



Stock Code: CBS120200



# SafeSite Facilities

## *TVCB Barrier*

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Specification Sheet

**safesite**<sup>®</sup>  
F A C I L I T I E S

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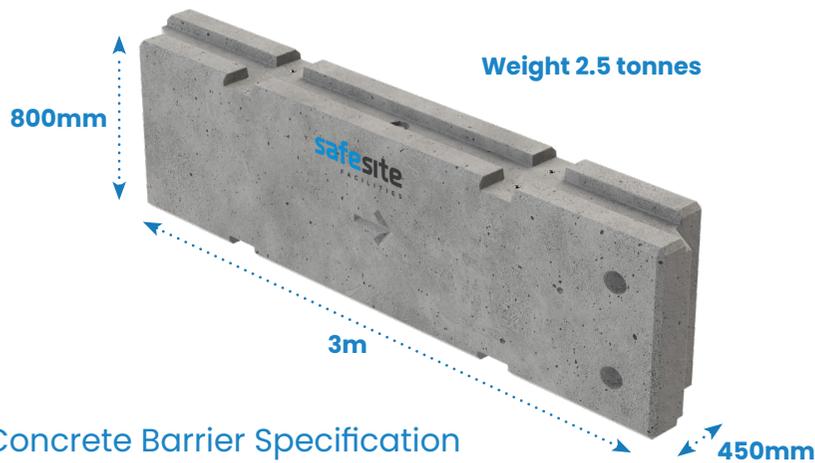
## TVCB Barrier

TVCB stands for Temporary Vertical Concrete Barrier and relates to our crash tested highway barrier system.

Designed to deflect errant vehicles travelling at speeds of up to 70mph, this system is ideal for protecting road workers and drivers from injury.

A cost-effective option for traffic-risk safety, Temporary Vertical Concrete Barriers (A.K.A. V28 Concrete Barriers) offers a highly robust but non-permanent solution for creating safe traffic zones and assisting with road-side risk management. Each 2500kg concrete block also offers a pre-cast arrow, allowing deployment to also direct traffic flow.

These pre-cast, superior concrete barriers are conjoined using M24 diameter high tensile bolts and can be attached to the carriageway. This interlocking system means that continuous barriers can be created, whilst the concrete construction offers robust anti-tampering, weather-resistant security.



### TVCB Concrete Barrier Specification

Measurements in mm

Length	Width	Height	Weight*	Product ID
3000	450	800	2.5 tonnes	CBS120200

*Approximate weight\**

## Key Features

- > Fully interlocking crash tested system
- > Low deflection maximises available working area
- > Ideal for pedestrian and road works protection
- > When placed in a line they form a continuous concrete wall
- > Delivery and installation nationwide day and night
- > Provides safe separation of opposing traffic streams
- > Prevent unauthorised vehicular access
- > Adjoined using M24 diameter high tensile bolts
- > Creates a safe working area for your work force
- > Crash tested for vehicles travelling up to 70 mph

Strengthened by internal steel rebar



TVCB slopping end section





## TVCB Crash Tested

The TVCB barrier is designed to bring an errant vehicle to a controlled stop.

The barriers strength is fully tested by TRL and has achieved both standard:  
**BS EN1317 – N1 50 MPH and BS EN1317 – N2 70 MPH**

Deflects errant vehicles up to 70mph\*



\*Detailed speed is relevant to specific test scenario

### Crash Test Results Under These Specific Conditions

Containment Level	Test Vehicle	Test Speed	Angle	Test Deflection	Working Width
N1	1500kg Car	50mph / 80kph	20 Deg	0.36m	W3
N2	1500kg Car	70mph / 110kph	20 Deg	0.39m	W3

## Summary Of Crash Test Report

The lowest deflection under impact of any current temporary safety barrier system.

## Key Features

### Vehicle

- > Velocity and angle values were within tolerance limits
- > The vehicle did not breach the device
- > The vehicle did not leave the permitted CEN box
- > The vehicle did not roll over within the test area
- > No part of the vehicle was detached

### Device

- > No part of the barrier penetrated the interior of the vehicle.
- > No part of the barrier was ejected

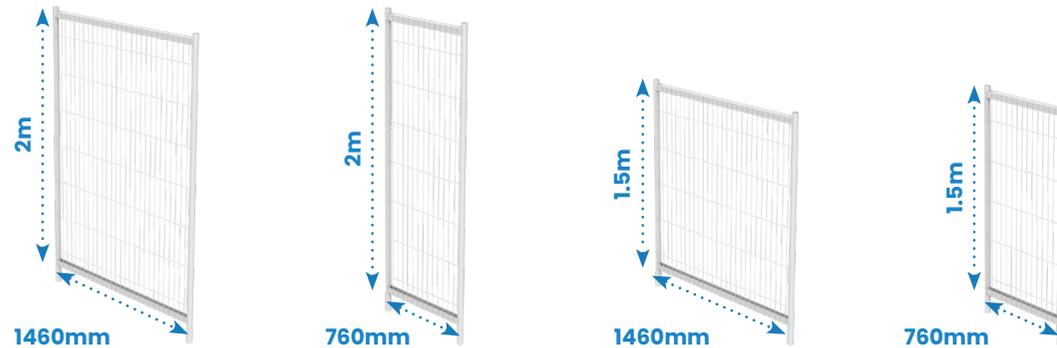




## TVCB Fence Accessory

An added advantage of the TVCB barrier is the fact that it has a robust yet easy to install anti-climb fence unit, the fence slot directly into feet which bolt directly onto the top of the barrier.

A fence panel can often be the perfect accessory when securing valuable items within your site, once installed the fence is very difficult to climb due to its anti-climb mesh construction.



