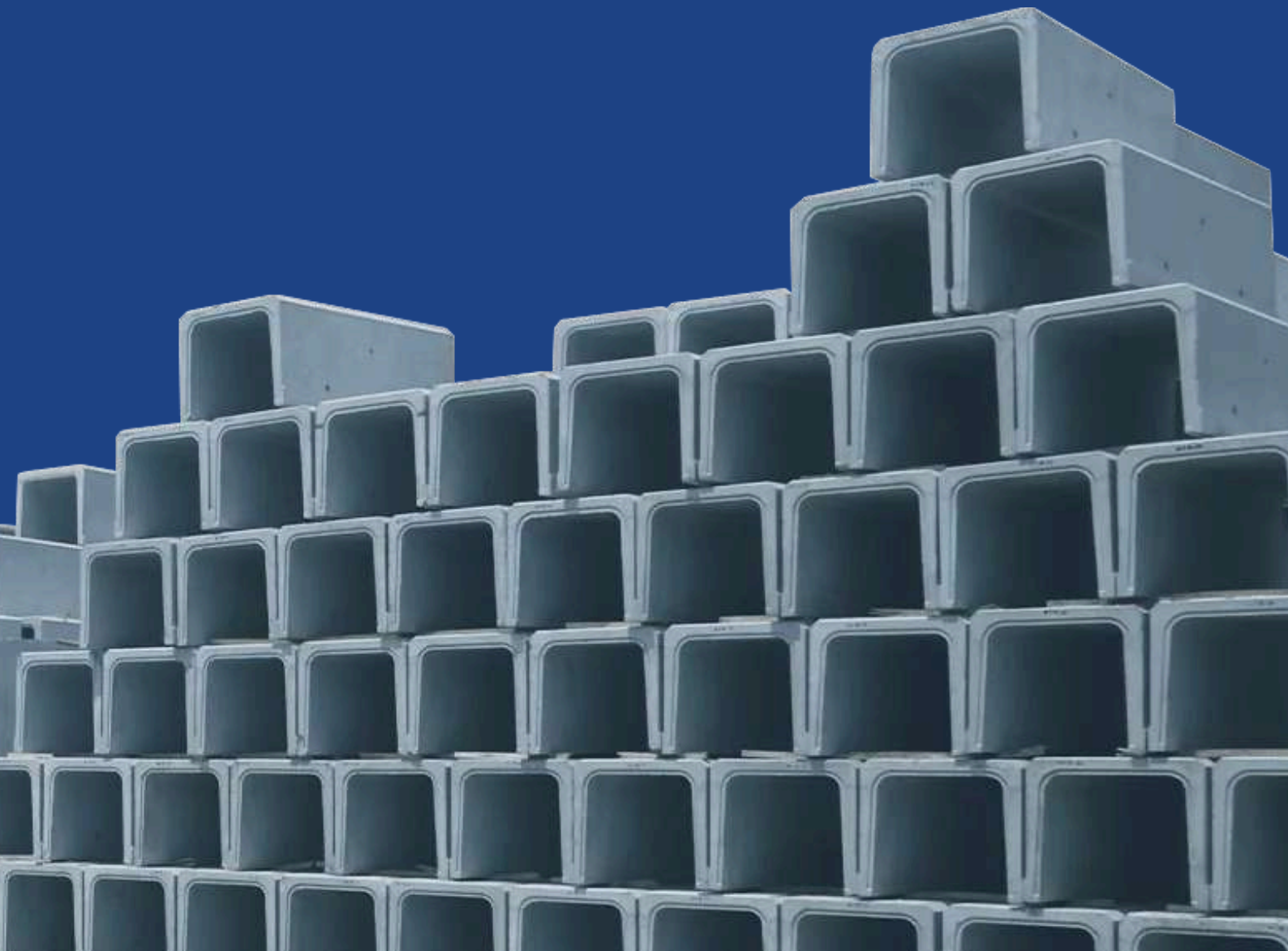




**U-DRAIN | BOX CULVERT | PRECAST WALL**

# **YOUR PARTNER IN PRECAST EXCELLENCE**





Delfy Infratech is a trusted name in precast concrete solutions, specializing in U-Shape Drains, FT Flumes, Precast Box Culverts, Cable Trenches, and other customized RCC products. With a strong commitment to innovation and durability, we deliver infrastructure solutions that support modern development needs across multiple industries.

## About Us

At Delfy Infratech, quality is at the core of everything we do. By using premium raw materials, advanced technology, and expert craftsmanship, we ensure our precast products consistently exceed industry standards in strength, reliability, and performance.

## MANUFACTURING EXCELLENCE

Our state-of-the-art manufacturing facilities enable us to deliver precision-engineered precast products that are durable, eco-friendly, and cost-effective. Combining modern technology with years of expertise, Silicon DrainTech ensures excellence in every product we manufacture.

