

# Single Sided Concrete Barrier



CONCRETE WORKS



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## General

### Applications

**B**EAM CONCRETE BARRIER CAN BE USED IN MANY DIFFERENT APPLICATIONS.

**Some examples are:**

- Road construction
- General road maintenance
- Bridge repairs
- Detours and diversions
- Lane closures
- Security and mine site delineation
- Protection of crowds and pedestrians
- Building and construction site protection

### Site Conditions

**O**ur barriers must be placed on a flat, stable and compacted surface capable of being trafficked by road vehicles for short periods. The crossfall Must not Exceed 6%. Unstable surfaces such as deep mud, uncompacted sand or excessively wet surfaces are considered inappropriate. Ideally the surface should be paved and must be free of swales, ditches or other irregularities. The minimum width of stable ground behind the barriers must not be less than the expected deflection of the barrier system.

Barriers must be placed at the same level as the travelled lane and must not be placed in front, behind or on top of kerbing.

Barriers should (where Practicable) be placed parallel to the travelled lane and as far away from the travelled lane as possible.

Our barriers are suitable for use in all atmospheric conditions normally encountered as Australian roads without any reduction effectiveness.



## Description:

### Temporary and permanent barrier solutions

'Compact' Precast Concrete Barrier a single sided barrier and we have designed it in a compact manner which separates traffic lanes. It is designed to minimize vehicle damage in case of accidental contact, while preventing crossover and head-on collision. This compact barrier solution is quick to install and easy to replace if the barriers are damaged due to road accidents.

Product Code-**SSF2MRW**



Product Code-**SSL2MRW**



### AVERAGE VALUE TABLE

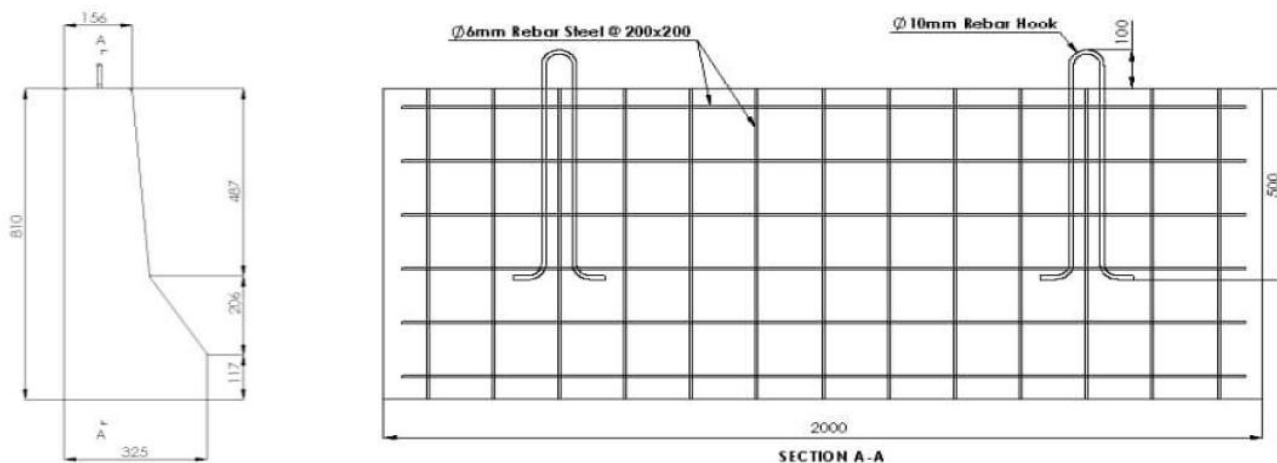
Approx. Weight	1115 kg
Compressive Strength	20N/mm <sup>2</sup>
Impact Strength	0.22 Kg.m.sec
Fire assistance	Class-A

### SIZE

Length	Height	Top	Bottom
2000mm	810mm	156mm	325mm



## Compact –Single Sided



**Handling:** Our redesign single sided barriers possess two lifting hooks on top with 325mm bottom width for easy arrangement to inserting without damaging.

**Materials:** All materials are sourced in accordance with the appropriate Standard and in accordance with the UAE performance specifications.

Concrete strength at transfer 20 N/mm<sup>2</sup>

Water-cement ratio of 0.45 Maximum

Reinforcement typically dia 10mm welded mesh.

**Design:** All units are designed in accordance with RTA. The unit design is typical to Class 3 with a limiting crack width of 0.1mm unless otherwise stated. It is the client's responsibility to provide loading data including any imposed or surcharged loading.

**Procedure:** Units are wet cast rapidly into Pacman steel molds assist with electro viber @ 100 unit/hour

**Finishes:** Faces are painted with reflective road marking paint in vertical strips of 50cm Surface marks from stacking timbers, strand runs and fork truck tine marks can be expected. Surface marks of stacking timber, strand run and mold release agent will fade out over time and use. Where a blemish free surface is required, masonry paint application is recommended. Concrete Finishing— Shall be at the option of the producer, produce a finish comparable to the steel form finish and be uniform for all sections in the contract lot.

### Trowel Finishes

The finish will be uniform and provide full grout cover to aggregates.

Some trowel marks will be visible

Some color and texture variation may be expected.

Stacking timber marks and cement blooming may be expected.

Color variation, trowel pattern and cement blooming will fade over time and weather site works

**Site Access:** Full site access free of any obstructions or trenches to all site areas is assumed unless otherwise agreed.

Access is required to both sides of barrier installation unless previously arranged at pricing stage. Delivery vehicles are to unload inside the construction site to minimize on-site handling. A Suitable hard standing surface must be provided to enable safe lifting operations for a 15 tone telehandler or crane.

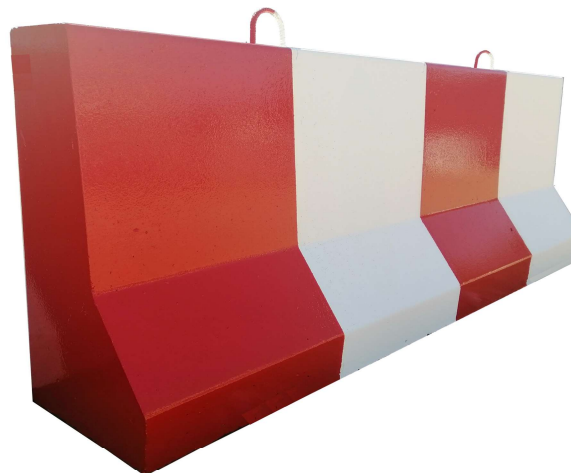
The hard standing is to extend a minimum of 4m beyond the edge of the working area.



Category	Application	Containment for
P-1: Normal Containment	Bridges carrying expressway or equivalent.	15 EN vehicle at 110 km/h, and 2)" angle of impac
P-2: Low Containment	All other bridges except bridge over railways.	15 KN vehicle at 80 kmh and 20° angle of impact
P-3: High Containment	At hazardous and high risk locations, over busy railway lines, complex interchanges, etc.	50 EN vehicle at 60 km/h and 20° angle of impact

## Barrier Test Categories

Test	Impact Velocity (km/h)	Impact Angle	Vehicle Weight (kg)
TB11	100	20	900
TB21	80	8	1300
TB22	80	15	1300
TB31	80	20	1500
TB32	110	20	1500
TB41	70	8	10000
TB42	70	15	10000
TB51	70	20	13000
TB61	80	20	16000
TB71	65	20	30000
TB81	65	20	30000





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