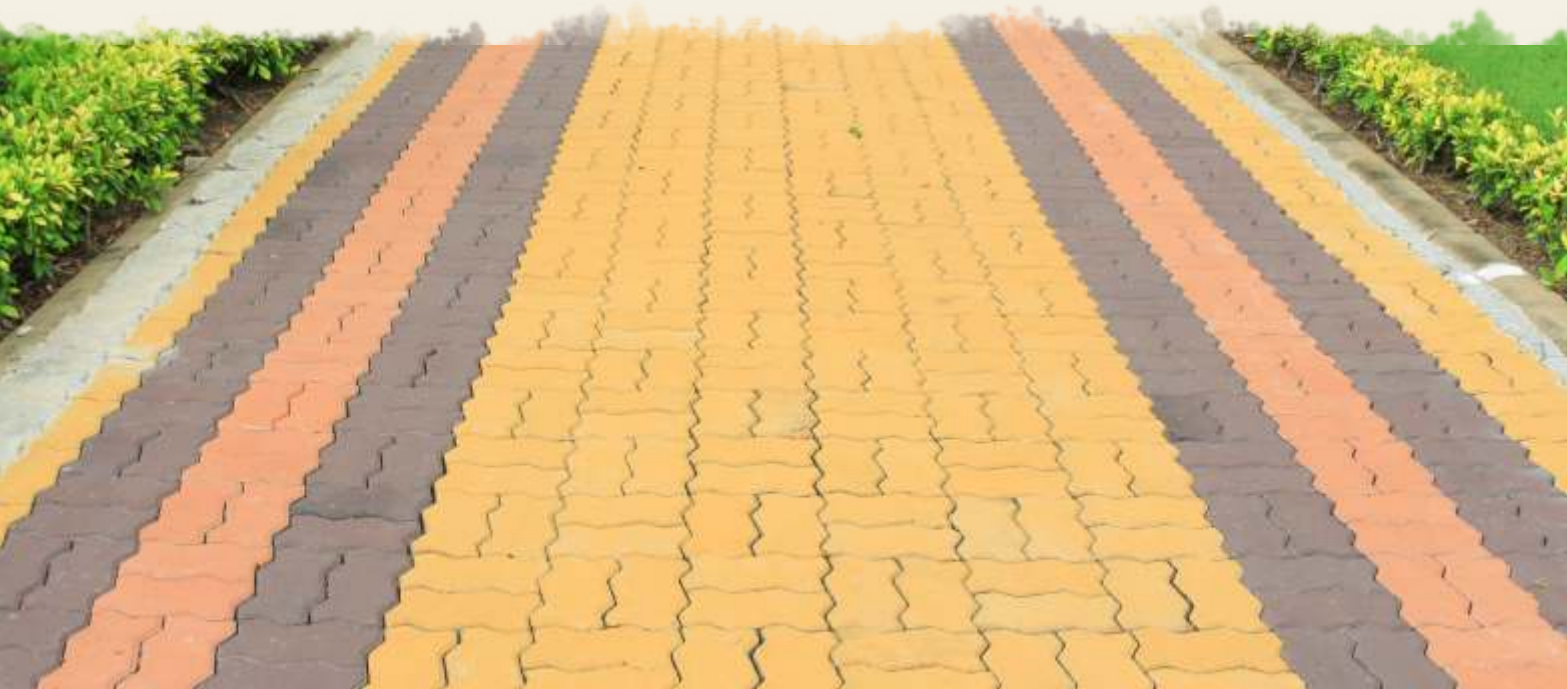
Discover different ways

Because we specialize in paving solutions, Harden Bricks introducing PAVEX. It is uniquely positioned to provide the most extensive array of pavers, grass pavers, kerb stones and tiles while maintaining a level of technical and aesthetics support that is second to none. Our commitment to give you distinctive designs is one advantage we offer over other, less specified integrators. Instead of attempting to sell you a particular product line or a design format, Harden Bricks PAVEX takes pride in designing customized solutions that specifically fits your needs.

Harden Bricks is in business for over a decade manufacturing cement bricks and other allied products. We offer a full range of eco friendly construction materials including building blocks, bricks, pre-cast walls and pavers. High quality and prompt delivery has been our forte since inception.

Our PAVEX range of pave stones is the latest introduction to the Harden Bricks range.

Great quality pavers can now be mixed and matched into savvy patterns to create a unique look. Flip the pages to find some inspiration. You can also use your own imagination and create your personalized designs. We only assure that PAVEX pavers will not let you down in quality.



HYDRAULIC PAVERS

Hydraulic Pavers are consisting of solid concrete blocks that are laid on a bedding material bound by kerb stones. These look much better than normal concrete slabs.

Advantages

- Highest strength density
- Lowest water absorption
- Cost-effective
- Available in various patterns & colours
- Roads made of pavers are highly durable
- Zero maintenance



I Shape Paver
60 mm
3.10 Pcs / Sq.ft



Half Uni Paver
60 / 80 mm
3.44 Pcs / Sq.ft



Uni Paver
60 / 80 / 100 / 120 mm
3.44 Pcs / Sq.ft



Brick Paver
60 / 80 / 100 mm
4.46 Pcs / Sq.ft



Square Paver
60 mm
2.25 Pc / Sq.ft



Mini Square
60 / 80 mm
4.46 Pcs / Sq.ft

GRASS PAVERS

Grass pavers use interlocking grids that evenly distribute vehicle weight and other loads. These pavers can allow rainwater to infiltrate the ground. They also make pavements attractive.

