

TVCB & Heavy Duty Mesh Fencing

Specification Sheet

CBS120265

13/11/26

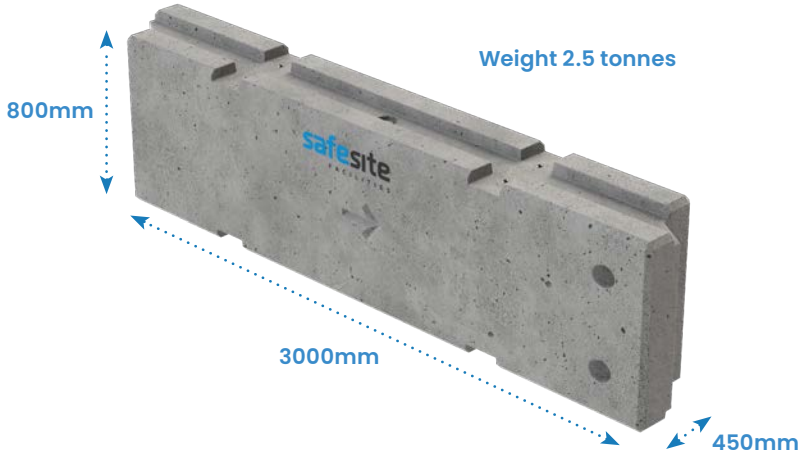
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TVCB

TVCB stands for Temporary Vertical Concrete Barrier, a crash-tested highway safety system designed to protect both road workers and motorists.

Engineered to withstand impacts from vehicles traveling up to 70 mph, TVCBs offer a reliable, cost-effective solution for managing traffic risks. Also known as V28 Concrete Barriers, these robust yet temporary units help create safe work zones and improve roadside safety.

Each 2,500kg precast concrete block includes a directional arrow to guide traffic during deployment. The barriers interlock using M24 high-tensile bolts, forming a secure, continuous system that can be anchored to the carriageway. Their durable construction resists tampering and harsh weather, making them a trusted choice for temporary traffic control.



TVCB Barrier Specification

Description	Size (mm)	Weight (kg)
CBS120200 - TVCB Barrier	H800 x W3000 x D450	2500
CBS120240 - TVCB Tapered End Section	H800 x W3000 x D450	1700

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
- Standard & heavy duty fencing available



Strengthened by internal rebar



TVCB slopping end section

For lifting use a 5 tonne Lifting clutch – 4 threaded sockets for lifting hooks

Technical Details

TVCB Barrier

Description	Size (mm)	Weight (kg)
CBS120200 - TVCB Barrier	H800 x W3000 x D450	2500
CBS120240 - TVCB Tapered End Section	H800 x W3000 x D450	1700
CBS129938 - TVCB M24 x 340mm Hex Bolt	H24 x W340	0.1
CBS129945 - TVCB M24 Hex Nut	H24 x W15	0.1
CBS129942 - M24 x 12mm Form A Washer	H24 x W12 x D2	0.1
CBS129900 - 5 Tonne Lifting Clutch	-	-



CBS129900 - 5 tonne lifting clutch



M24 diameter high tensile bolt



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**



Crash Test Results Under These Specific Conditions

Containment Level	Test Vehicle	Test Speed	Test Deflection	Working Width
N1	1500kg Car	50mph / 80kph	0..8m	W2
N2	1500kg Car	70mph / 110kph	1.2m	W4