### Mission

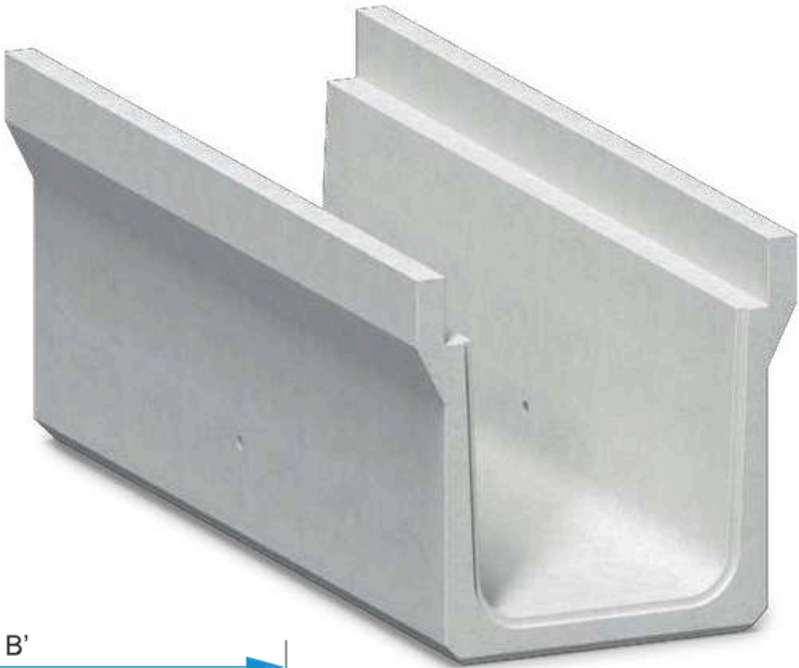
Our mission is to deliver future-ready, high-performance, and eco-friendly precast solutions, setting new benchmarks in strength, reliability, and innovation.

### Vision

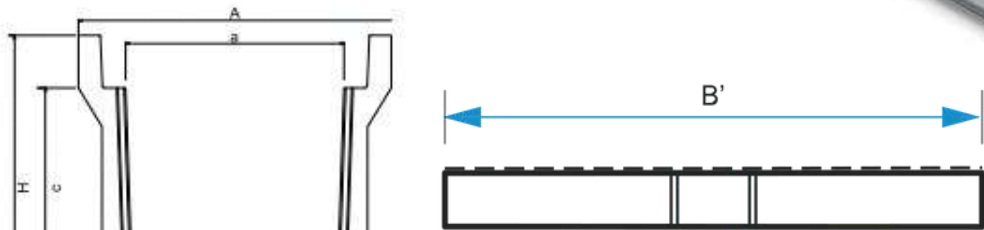
To be a trusted leader in innovative and durable precast solutions, setting new benchmarks in quality and infrastructure excellence.

# U SHAPE DRAIN ( HEAVY )

- U Shape Drains are designed for Heavy load up to 25T truck / 5T wheel load
- Drain is intended to be placed at the shoulder of the road or road crossing within truck limit of 25T.
- USages: Storm water, cable trench, fire hydrant lines, plantation.



## Section

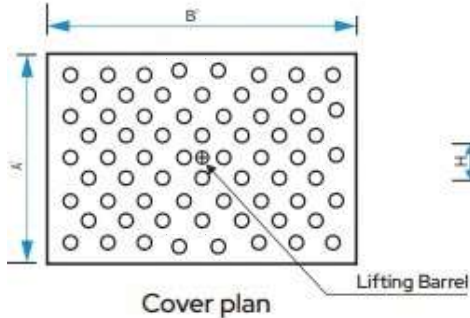
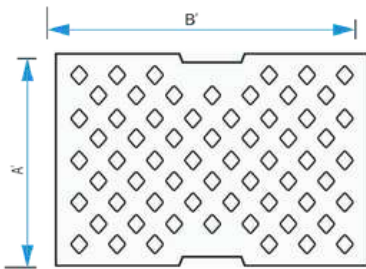
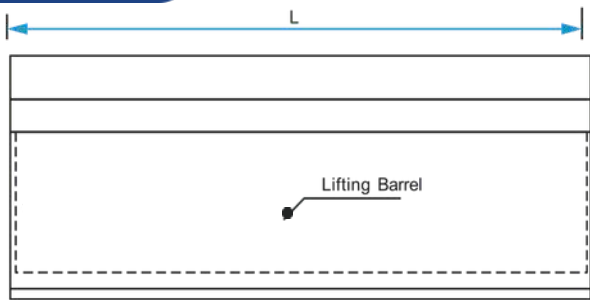


Cover Side View Cover Hole

## Standard Cover

## Without Cover

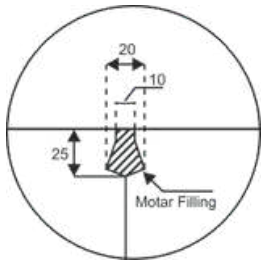
## Side View



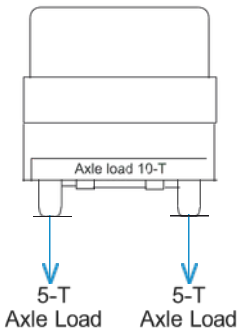
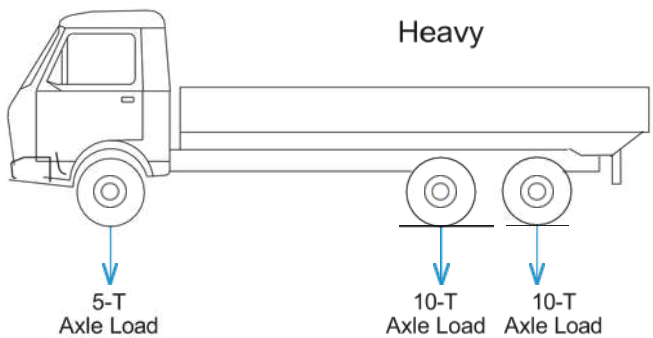
| Size (mm)   | Dimensions of Cover |      |     |
|-------------|---------------------|------|-----|
| B x H       | A'                  | B'   | T   |
| 300 x 300   | 500                 | 416  | 110 |
| 450 x 450   | 500                 | 570  | 130 |
| 600 x 600   | 500                 | 730  | 145 |
| 750 x 750   | 500                 | 900  | 150 |
| 900 x 900   | 500                 | 1052 | 150 |
| 1200 x 1200 | 500                 | 1330 | 150 |

| Size (mm)   |      | Dimensions of U Shape Drain (mm) |      |      |
|-------------|------|----------------------------------|------|------|
| B x H       | L    | A                                | B    | H    |
| 300 x 300   | 2000 | 540                              | 416  | 480  |
| 450 x 450   | 2000 | 700                              | 576  | 660  |
| 600 x 600   | 2000 | 860                              | 736  | 835  |
| 750 x 750   | 2000 | 1050                             | 910  | 1000 |
| 900 x 900   | 2000 | 1200                             | 1060 | 1170 |
| 1200 x 1200 | 2000 | 1500                             | 1360 | 1470 |

