



# ROAD SAFETY SYSTEMS

**Kartikeya Industries Private Limited**

Kartikeya Industries Private Limited is a new born entity, established in the year 2013 near Sadasivpet, Telangana, with group of Technocrats. They are first generation entrepreneurs with vast experience of over 25 years in the field of Cold Forming, Light Engineering Fabrication & Trading of non-ferrous metals and acquired expertise in running large professional organisations. Kartikeya is equipped with state of art machinery for the manufacture of intricate profiles for variety of applications. The products are manufactured in conformity with Indian and International Standards.

Kartikeya has engineering and design capabilities to reach new frontiers of technical excellence coupled with committed high degree of service and quality.



ROLL FORMING MILLS ALONG WITH FABRICATION EQUIPMENT WITH A CAPACITY OF **20,000** METRIC TON PER ANNUM

Kartikeya installed latest roll forming mills along with fabrication equipment with a capacity of 20,000 MT per annum and can cater variety of cold formed sections and light fabrications. The factory is built on 13 acres of land with state of the art facilities. Each department is headed by experienced personnel to meet the stringent quality parameters and service the products in time.

## Guardrails

Guardrails are very effective road safety systems which help in protecting vehicles and the passengers in case of an accident and also serve as a good visual guide for drivers, especially in the night. Kartikeya manufactures and supplies the Guardrails which are strong, sturdy and aesthetic.

Our products conform to national and international standards like MOST, AASHTO M 180 and EN 1317- 1 AND 2. We are associated with well-known infrastructure companies such as IJM Infrastructure, Era Infra, KNR Constructions, HKR Roadways, RN Constructions, Sudharma Infra, Hyderabad/Cyberabad Expressways and others, Kartikeya offers end-to-end solutions that include manufacturing and installation.



## FEATURES

- Our tested and proven guardrails ensure minimum damage to the vehicle and its occupants.
- During collision the W beam absorbs maximum energy by flattening out and laterally restrains the vehicle from veering over.
- Prevents the vehicle from skidding back onto the carriageway by controlled exit angles by gradual deceleration and effective redirection of the vehicle back onto the road.
- Provides a good visual guide to the drivers especially in the night.
- Enables quick repairs in case of accidents.
- All components are hot dip galvanized for longer life.



## Components of Guardrails

### W Beams

- Cold Rolled Formed in thickness of 3.00 mm
- Raw material conforming to IS 5986 Grade: Fe 360/ Fe 410/ Fe 510, IS 10748 Grade II or equivalent
- Hot dip galvanized to 550 gms/sq.m

### Fasteners

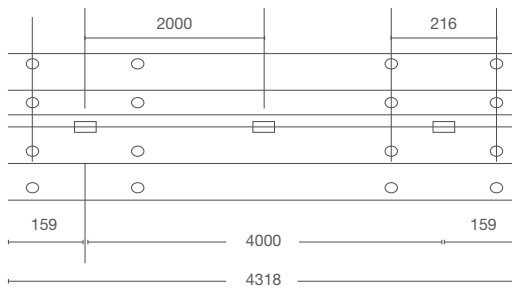
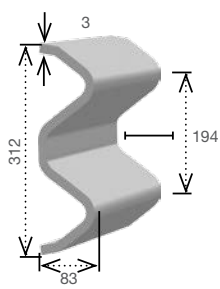
- M20 and M16 fasteners as per IS 1367 Grade 4.6/8.8
- Hot dip galvanized

### Posts & Spacer

- Cold Rolled Formed in thickness of 5.00 mm
- Raw material conforming to IS 5986 Grade: Fe 360/ Fe 410, IS 10748 Grade II or equivalent
- Hot dip galvanized to 550 gms/sq.m.

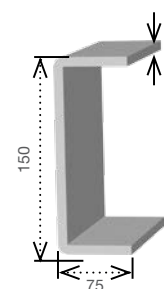
## STANDARD SPECIFICATIONS

### W Beam



TECHNICAL DATA	$I_{xx} = 1311.0 \text{ cm}^4$	$I_{yy} = 105.0 \text{ cm}^4$
	$Z_{xx} = 86.0 \text{ cm}^3$	$Z_{yy} = 25.0 \text{ cm}$
	Area = $14.45 \text{ cm}^2$	W = $11.35 \text{ kg/m}$

### Post & Spacer



### TECHNICAL DATA

$I_{xx} = 479.27 \text{ cm}^4$
$Z_{xx} = 63.9 \text{ cm}^3$
Area = $13.96 \text{ cm}^2$
$I_{yy} = 77.51 \text{ cm}^4$
$Z_{yy} = 14.45 \text{ cm}$
W = $10.96 \text{ kg/m}$

## TYPES OF BARRIERS

Metal crash barriers conforming to all major specifications like:

- Ministry of Road Transport & Highways, India (MORTH)
- American (AASHTO M 180)
- Euronorm (EN 1317 – 1&2)



Single Faced  
Single Barrier



Single Faced  
Double Barrier



Double Faced  
Single Barrier



Double Faced  
Double Barrier

## Kartikeya caters to the following industrial segments

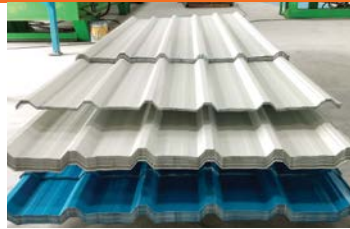
- EPC, Infrastructure, Power Projects
- Steel Buildings, Pre-Engineered Buildings
  - Highways, Road Construction
  - Railways
- Material Handling, General Engineering & Fabrication
  - Solar Mounting Structures

## Our Product Range

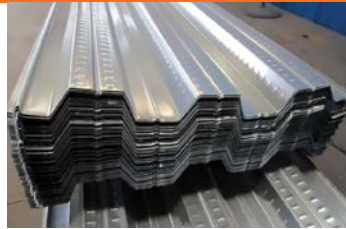
### Steel Building Components



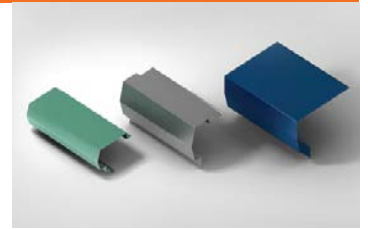
C & Z Purlins



Roofing Sheets



Decking Sheets



Roofing Accessories

### Solar Module Mounting Structures



Ground Mounted



Seasonal Tilt & Tracker Type

### Fabrication



General Engineering

### Pre Engineered Buildings



Steel Buildings



*Aspire to Excel*

## Kartikeya Industries Private Limited

# 464/16-3-V, Vasanth Nagar,  
Kukatpally, Hyderabad - 500072,  
Telangana, India.

Phone: +91 40 40208040

Mobile: +91 76610 24888, 76600 01110

E-mail: [marketing@kartikeyaindus.com](mailto:marketing@kartikeyaindus.com),

[krishnareddy@kartikeyaindus.com](mailto:krishnareddy@kartikeyaindus.com)

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