



# Kerbstones



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## KERBSTONES

The streets are the veins that run through a projects' heart. The very first thing that catches a discerning eye is the street details—the very crux of the urban milieu. Even the most unassuming layperson can sense the quality or the absence thereof in these vital spaces.

The detailing and quality of streets and their edgings, from the intricacies of the kerbs to the design of the drainage solutions, are compelling design elements. They shape the streetscapes and imbue the entire project with character.

VYARA has revolutionized the street design game by offering a wide range of kerbing and allied products of international quality, design, and finishes. Their catalogue is a testament to the highest standards of the art.

We ardently hope that architects and urban designers will embrace these innovative solutions, as shown in this brochure and the pipeline of exciting new products to come.

Kerbs serve several functions, not limited to the following:

- Provide additional strength to the edge of the carriageway.
- Provide a demarcation line between roads and footway and deter traffic from mounting on the footway, thereby ensuring the safety of the pedestrians.
- Prevent vegetation from encroaching on to the roads.
- Generally improve the aesthetics and contribute to a formal paved environment.

Kerbstones can be effectively used in pedestrian areas, domestic drives, public, private and commercial footways, school playgrounds, pedestrian precincts and industrial pavements.





HB Kerbs and Dished Channels used by Surat Municipal Corporation



HB Kerbs, Industrial Park



HB Kerbs, Residential project



Dropper and Radius Kerbs, Municipal streets



'State of the Art', three station Kerb Press from UK

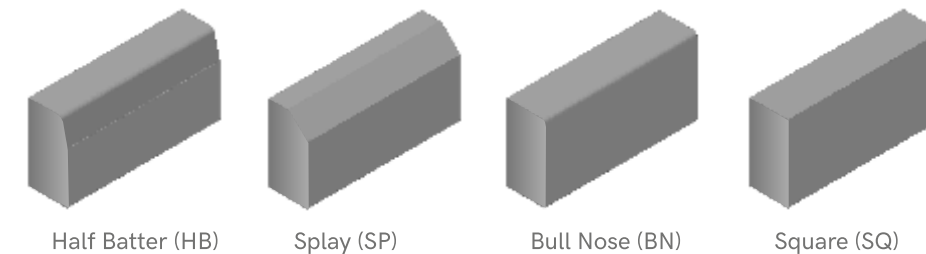
## VACUUM WET PRESS KERBS

VYARA offers an extremely wide range of Kerbs manufactured using a Vacuum Wet Press process with extremely high hydraulic pressure and simultaneous vacuuming. These kerbs have 'the best in the industry' finish and technically conform to the requirements of EN 1340: 2003 and IS 5758:2023. They are ideal for use as road kerbs.

| Characteristics of VWP Kerbs | Benefits                                     |
|------------------------------|--|
| Very high strength           | Long life and value retention of the project |
| Large sizes                  | Fewer joints thus better looks               |
| Extremely good finish        | Better aesthetics                            |
| High abrasion resistance     | Lower need for repair and replacement        |
| Low water absorption         | Reduced blackening and maintenance           |
| Extremely wide range         | Most details can be catered to               |

There are four basic profiles to the most common road kerbs used:

- **Half Batter (HB)**: Most frequently used shape, for deflection of traffic and safety of pedestrians
- **Splay (SP)**: To allow traffic to climb over the footway
- **Bull Nose (BN)**: To provide access to vehicles from carriageways to an access point across the carriageway
- **Square (SQ)**: Used as flush kerbs, to provide restraints at FFL



Half Batter (HB)

Splay (SP)

Bull Nose (BN)

Square (SQ)

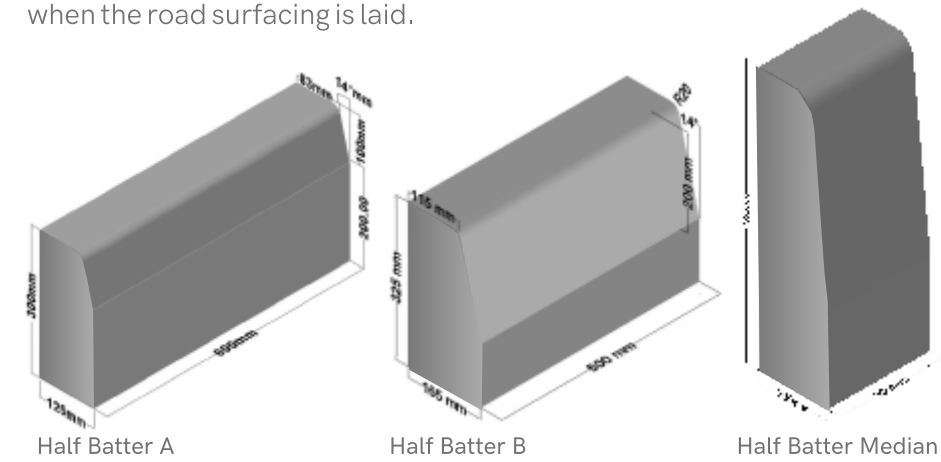




## Half Batter (HB)

Half Batter is the most elegant and commonly used profile of kerbs. This is the profile of choice when a footpath is provided adjacent to the carriageway— it helps deflect the traffic back on to the carriageway and protects pedestrians.

The 'sloping back' profile also enables road rollers to operate right up to the edge of the pavement without scratching or damaging the kerb face when the road surfacing is laid.

