



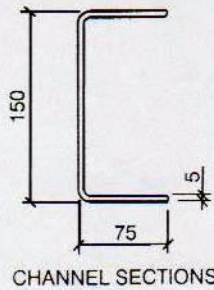
CRASH BARRIER

A photograph of a silver metal crash barrier installed along the side of a road. The barrier is supported by several vertical posts and runs parallel to the road edge. The background shows a lush green landscape with trees and grass under a clear sky.

JBFS ENGINEERING SYSTEMS

'POST / SPACER'

- Cold Roll formed 'C' channel
- Size : 150 x 75 mm and
- 5 mm thick
- Available in customised lengths
- Raw Material :
ST 42/IS 5986 Fe410 grade steel
- Hot Dip Galvanize
(550 GSM - minimum)
- Post Spacing : 1.5 to 2.0 Mtr. C/c

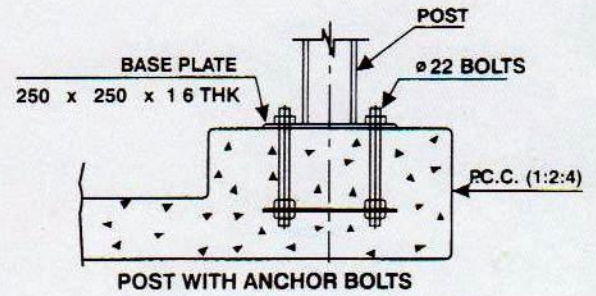
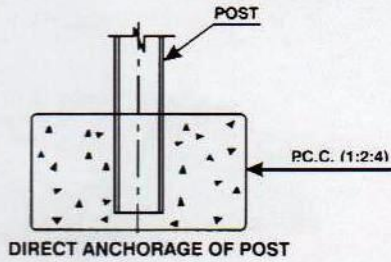


Technical Data

Section Area (cm ²)	Moment of Inertia		Z-xx (cm ³)	Z-yy (cm ³)
	I-xx (cm ⁴)	I-yy (cm ⁴)		
13.98	480.78	77.69	64.10	14.47

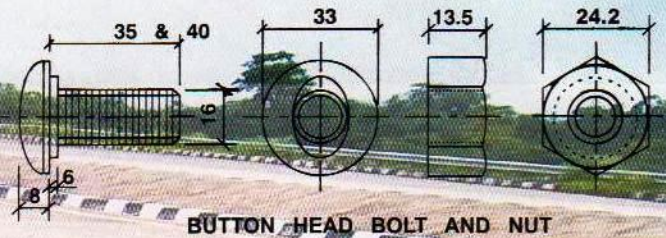


TYPICAL FOUNDATION

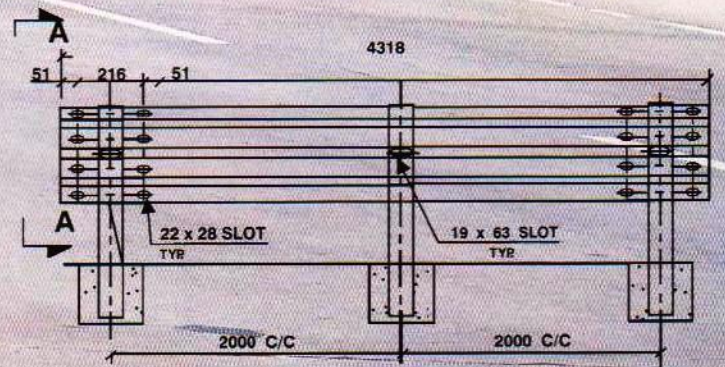
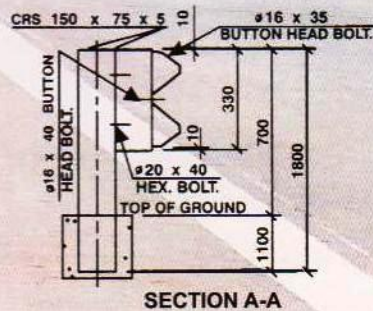