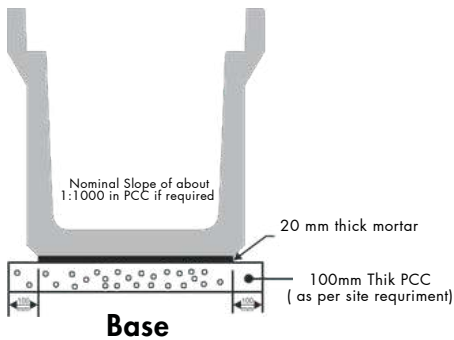
## Typical Joints Detail



## Load Carrying Capacity: 5T Wheel Load

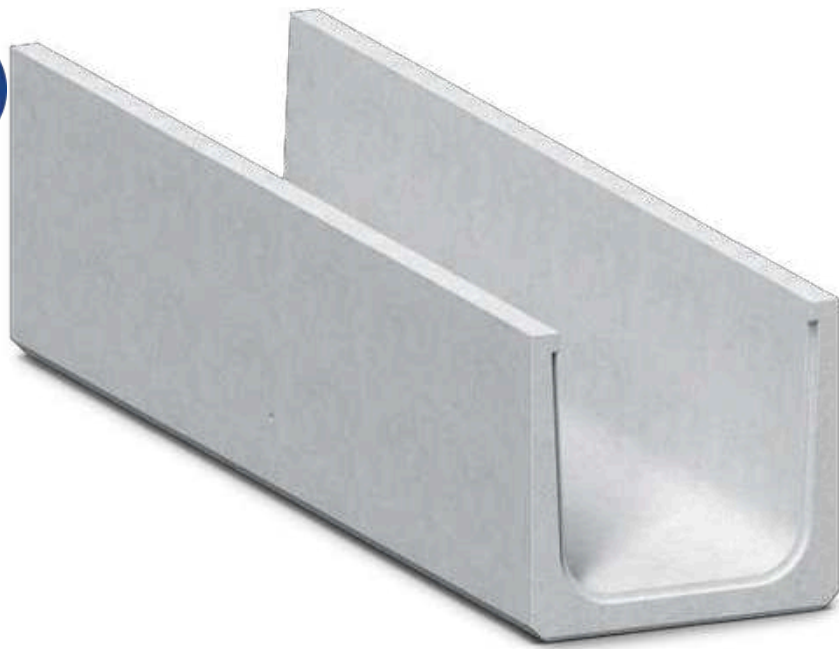


## Typical Foundation Detail

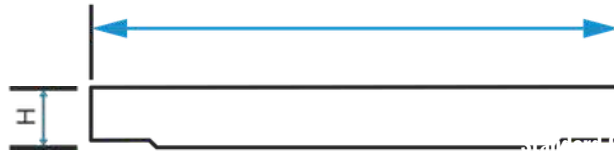
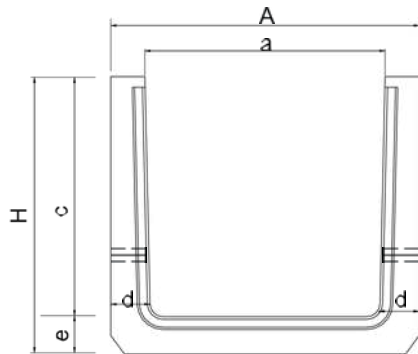


# U SHAPE DRAIN ( LIGHT )

- U Shape Drain light load up to 5T LMV load / 2.4T wheel load capacity.
- Can be used as side drain, away from road.
- USages: Storm water, cable trench, fire hydrant lines.
- Can be customized as per requirement.