Advantages

- Hard Standing
- Erosion Control
- Ground Armoring
- Access Paths and Parking in Environmentally Sensitive Areas
- Ground water recharge
- Can bear the load of fire tenders



300 X 300 X 80 mm
1 Pc / Sq.ft

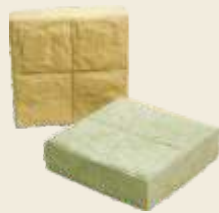


300 X 300 X 120 mm
1 Pc / Sq.ft

RUBBER MOULD PAVERS



Zig-zag
60 / 80mm 2.88 Pcs / Sq.ft



Cobble
60mm 2.25 Pcs / Sq.ft



Rectangle
60 mm Block 4.5 Pcs / Sq.ft



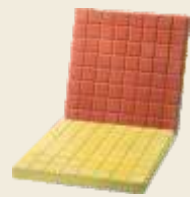
Cosmic
60mm 1.85 Pcs / Sq.ft



Square
2.25 Pcs / Sq.Ft



Earth Pie
25mm 1Pc/Sq.ft



Chequered Tile
25mm 1Pc/Sq.ft

Shot Blast Pavex



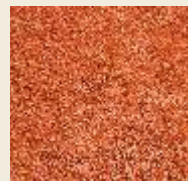
Yellow



Deep Red



Black



Red



Grey

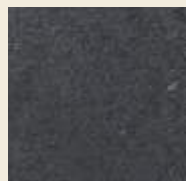
Plain Pavex



Yellow



Brown



Black



Red



Grey



PRODUCT INFORMATION

Efflorescence

Most concrete products tend to suffer from a loss of colour intensity, especially in their early life, and also, occurrences of white stains on the product surface are common. This is called efflorescence. It clears away automatically over a while and do not affect whatsoever the product performance. Harden Bricks thus cannot be held responsible for such occurrences on its products.

Colour Variation

Individually coloured concrete products undergo variable curing and as a result, colour and shade variations occur. Apart from it, colour or shade variations also may appear for factors like conditions of the manufacturing site, seasonal output, or even natural conditions. The colours will fade away over time.

Sizes

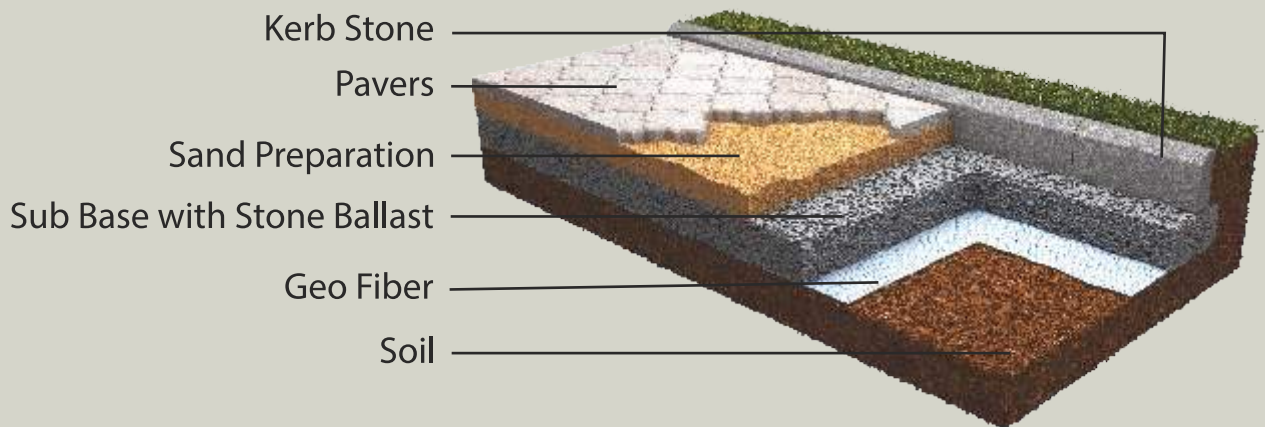
Harden Bricks Pavex pavers have uniform thickness and dimensions as per company specifications. The sizes of the products are kept equal and cut from similar-sized dies with little or no difference between any two products from the same batch.

Liability

Harden Bricks will not accept any kind of liability or responsibility for using their products for any other purpose than their intended use. The products undergo continuous evolution in terms of design and improvement and thus the whole lineup of products from the company is subjected to change without prior notice. Customers are advised to ensure, that the information they come across stated on the products is up to date.

Product Unsatisfactory Condition

If under any circumstances, a product gets delivered other than what is described, the resentful party needs to report it to Harden Bricks before putting it in use. It is necessary, in the best interest of the party to also notify Harden Bricks at the very onset of the fault, thereby reducing the replacement time of the rejected product. If a complaint is raised after the product has been put to use, no responsibility will be taken up by Harden Bricks to provide costs for replacements or removals.



Design and Construction of the Base



Harden Bricks Pvt. Ltd.

An ISO 9001: 2015 Company

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