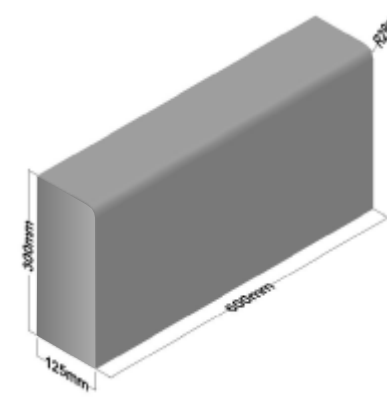


Half Batter A                      Half Batter B                      Half Batter Median

| Profile   | Length (mm) | Height (mm) | Thickness (mm)    |
|-----------|-------------|-------------|-------------------|
| HB A      | 600         | 450/375     | 150/125/100       |
|           | 600         | 300         | 150/125/100/80/65 |
|           | 600         | 215/175     | 150/125           |
|           | 300         | 600         | 150/125           |
| HB B      | 500         | 325         | 165/150/125       |
| HB Median | 300         | 775         | 200/150           |



## Bull Nose (BN)



Bull Nose profile kerbs provide access to vehicles from carriageways to a private driveway or an access point across pedestrian footpath crossing. These allow for vehicles and wheel chairs to cross over very easily.

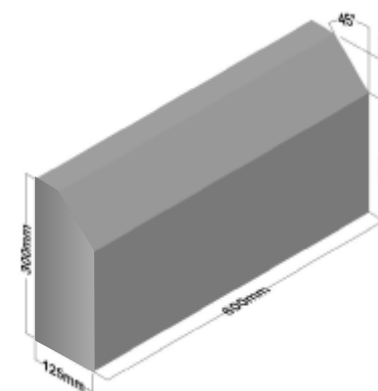
| Profile | Length (mm) | Height (mm) | Thickness (mm)    |
|---------|-------------|-------------|-------------------|
| BN      | 600         | 450/375     | 150/125/100       |
|         | 600         | 300         | 150/125/100/80/65 |
|         | 600         | 215/175     | 150/125           |
|         | 300         | 600         | 150/125           |



## Splay (SP)

The purpose of the Splay profile kerbs is to allow access to vehicular traffic over them. These are typically used to give access to demarcated parking spaces, or where vehicles may need to climb on to verges in case of emergencies.

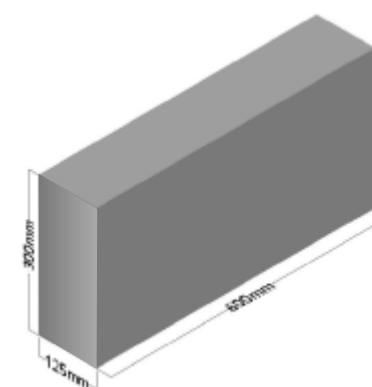
For safety reasons, these are not used when a footpath is present.



| Profile | Length (mm) | Height (mm) | Thickness (mm) |
|---------|-------------|-------------|----------------|
| SP      | 600         | 450/375/300 | 150/125        |

## Square (SQ)

The Square profile is typically used as flush kerbing, embedded completely in the ground, with only the top surface visible. These kerbs help provide restraints for both the footpath as well as the carriage way, and are useful in very low traffic areas, where the sidewalk is intended as a mixed use space to occasionally allow parking of vehicles.



| Profile | Length (mm) | Height (mm) | Thickness (mm)    |
|---------|-------------|-------------|-------------------|
| SQ      | 600         | 450/375     | 150/125/100       |
|         | 600         | 300         | 150/125/100/80/65 |
|         | 600         | 215         | 150/125           |

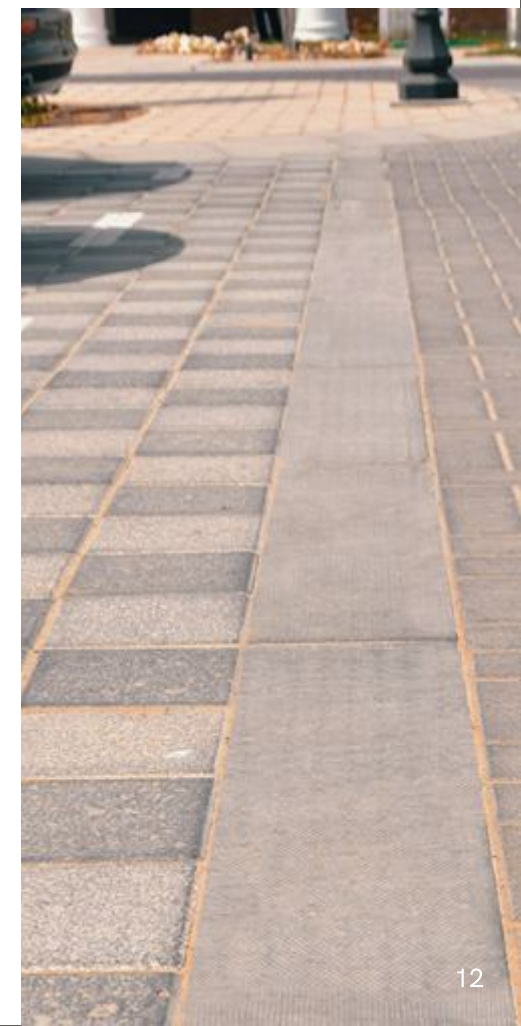




Photo courtesy: M/s. Prabhakar B. Bhagwat

## ACCESSORY KERBS

Accessory kerbs handle transitions from one type of kerb to another, drops in footways, and provide for radiuses and turnings in roads. These are all necessary to obtain detailed design solutions.

- Transition Kerbs
- Dropper Kerbs
- Radius Kerbs
- Quadrant Kerbs
- Angle Kerbs
- Offlet Kerbs
- Dished Channel
- Sloped Channel
- Gully Kerbs
- L Profiled Kerbs (HB and BN)
- TrenchStone
- Drain Covers

These when used together, offer a fairly complete solution to the kerbing needs, whether in the neighborhood, streets or in highways.