FASTNERS

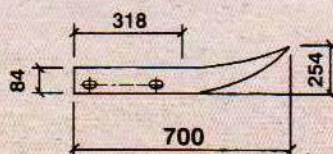
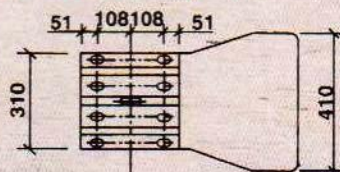
- 16 mm Dia Button Head Bolts for splice joints and for connecting 'W' 'THRIE' beam to spacer
- 20 mm Dia Hexagonal Head Bolts for connecting spacer and post
- Hot dip/Electro Galvanized -Grade 4.6 / 8.8



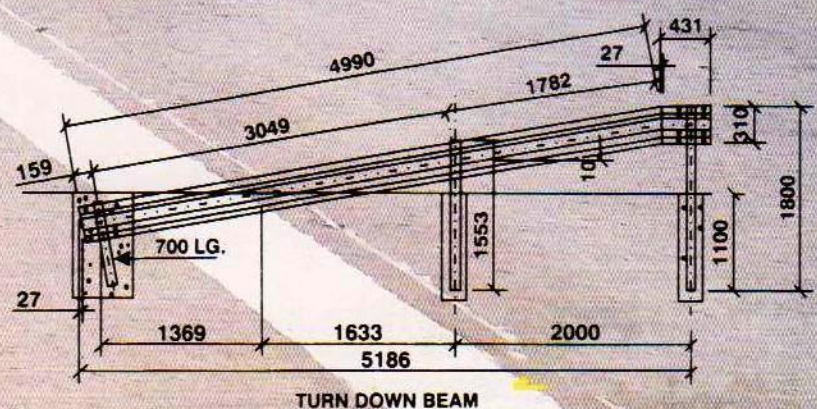
GENERAL ARRANGEMENT



END TREATMENT



FISH TAIL





GUARD RAIL

HIGHWAY METAL BEAM CRASH BARRIER

We are one of the renowned manufacturer of Metal Beam Crash Barrier. Crash Barrier / Guard Rails is now a-days used in medians on the motorways throughout instead of concrete barriers. Steel barriers severely reduce the impact of the force on the colliding vehicle using its shock absorbing features, thus minimizing the extent of risk and damage to the vehicle and its passengers.

Metal Crash Barrier (Guard Rail) is probably something most of the people don't think about, that is, still it saves their

lives. It's a proven road safety system, and is brought to you by JBFS Engg. Systems Pvt. Ltd., which undertakes design, manufacturing and installation of wide range of Guard Rails under stringent quality control. The basic function of Guard Rail is to absorb the impact energy of the colliding vehicle, thus minimizing the extent of risk and damage to the vehicle and its passengers. Besides, it prevents the vehicle from rolling down the high embankments and veering off the carriage ways. Thus Guard rails find its typical applications on Highways, Bridges and Flyovers.

Based on the guidelines issued by Ministry of Surface Transport (MOST) and other international specifications like AASHTO M180. JBFS offers "W" beam and "Thrie" beam type steel crash barrier systems.

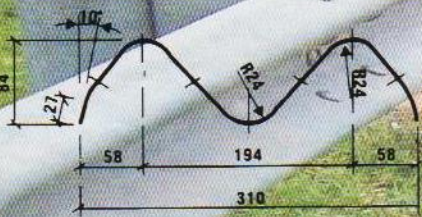
TECHNICAL SPECIFICATIONS

- Cold Roll formed
- Raw material: ST 42/IS 5986 Fe 410/510 Grade Steel
- Available in different lengths and thickness to match customer requirements
- Hot Dip Galvanized (550 GSM minimum)

