PRO-CAST

Solid Foundations,
Strong Futures.

# PRECAST CONCRETE SOLUTIONS

## PARAPET WALL

MS
SIRIM



# INTRODUCTION

Precast concrete parapet walls are thoughtfully designed and manufactured to deliver both structural strength and aesthetic appeal, meeting high standards for functionality and appearance. Serving as essential vehicle restraint systems, they enhance the safety and visual quality of bridges, highways, flyovers, and transit systems like JKR, KTM, LRT, MRT and others. Their precast construction ensures consistent quality, durability, and efficient installation, making them ideal for modern infrastructure projects focused on both safety and design.

# FEATURES

Each parapet wall has starter bars that connect smoothly with steel bars from the deck slab. The outer part is precast using molds, while the inner section is built to align along the roadway and cast directly onto the deck slab at the project site.

## STANDARD SIZE

1250 mm X 1465 mm
1000 mm X 1260 mm

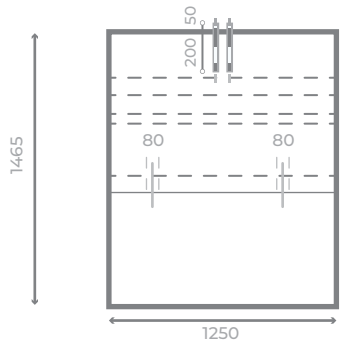
## TYPES

1. Typical Unit
2. Parapet with corbel for lighting post.

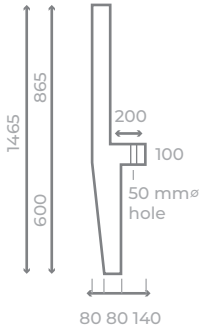
## CONCRETE STRENGHT

1. Produced by high strength concrete with 40N/mm2.

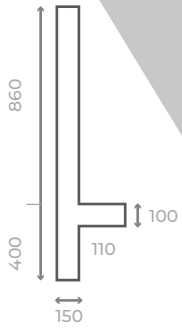
# PLAN OF PRECAST PARAPET WALL



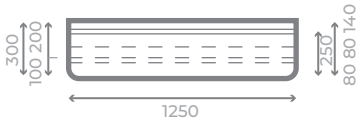

FRONT ELEVATION
TYPICAL WALL




SIDE ELEVATION
( TYPICAL UNIT )

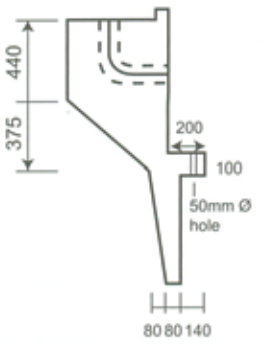



SIDE ELEVATION
(TYPICAL UNIT)

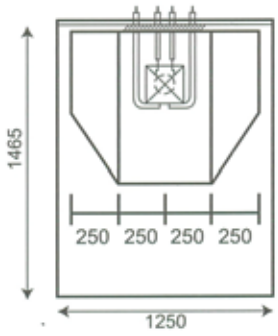



PLAN VIEW (TYPICAL UNIT)

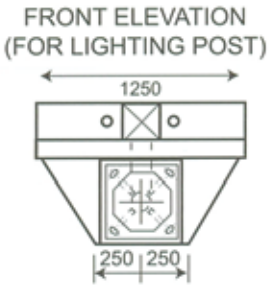
# LAMP POST SUPPORT



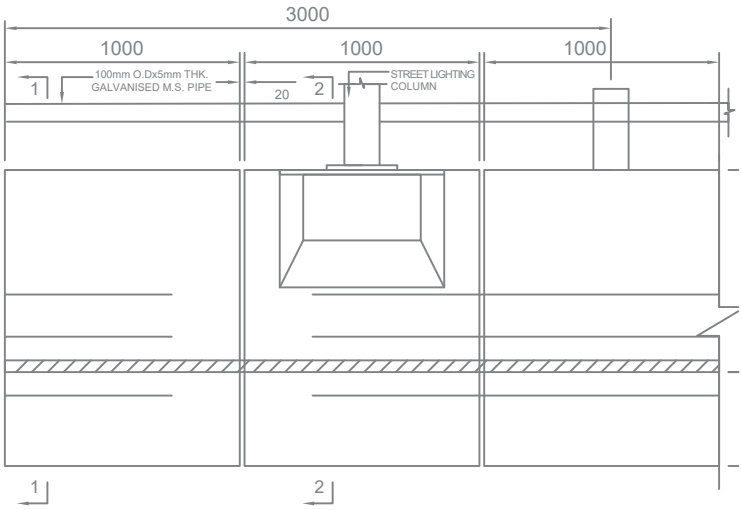

SIDE ELEVATION
(FOR LIGHTING POST)




FRONT ELEVATION
(FOR LIGHTING POST)




PLAN VIEW
(FOR LIGHTING POST)




ELEVATION
SCALE 1:20

# DETAIL
## PROCEDURES

### 1ST STEP - VERTICAL INSTALLATION OF PARAPET WALLS
Parapet walls are installed vertically, secured with starter bars and dowel bars connecting to the bridge deck slab for stability.

### 2ND STEP - INSTALLING INTERNAL SIDE MOLDS
Internal side molds are precisely positioned to prepare for in-situ concrete casting, ensuring a secure fit.

### 3RDSTEP - REMOVAL OF INTERNAL MOLDS
Once the concrete has set, the internal side molds are carefully dismantled to reveal the newly cast structure.

### 4TH STEP -POSITIONING OF LAMP POST AND HANDRAIL DOWEL BARS
Dowel bars for lamp posts and handrails are positioned to protrude, allowing for easy installation of additional structures.

### 5TH STEP - PROJECT COMPLETION
The installation is finalized, completing the parapet wall system with all components securely in place.

PRO-CAST

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