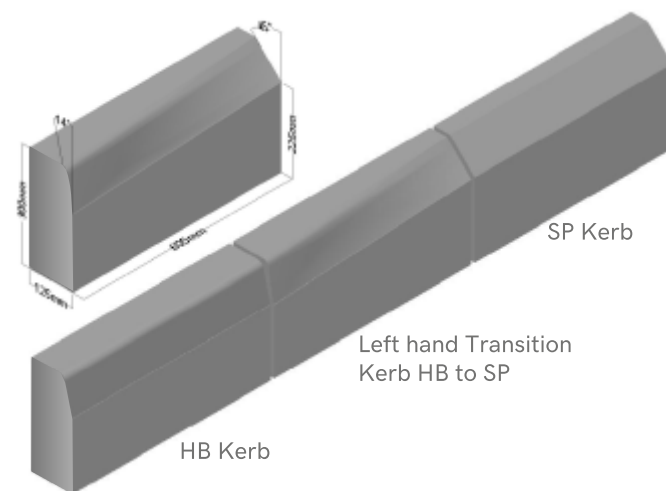






## Transition Kerbs

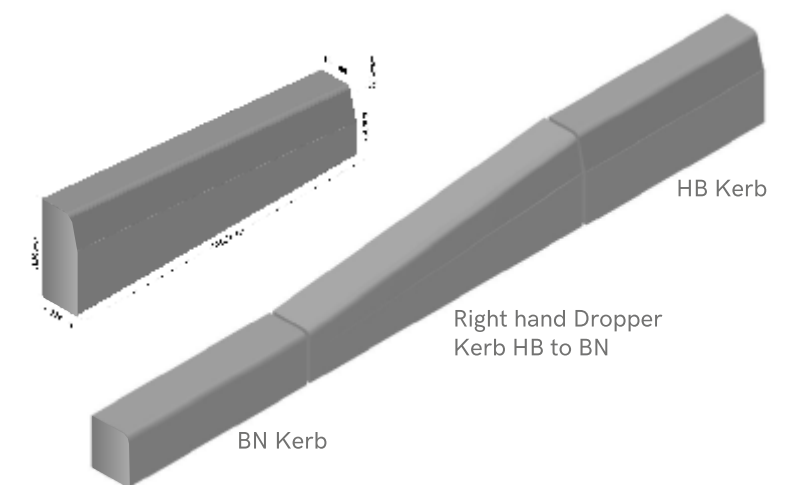
The straight Transition Kerb helps transition from Half Batter to Splay profiles and vice versa. Though a very small quantity of these kerbs are used, they form an important detailing element, and add to the site.



| Profile          | Length (mm) | Height (mm) | Thickness (mm) |
|------------------|-------------|-------------|----------------|
| HB to SP (LH/RH) | 600         | 300         | 150/125/100    |

## Dropper Kerbs

Dropper Kerbs are used to link Half Batter Kerbs to Bull Nose Kerbs and vice versa with drop in height to match the lower placed BN Kerbs which allow access over footways at crossings. These special pieces allow for aesthetically pleasing and seamless transition. They are available from Vyara in 1:10 gradient, and are most commonly seen as 'dropped crossings'.



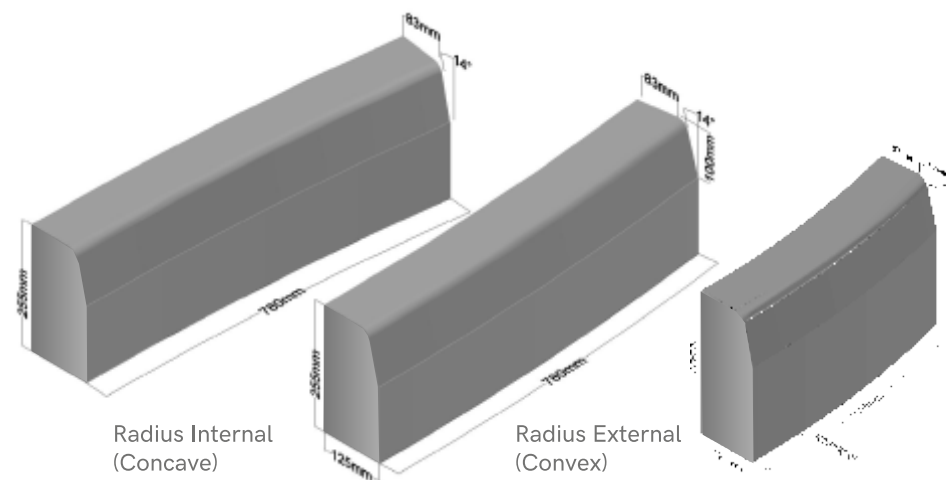
| Profile          | Length (mm) | Height (mm) | Thickness (mm) |
|------------------|-------------|-------------|----------------|
| HB to BN (LH/RH) | 1000        | 300-200     | 150/125/100    |