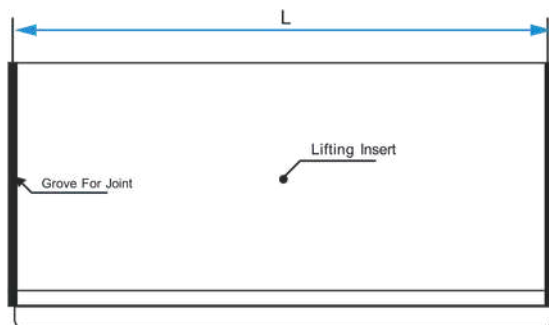


## Section

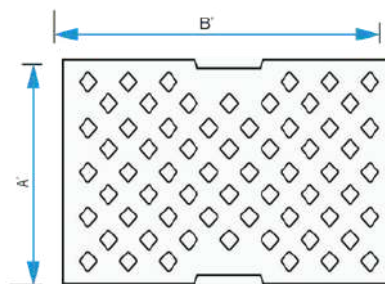


Cover Side View Cover Hole

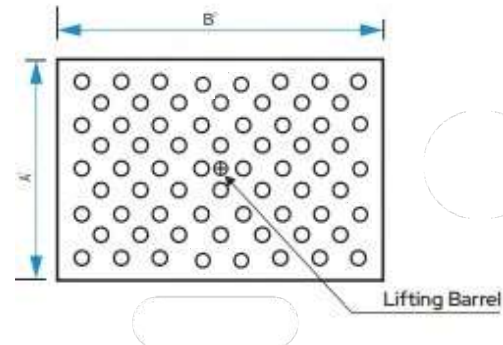
## Side View



## Standard Cover



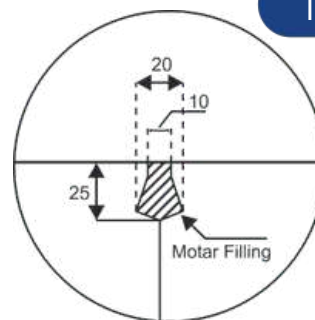
## Without Cover



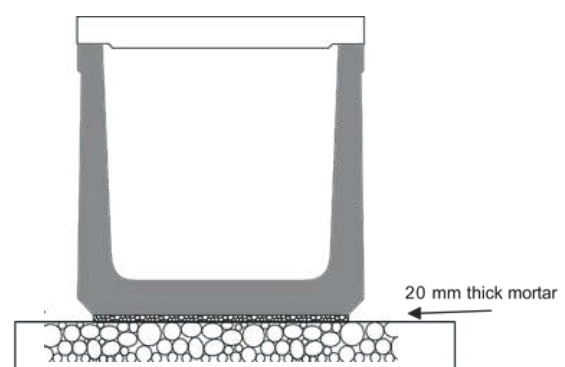
| Size (mm) |      | Dimensions of U Shape Drain (mm) |     |      |
|-----------|------|----------------------------------|-----|------|
| a x b     | L    | A                                | B   | H    |
| 300 x 300 | 2000 | 420                              | 300 | 370  |
| 450 x 450 | 2000 | 550                              | 450 | 520  |
| 600 x 600 | 2000 | 730                              | 600 | 680  |
| 750 x 750 | 2000 | 890                              | 750 | 840  |
| 900 x 900 | 2000 | 1070                             | 900 | 1010 |

| Size (mm) |  | Dimensions of U Shape Drain (mm) |     |    |
|-----------|--|----------------------------------|-----|----|
| B X H     |  | A'                               | B'  | T  |
| 300 x 300 |  | 500                              | 420 | 70 |
| 450 x 450 |  | 500                              | 550 | 70 |
| 600 x 600 |  | 500                              | 730 | 80 |
| 750 x 750 |  | 500                              | 890 | 90 |

## Typical Joints Detail



## Typical Foundation Detail

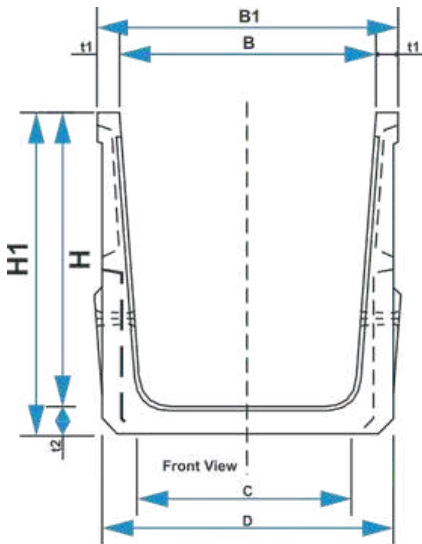


# FT FLUME

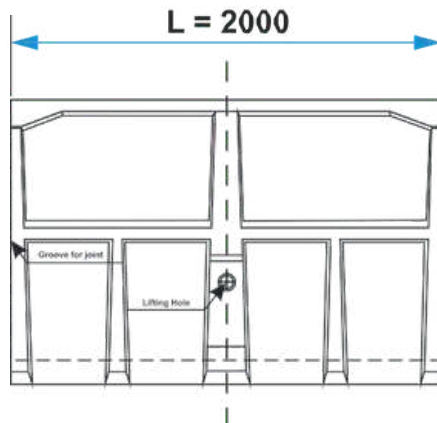
- U Shape Drains are designed for Heavy load up to 25T truck / 5T wheel load
- Drain is intended to be placed at the shoulder of the road or road crossing within truck limit of 25T.
- USages: Storm water, cable trench, fire hydrant lines, plantation.



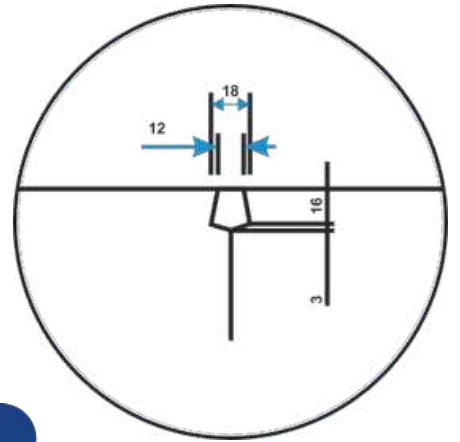
## Front View



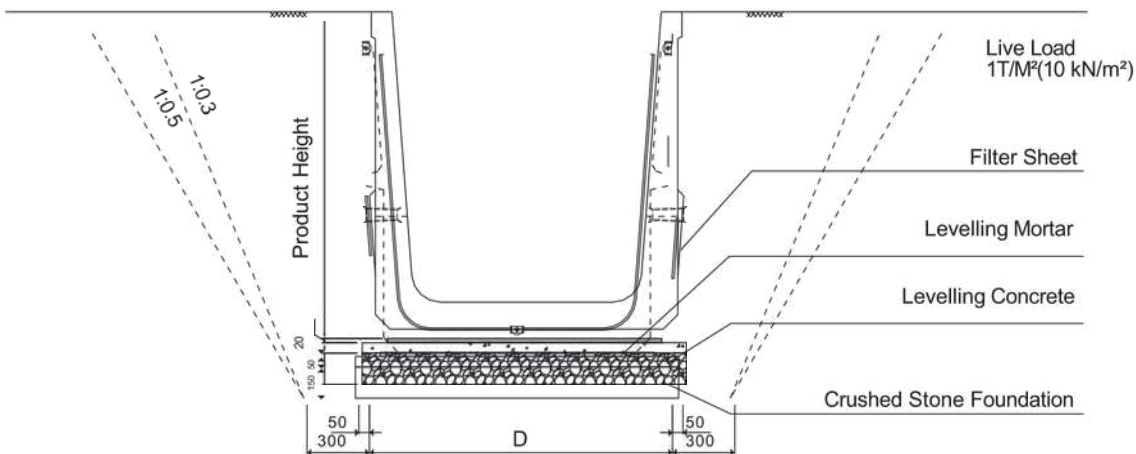
## Side View



## Over Typical Groove For Joint



## Typical Section og Ft - Flune as open strom water drain Joints Detail



**H : 900**

[illegible]