'W' beam Technical Data



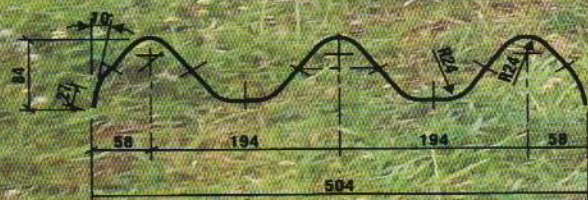
Thickness	Effective Length	Overall Length	Section Area (cm ²)	Moment of Inertia		Section Modulus	
				I-xx (cm ⁴)	I-yy (cm ⁴)	Z-xx (cm ³)	Z-yy (cm ³)
3.00 mm	4000 mm	4318 mm	14.35	1328.8	106.15	88.8	24.57



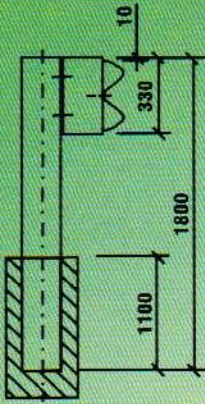
'THRIE' beam Technical data



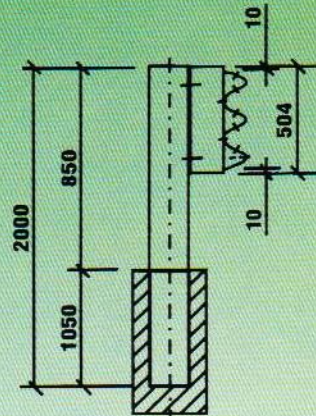
Thickness	Effective Length	Overall Length	Section Area (cm ²)	Moment of Inertia		Section Modulus	
				I-xx (cm ⁴)	I-yy (cm ⁴)	Z-xx (cm ³)	Z-yy (cm ³)
3.00 mm	4000 mm	4318 mm	23.43	5640.3	170.75	223.82	40.08



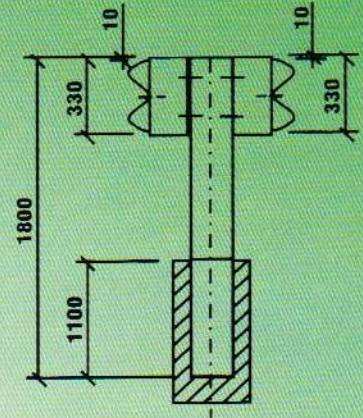
Types of Steel Crash Barriers System



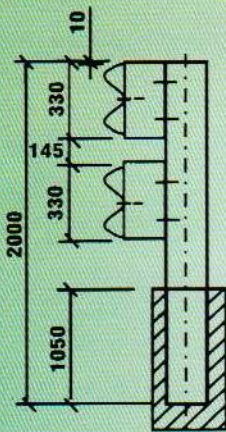
SINGLE SIDED SINGLE W - BEAM



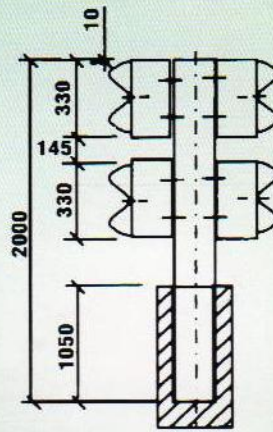
SINGLE SIDED SINGLE THRIE BEAM



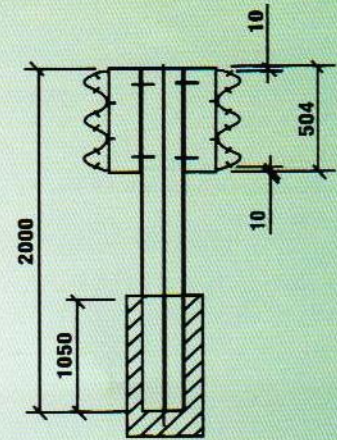
DOUBLE SIDED SINGLE W-BEAM



SINGLE SIDED DOUBLE W-BEAM



DOUBLE SIDED DOUBLE W-BEAM



DOUBLE SIDED SINGLE THRIE BEAM



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