Photo courtesy: M/s. Prabhakar B. Bhagwat

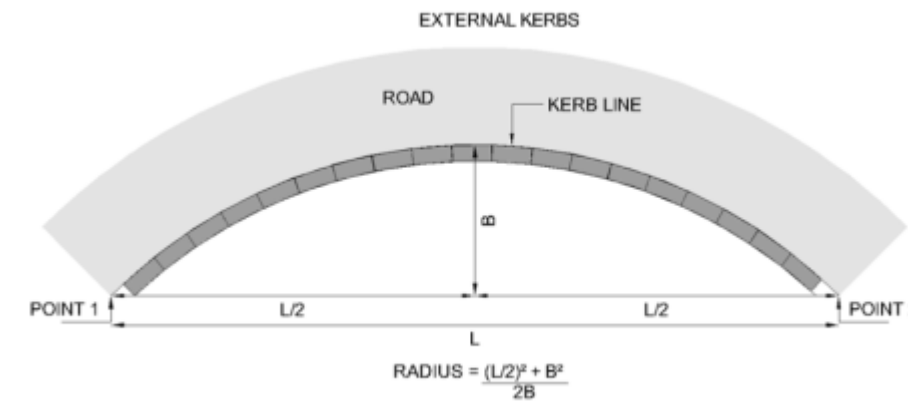
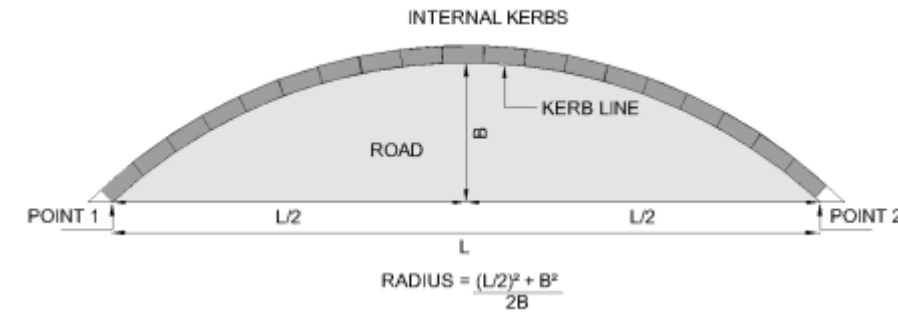
## Radius Kerbs

Radius Kerbs are available in various radii in concave and convex shapes with a half batter profile and a similar pimple finish to match the other road kerbs.



| Profile              | Length (mm) | Height (mm) | Thickness (mm) | Radius (mtr.) |
|----------------------|-------------|-------------|----------------|---------------|
| HB Ext               | 388         | 300         | 150/125/100    | 1             |
|                      | 519         | 300         | 150/125/100    | 2             |
|                      | 780         | 300         | 150/125/100    | 3/4.5/6       |
| HB Ext <sup>WC</sup> | 780         | 255         | 125            | 8/10/12       |
| HB Int <sup>WC</sup> | 780         | 255         | 125            | 3/6/10        |

The radius is specified in metres and it represents what the radius would be if a complete circle was made with the kerbs..

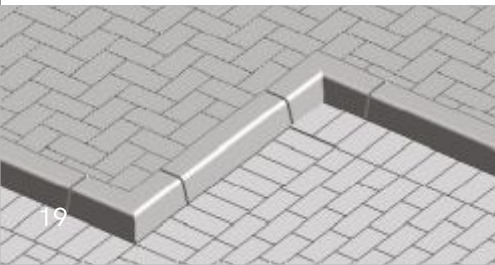
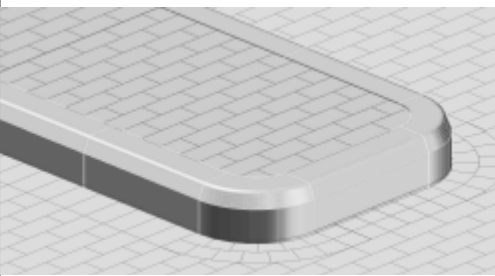


To calculate the radius of the bend and hence what kerbs we need, the formula used is

$$\text{Radius} = \frac{(L/2)^2 + B^2}{2B}$$

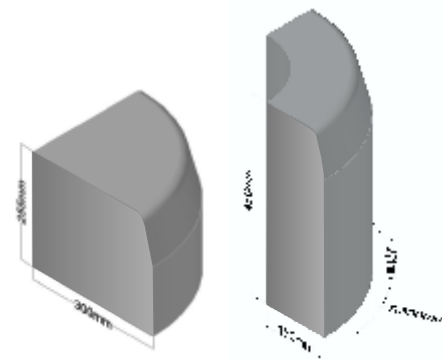
where points 1 and 2 are where the bend starts and stops. Points 1 and 2 are always taken from the face of the kerbs to match the other road kerbs.





## Quadrant Kerbs

Quadrant Kerbs are used when a neat finish on a curved edging is needed. They can be used stand-alone or in combination with straight kerbs.

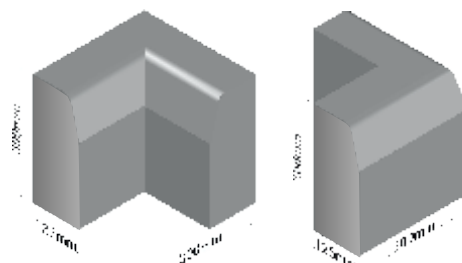


| Profile          | Length (mm) | Height (mm) | Thickness (mm) |
|------------------|-------------|-------------|----------------|
| HB <sup>WC</sup> | 471         | 450         | 150            |
|                  | 300         | 255         | -              |



## Angle Kerbs

Angle Kerbs help provide kerbing treatment details for several road features such as dividers, pedestrian safety bays, parking spaces and the like.



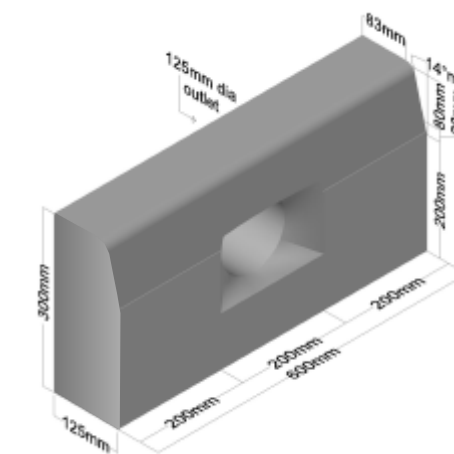
Internal

External

| Profile                    | Length (mm) | Height (mm) | Thickness (mm) |
|----------------------------|-------------|-------------|----------------|
| HB (Int/Ext) <sup>WC</sup> | 300         | 300         | 150/125        |

## Offlet Kerbs

Offlet Kerbs allow standing water to drain away from carriageways to other landscape features. We offer a standard offlet kerb and some core cut options of 100 mm or 125 mm diameter for customized locations of apertures.