**H : 1200**

[illegible]

**H : 1300**

[illegible]

**H : 1400**

[illegible]

**H : 1500**

[illegible]

**H : 1600**

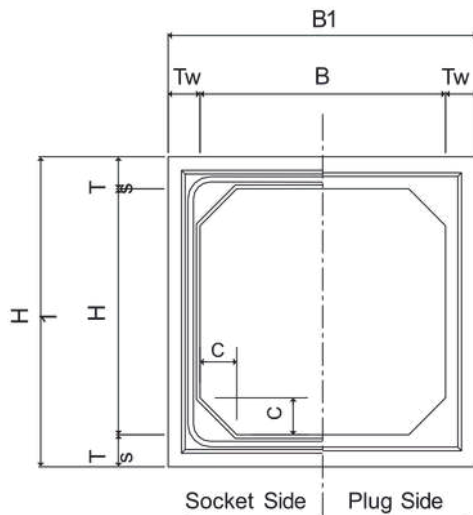
[illegible]

# PRECAST BOX CULVERT

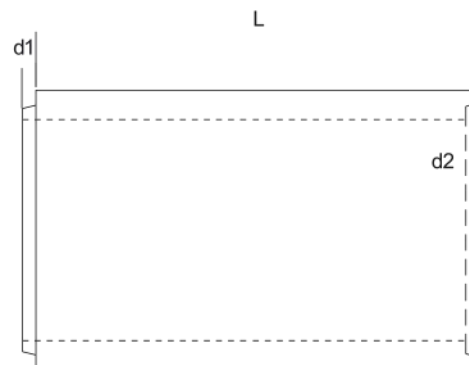
- Box culvert are designed to take 25T truckload/ 5T wheel load with earth cushion 0.2m to 3.0m. We also manufacture customize design box culvert for class 70R or any other IRC loading requirement.
- Usages: Storm water, cable trench, fire hydrant lines & road crossing.



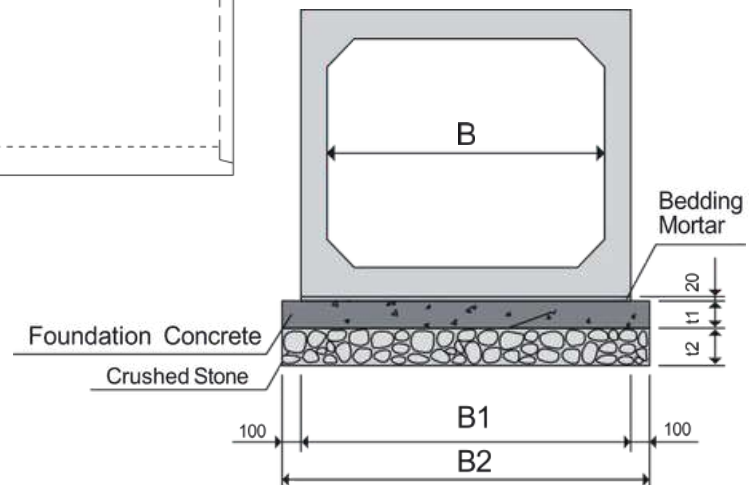
Front View



Side View

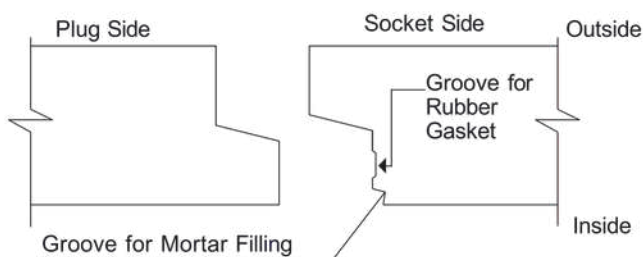


Typical Foundation Detail



| B         | Size (mm) |     |
|-----------|-----------|-----|
|           | X1        | X2  |
| 600~1000  | 110       | 160 |
| 1100~2500 | 160       | 230 |

Typical Joints Detail

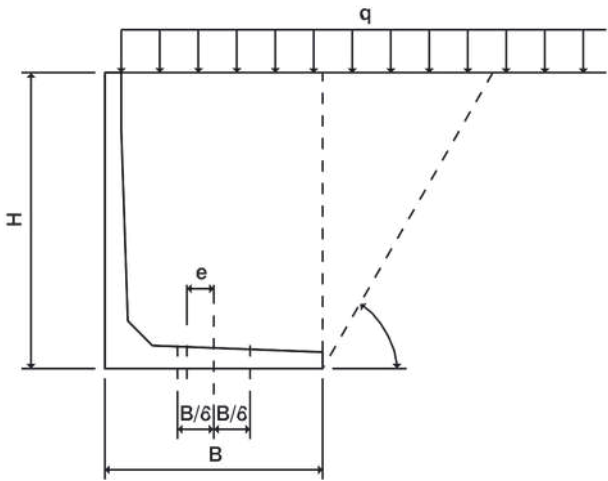


| B X H (mm) | B (mm) | B1 (mm) | H (mm) | H1 (mm) | L (mm) |
|------------|--------|---------|--------|---------|--------|
| 600x600    | 600    | 780     | 600    | 840     | 2000   |
| 800x800    | 800    | 1060    | 800    | 1060    | 2000   |
| 800x900    | 800    | 1060    | 900    | 1160    | 2000   |
| 1000x1000  | 1000   | 1260    | 1000   | 1260    | 2000   |
| 1200x1200  | 1200   | 1460    | 1000   | 1260    | 2000   |
| 1200x1400  | 1200   | 1460    | 1400   | 1600    | 2000   |
| 1500x1400  | 1500   | 1760    | 1400   | 1700    | 2000   |
| 2000x2000  | 2000   | 2320    | 2000   | 2360    | 2000   |
| 2500x2500  | 2500   | 2900    | 2500   | 2940    | 2000   |