### Mesh Fence Specification

Measurements in mm

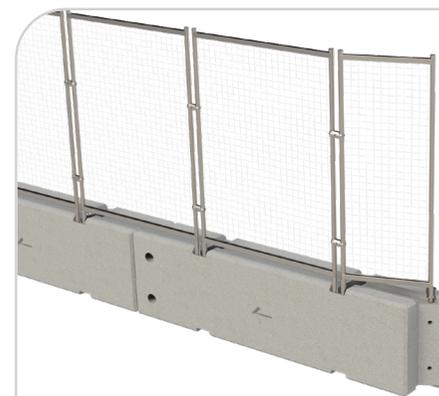
Construction	Length	Width	Height	Weight (kg)*	Product ID
Standard	1460	35	2000	8	CBS120250
Heavy Duty	1460	35	2000	9	CBS120260
Standard	760	35	2000	6	CBS120280
Heavy Duty	760	35	2000	6.5	CBS120290
Standard	1460	35	1500	7	CBS120310
Heavy Duty	1460	35	1500	8	CBS120320
Standard	760	35	1500	5	CBS120350
Heavy Duty	760	35	1500	5.5	CBS120360

Approximate weight\*

## Key Features

- ▶ Easy to install temporary anti climb mesh fence
- ▶ Fence accessory extends overall height to 2902mm
- ▶ Non-permanent fixings
- ▶ Panels link via two couplers
- ▶ Perfect for crowd control at public events
- ▶ Two sizes of fence plus end panel available
- ▶ Lightweight for easy transporting and handling
- ▶ Fence panel can be installed by just one person
- ▶ Prevent unauthorised site access

Mesh fence installed onto TVCB barriers



Foot plate connection pad





## TVCB Barriers In Action

*Here are some examples of our heavy duty TVCB Barriers doing what they do best!*

The TVCB's are a great solution for traffic segregation for when your workforce needs protecting from vehicular hazards. In addition to being a robust unit the TVCB barriers can provide a high level of perimeter security with installation of the anti climb steel mesh fence.

As you will see from the examples to the right, the TVCB Barrier is first choice for many when it comes to protecting the public during events where vehicles may be traveling at high speed.

They can also be deployed to offer additional impact resistance to weaker or older constructions, such as bridge piers or previously damaged permanent roadside barriers.

With their weight of 2500 kg each, TVCB barriers can also be used to offer on-site stability from their optional use as counterweights for piling rigs, scaffolding, suspended shuttering and similar structures.

TVCB's with fence securing highway



TVCB's creating safe zone for workers



TVCB's protecting spectators



TVCB's form protective drag race strip





## Technical Details

TVCB Barrier

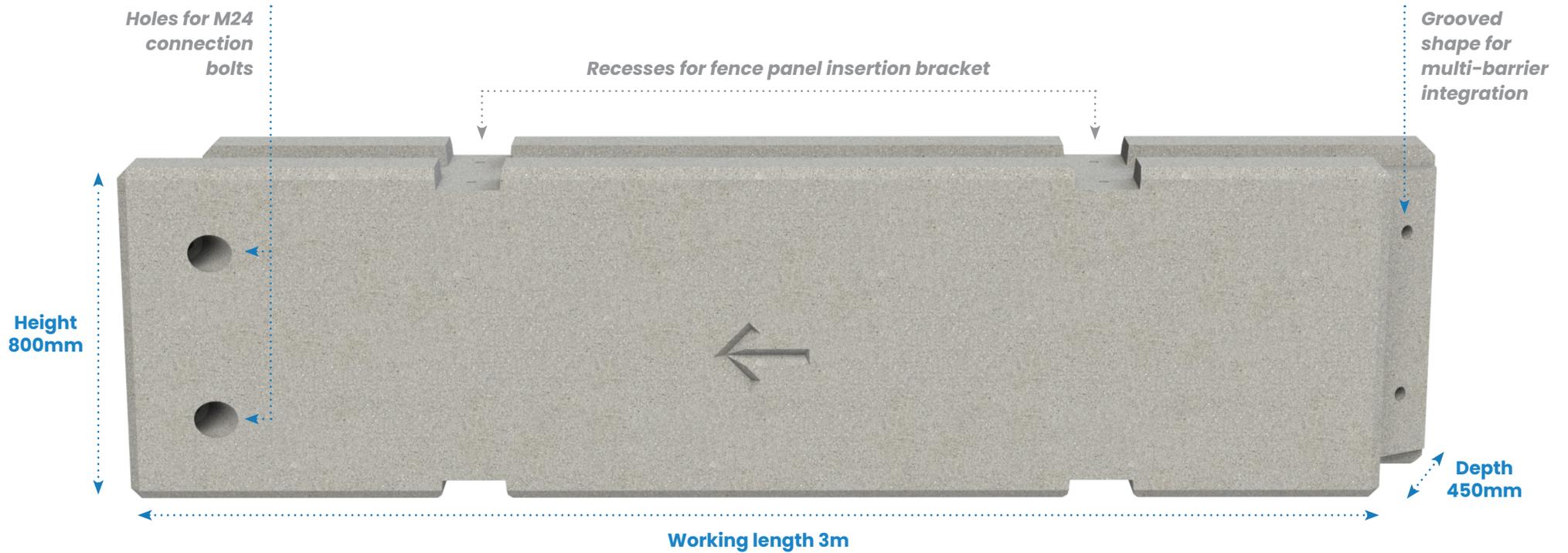
5 tonne lifting clutch



M24 diameter high tensile bolt



Fence panel bracket





Unit 1, Martello Enterprise Centre, Courtwick Lane,  
Littlehampton, West Sussex, BN17 7PA



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