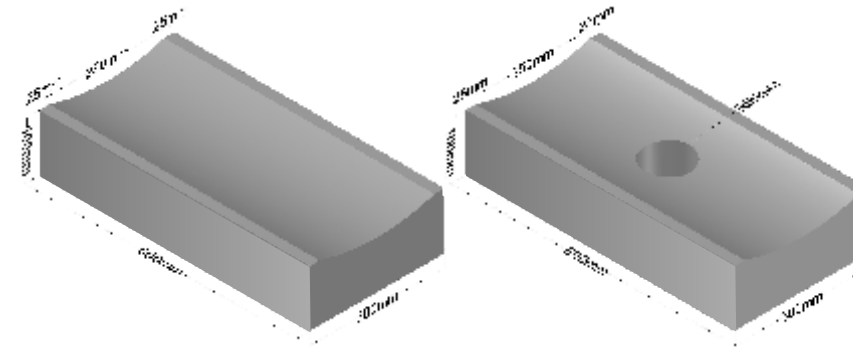


| Profile | Length (mm) | Height (mm) | Thickness (mm) |
|---------|-------------|-------------|----------------|
| HB      | 600         | 300         | 150/125/100    |



## Dished Channel

Dished Channels are normally used adjacent to kerbs towards the carriageway. These aid in smooth drainage of water. Sometimes, they are also used to drain water in other landscape features. Owing to their very regular surface, they can carry decent volumes of water.

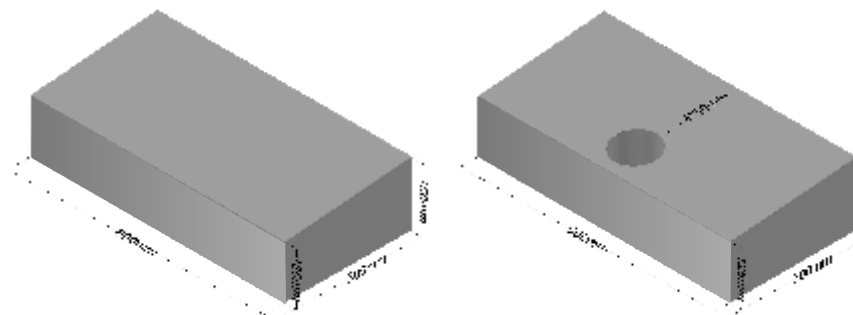


| Profile        | Length (mm) | Width (mm) | Thickness (mm) |
|----------------|-------------|------------|----------------|
| Dished Channel | 600/500     | 300        | 125/100        |