- Plug & Socket Joint
- Flange Bolt Connection (Available in Selected Sizes)
- Sealing Material : Rubber Gasket

# EARTH RETAINING WALL

- 3gl Infratech manufactures high quality smooth finished Retaining & Compound Wall of different height or customized as per requirement.

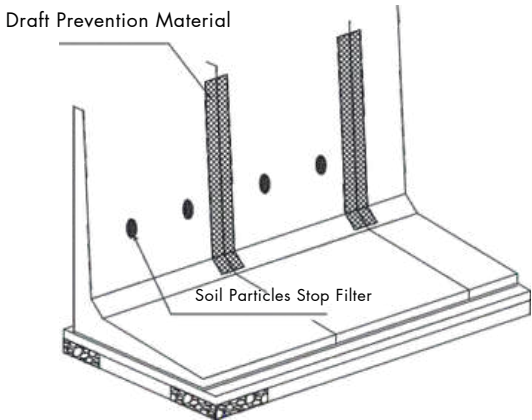
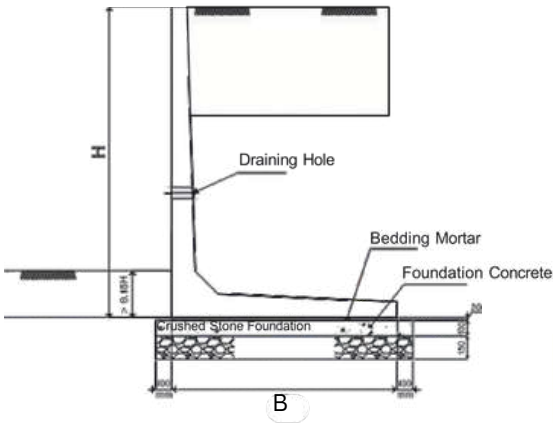


- Reinforced Concrete Unit Weight
- Unit Weight of soil
- Angle of internal friction of soil
- Overburden load
- Sliding safety factor
- Eccentricity (for overturning)

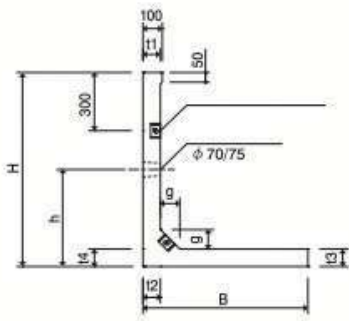
- $Y_c = 24.5 \text{ kN/m}$
- $Y_s = 19 \text{ kN/ms}$
- $\phi = 30^\circ$
- $q = 10 \text{ kN/m}^2$
- $F_s \geq 1.5$
- $|\text{e}| \leq B/6$

| Height (mm) | Dimensions |     |     |     |     |     |      |      |
|-------------|------------|-----|-----|-----|-----|-----|------|------|
| A           | B          | t1  | t2  | t3  | t4  | g   | h    | l    |
| 600         | 680        | 70  | 70  | 70  | 70  | 100 | 300  | 2000 |
| 800         | 760        | 80  | 80  | 80  | 80  | 100 | 400  | 2000 |
| 1000        | 850        | 90  | 90  | 90  | 90  | 100 | 500  | 2000 |
| 1200        | 970        | 100 | 100 | 100 | 100 | 120 | 600  | 2000 |
| 1400        | 1090       | 100 | 120 | 100 | 120 | 120 | 700  | 2000 |
| 1600        | 1210       | 100 | 130 | 100 | 130 | 150 | 800  | 2000 |
| 1800        | 1330       | 100 | 140 | 100 | 140 | 150 | 800  | 2000 |
| 2000        | 1450       | 100 | 150 | 100 | 150 | 150 | 800  | 2000 |
| 2250        | 1600       | 100 | 170 | 100 | 170 | 180 | 900  | 2000 |
| 2500        | 1750       | 100 | 180 | 100 | 180 | 180 | 900  | 2000 |
| 2750        | 1900       | 100 | 200 | 100 | 200 | 200 | 1000 | 2000 |
| 3000        | 2050       | 100 | 220 | 100 | 220 | 220 | 1000 | 2000 |

## Typical Foundation Detail

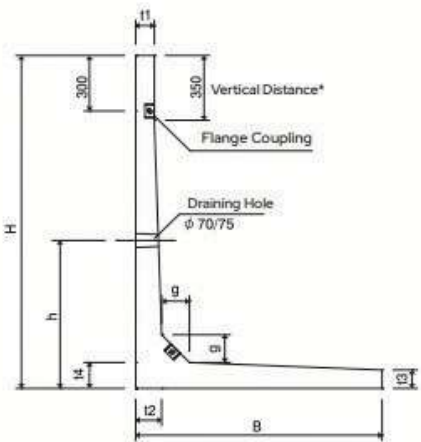


$H = 600 - H = 1000$



Section

$H = 1200 - H = 3000$



Section

## OUR PRODUCTS



**U SHAPE DRAIN  
( HEAVY )**



**U SHAPE DRAIN  
( LIGHT )**



**FL FLUME**



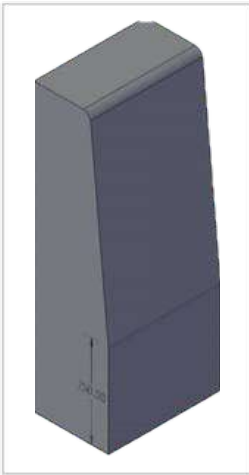
**PRECAST BOX  
CULVERT**



**EARTH RETAINING  
WALL**



# Kerb Stone



775 x 300 x 200



200 x 300 x 75 mm



300 x 300 x 75 mm



300 x 300 x 100 mm



300 x 300 x 150 mm



380 x 300 x 100 mm



380 x 300 x 100 mm



300 x 450 x 75 mm



300 x 450 x 100 mm



450 x 300 x 100 mm



480 x 300 x 150 mm



370 x 300 x 150 mm



290 x 250 x 200 mm



315 x 250 x 200 mm



Water Channel

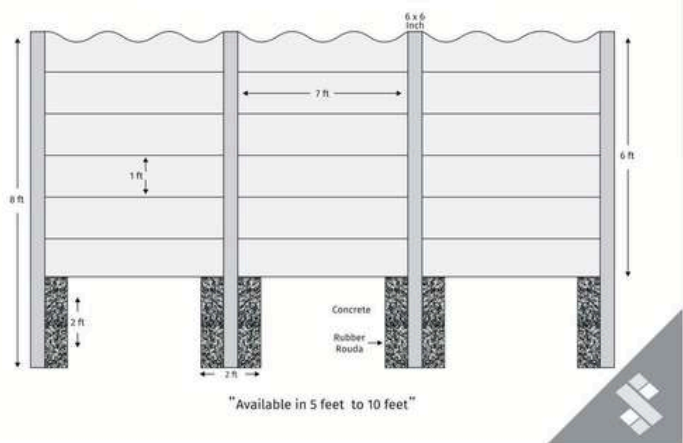
600 x 300 x 100 mm

# Paver Block



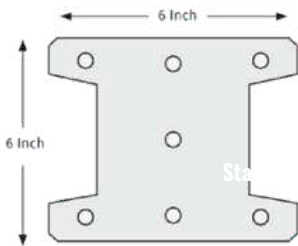
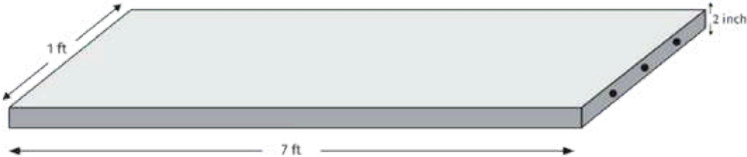
# Compound Wall