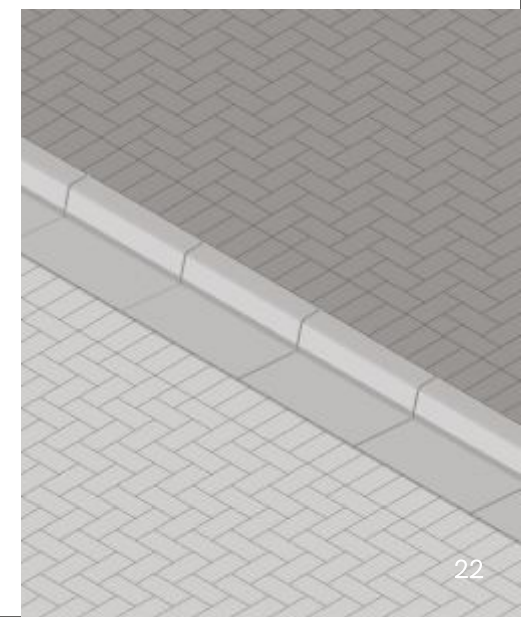


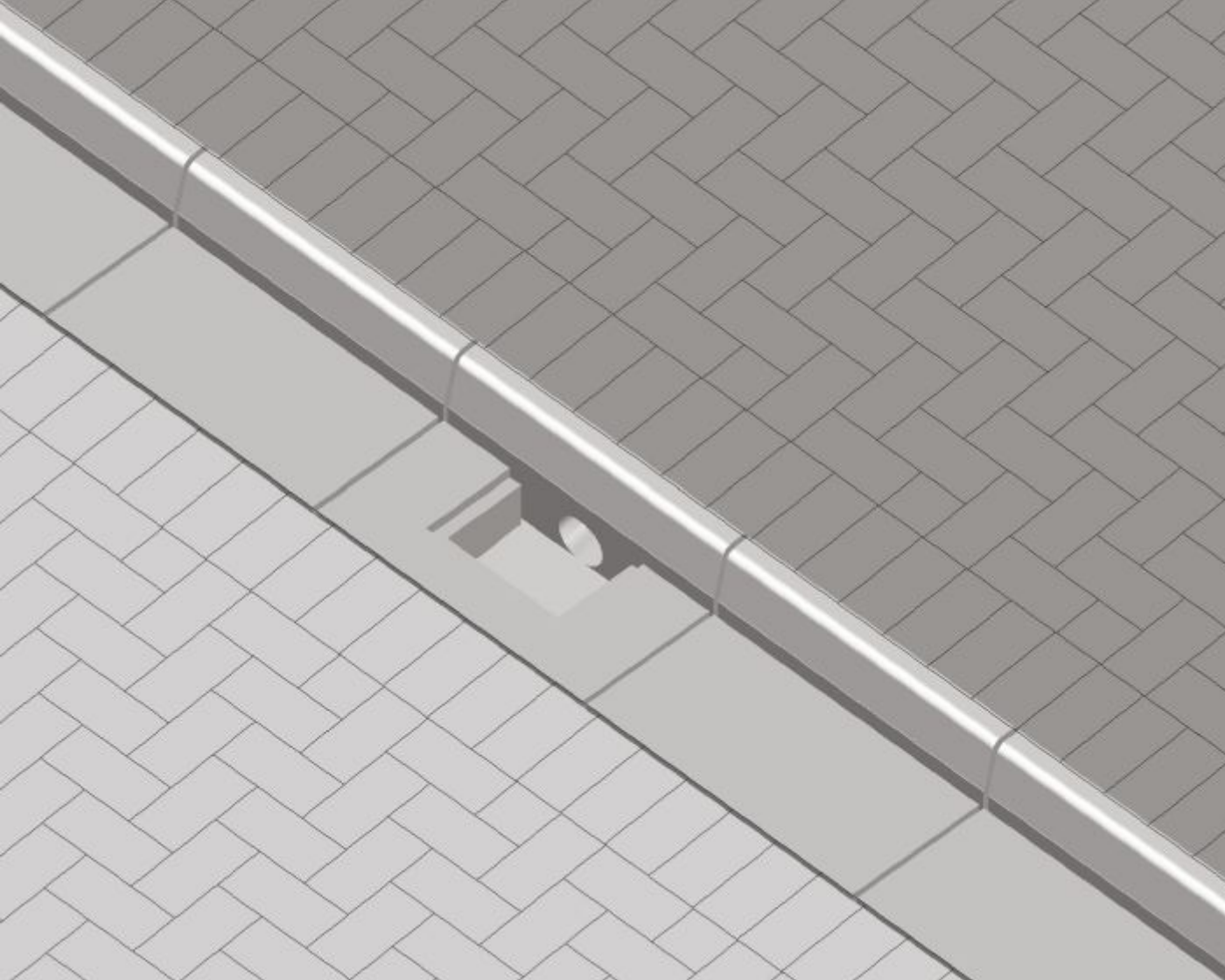
## Sloped Channel

Sloped channel units are used when channels are required to drain away the water, but a dished profile is not desired—for instance when there is a drive over application for wheelchairs. Turned around, they can also be used as roll-over kerbs.



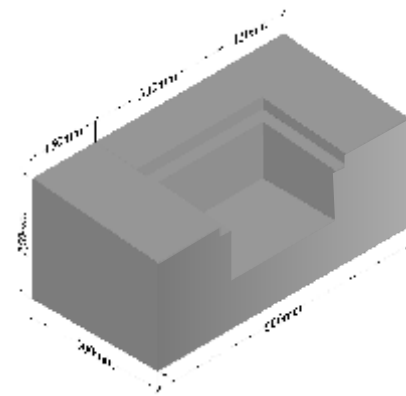
| Profile        | Length (mm) | Width (mm) | Thickness (mm) |
|----------------|-------------|------------|----------------|
| Sloped Channel | 600         | 300        | 150-125        |





## Gully Kerbs

The Gully Kerb offers a possibility to gather water along the carriage-way edge, and to drain it away by using pipes across the corresponding offset kerbs. The slope on the face of the gully matches with that of the sloped channel, and can be used almost seamlessly on the pavement edge.

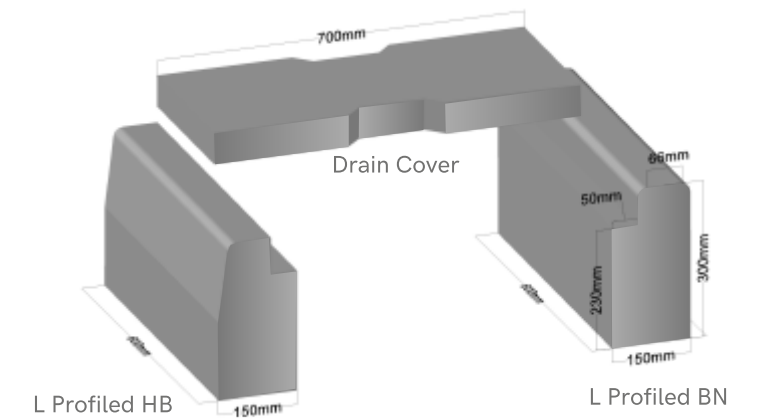


| Profile                  | Length (mm) | Width (mm) | Thickness (mm) |
|--------------------------|-------------|------------|----------------|
| Gully Kerb <sup>WC</sup> | 600         | 300        | 250-225        |



## L Profiled Kerbs

L Profiled kerbs help form a trench that enables the placement of precast drain covers on top, to form a covered drainage system.



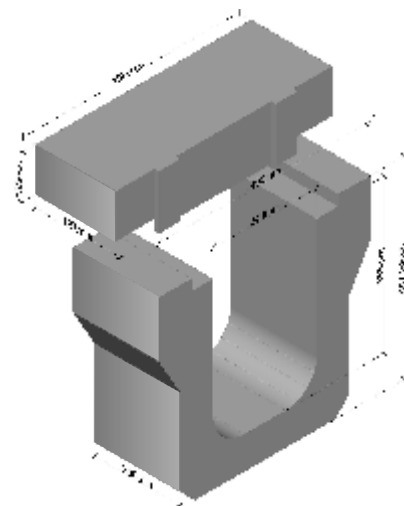
| Profile | Length (mm) | Height (mm) | Thickness (mm) |
|---------|-------------|-------------|----------------|
| BN /HB  | 600         | 300         | 150/125        |



## TrenchStone with Cover

Modular TrenchStones make an excellent solution to drain out water from the surface itself. Made adequately strong, they will withstand light vehicular traffic and occasional heavy vehicular traffic.

High quality covers are available to allow transit movement as mentioned above. These combine to give a practical yet low cost solution for functions including storm water drainage, electrical cable conduit.

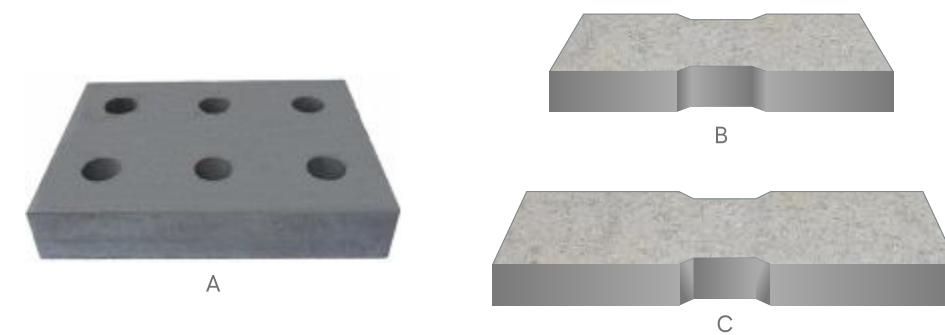


| Profile                   | Length (mm) | Height (mm) | Width (mm) |
|---------------------------|-------------|-------------|------------|
| TrenchStone <sup>CP</sup> | 490         | 450         | 200        |
| Trenchcover <sup>WC</sup> | 490         | 200         | 125        |

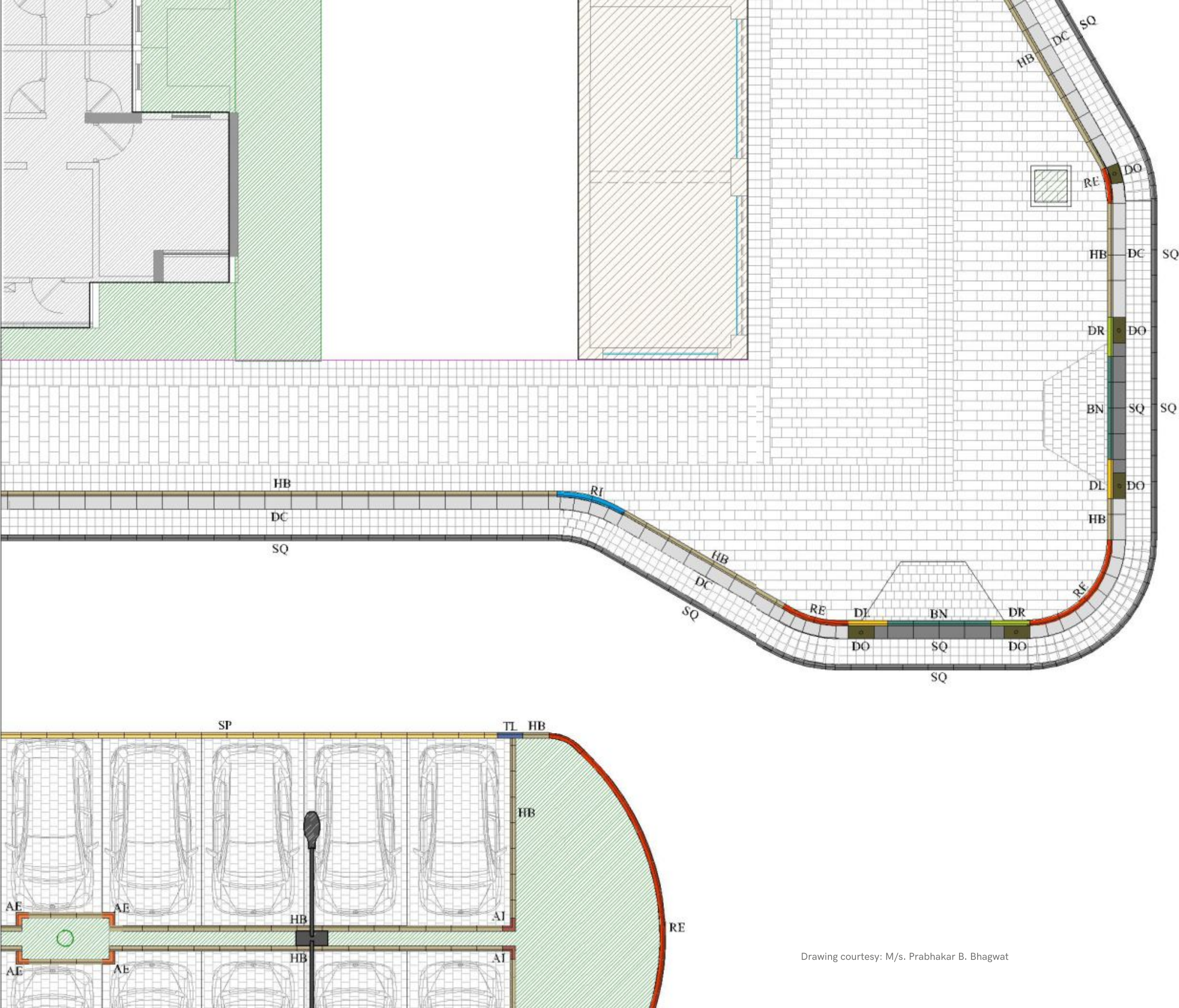


## Drain Covers

Drain Covers are available in reinforced and non-reinforced versions, with the **reinforced version** recommended for most applications. Reinforcement can be customized to suit application or customer requirements.



| Profile                     | Length (mm) | Width (mm) | Thickness (mm) |
|-----------------------------|-------------|------------|----------------|
| Drain Cover A <sup>WC</sup> | 900         | 600        | 100            |
| Drain Cover A               | 600         | 450        | 100/80         |
| Drain Cover B <sup>R</sup>  | 700         | 300        | 100            |
| Drain Cover B <sup>WC</sup> | 700         | 300        | 60             |
| Drain Cover C <sup>R</sup>  | 940         | 300        | 100            |