Basic Design of 6ft Prefabricated Folding Compound Wall



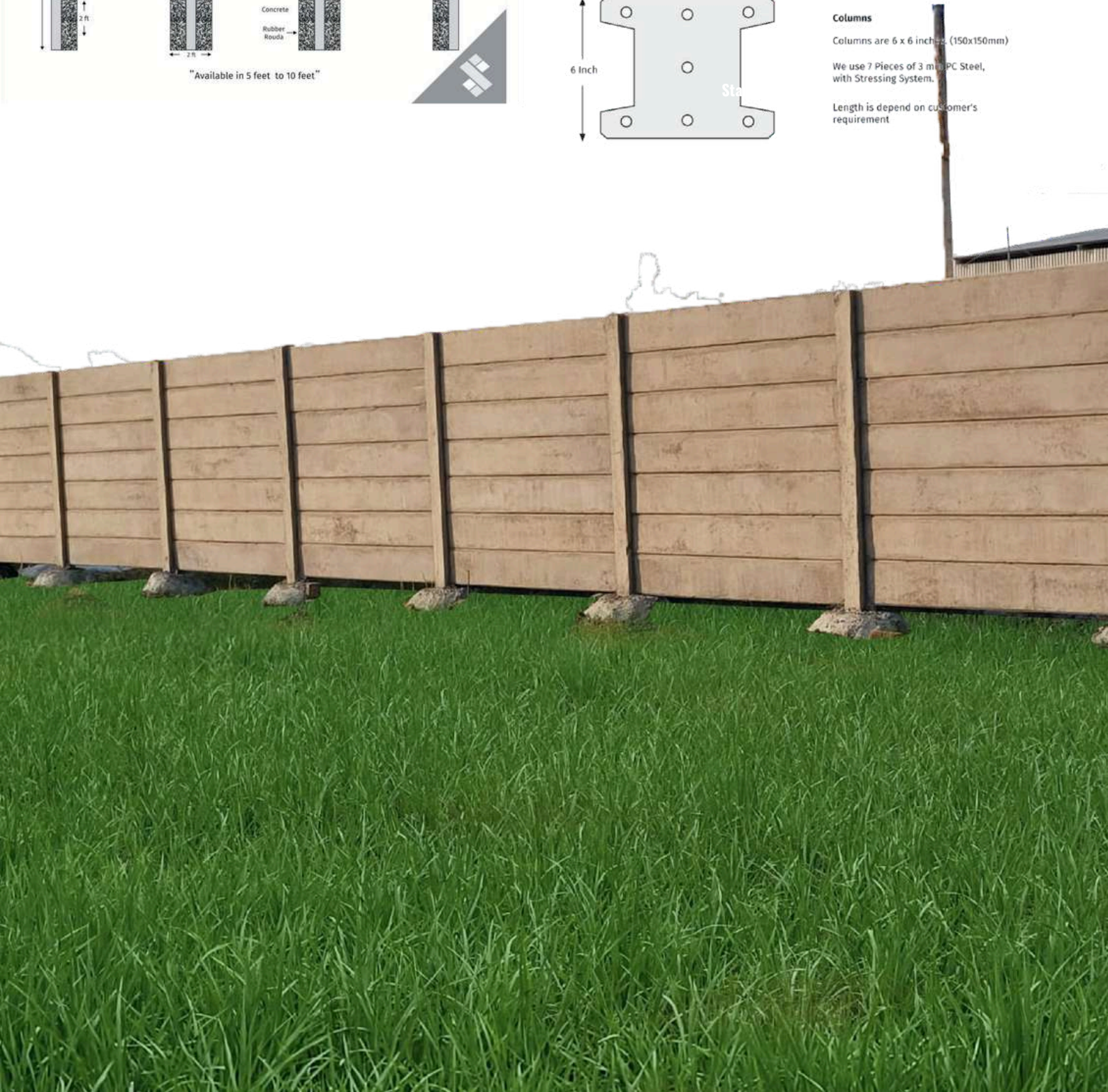
**Cement Sets**

Length 7 Feet (2100mm)  
Height 1 Feet (300mm)  
Width 2 Inches (50mm)  
We Use 3 Pieces of 3mm PC steel per set, with stressing System



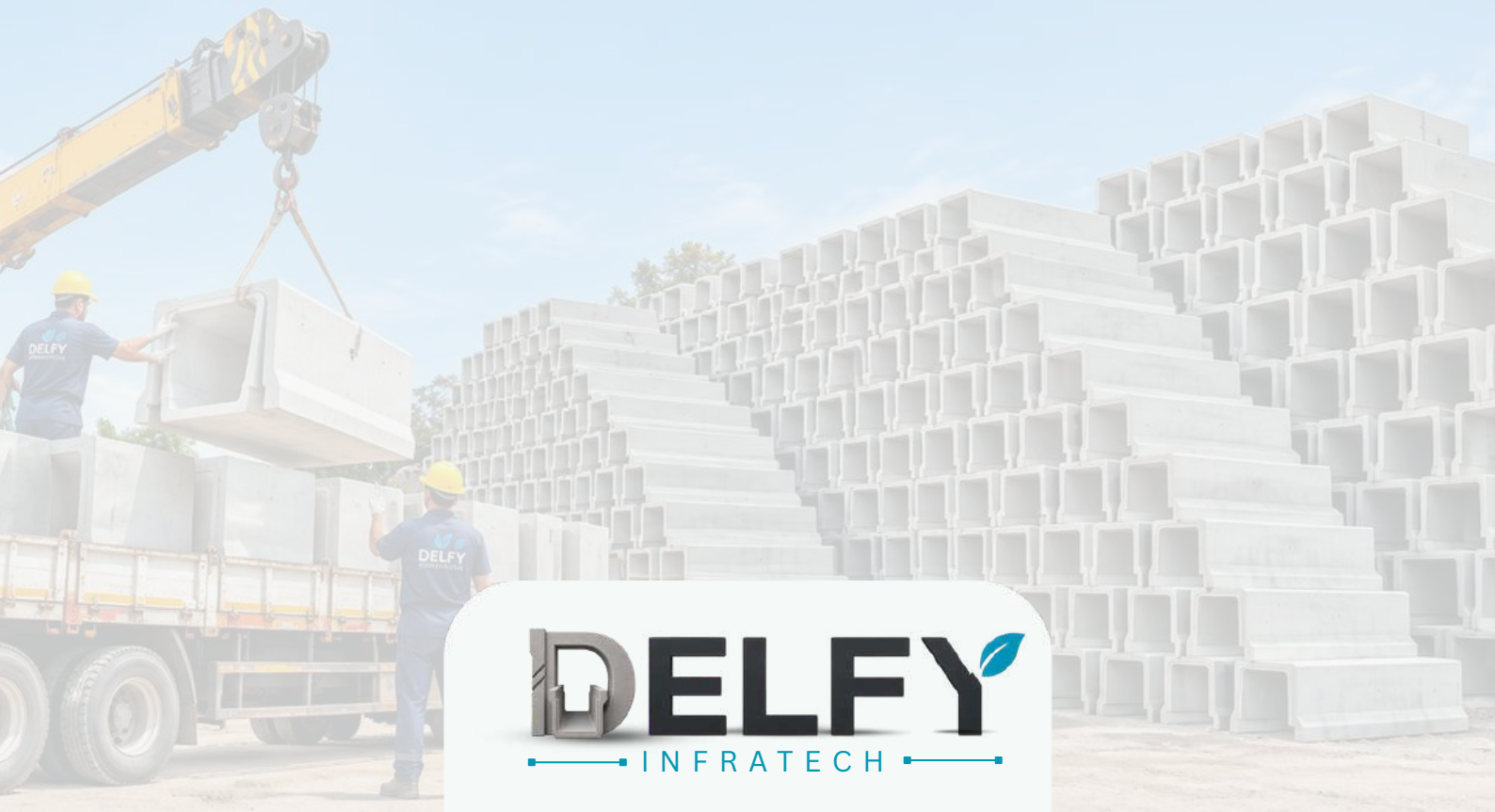
**Columns**

Columns are 6 x 6 inches (150x150mm)  
We use 7 Pieces of 3 mm PC Steel, with Stressing System.  
Length is depend on customer's requirement



# OUR CLIENTS





## Factory Address

 Near Pipodara Bridge, N. H. No-8,  
Pipodara, Surat.

 [www.delfyinfratech.com](http://www.delfyinfratech.com)

 [delfyinfratech@gmail.com](mailto:delfyinfratech@gmail.com)

## Contact Person

**Jitubhai Thummar - 98259 40725**

**Chetan Savaliya -97277 58125**