### Application Example

|  |                             |    |
|--|-----------------------------|----|
|  | Half Batter                 | HB |
|  | Splay                       | SP |
|  | Bull Nose                   | BN |
|  | Square                      | SQ |
|  | Transition Kerb (Left Hand) | TL |
|  | Dropper Kerb (Left Hand)    | DL |
|  | Dropper Kerb (Right Hand)   | DR |
|  | Radius Kerbs (External)     | RE |
|  | Radius Kerbs (Internal)     | RI |
|  | Angle Kerbs (External)      | AE |
|  | Angle Kerbs (Internal)      | AI |
|  | Dished Channel              | DC |
|  | Dished Channel with outlet  | DO |

Drawing courtesy: M/s. Prabhakar B. Bhagwat

## OTHER PRODUCT RANGE BY VYARA

Please refer to our other brochures for these ranges of products

### Paving Blocks

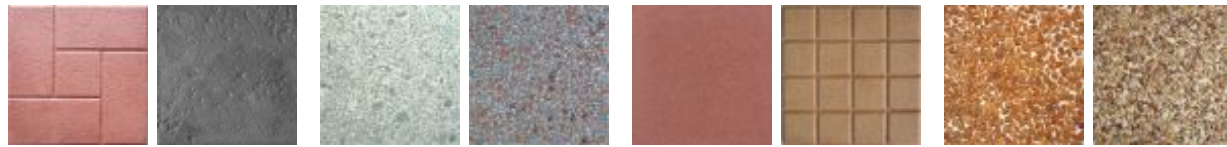
VYARA offers arguably the finest range of pavers, flags, kerbstones, drain covers, and the like, for all external road and pavement needs —whether it is to complement a finely landscaped project or to handle the brutal loads of a container yard.



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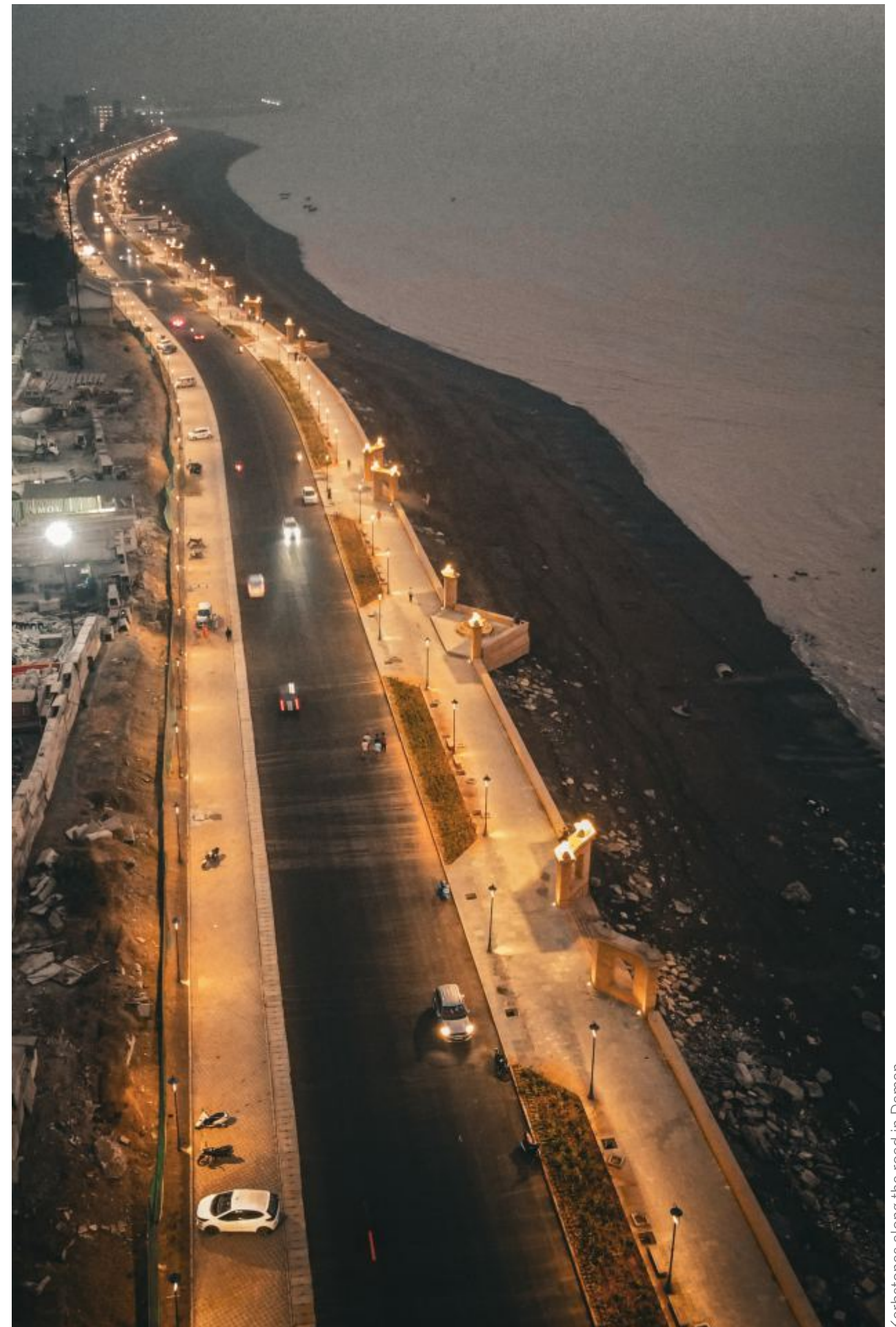
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### FreeForm

Explore an exquisite range of fine Architectural Premixes from FREEFORM by VYARA for cast on site finishing surfaces of Floors and Walls.



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Kerbstones along the road in Daman



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