Summary Of Crash Test Report

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

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

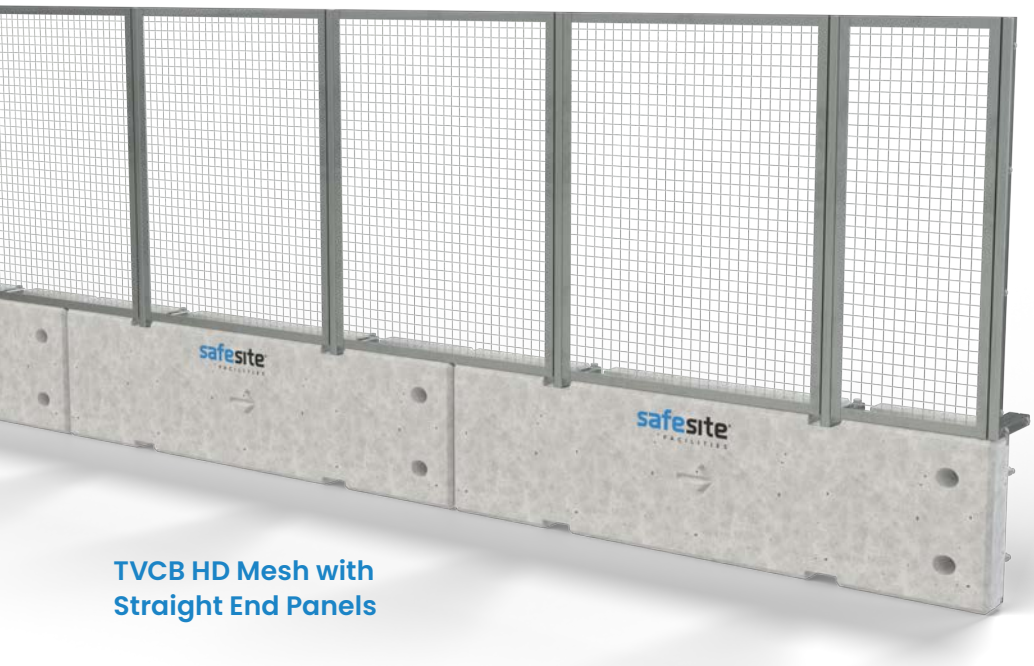
TVCB Heavy Duty Mesh Fencing

Our HD TVCB Fencing is designed with the same ethos as the TVCB itself; heavy-duty construction, durability and long-lasting performance.

Featuring fully framed 2-inch square mesh and secure bolted connections, it provides a robust, reliable fencing solution to compliment Temporary Vertical Concrete Barriers.

The 1835mm fence provides an overall installed height of 2635mm when fitted to the concrete barriers, creating a secure boundary that helps restrict unauthorised access to construction and operational roadworks sites.

Designed for demanding outdoor conditions, the fencing features a hot-dip galvanised solid steel frame for corrosion protection and long-term durability. Straight square end and angled end options are also available to suit different site layouts and requirements.



TVCB HD Mesh with Straight End Panels

Key Features

- Heavy duty 2-inch square mesh for a durable fence construction
- Components bolt firmly together without need for separate fence couplers
- 1835mm fence height and overall height of 2635mm with the concrete barrier
- Hot-dip galvanised finish with corrosion protection
- Suitable for more permanent, long term site projects
- Option for powder coated HD fence panels
- Option between straight square-edge or angled end panels, designed for motorway entrance and exit layouts



Option for Angled HD Mesh for End Panels

Description	**Size** (mm)	**Weight** (kg)
CBS120265 - TVCB HD 2" Mesh Fencing Panel	H1835 x W1445 x D50	21
CBS120295 - TVCB HD 2" Mesh End Fencing Panel	H1835 x W757 x D50	15
CBS120374 - TVCB HD Fence Post	H1885 x W370 x D50	9
CBS120376 - TVCB HD Fence End Post	H1835 x W370 x D50	9
CBS120398 - TVCB HD Fencing End Connector	H850 x W310 x D50	5
CBS120370 - TVCB HD 2" Mesh End Angle Panel (Left Hand)	H1885 x W2500 x D50	24
CBS120372 - TVCB HD 2" Mesh End Angle Panel (Right Hand)	H1885 x W2500 x D50	24

TVCB Heavy Duty Mesh Fencing Straight & Angled Ends

We offer straight and angled sloped end panels to suit different site layouts, including motorway entrances and exits.

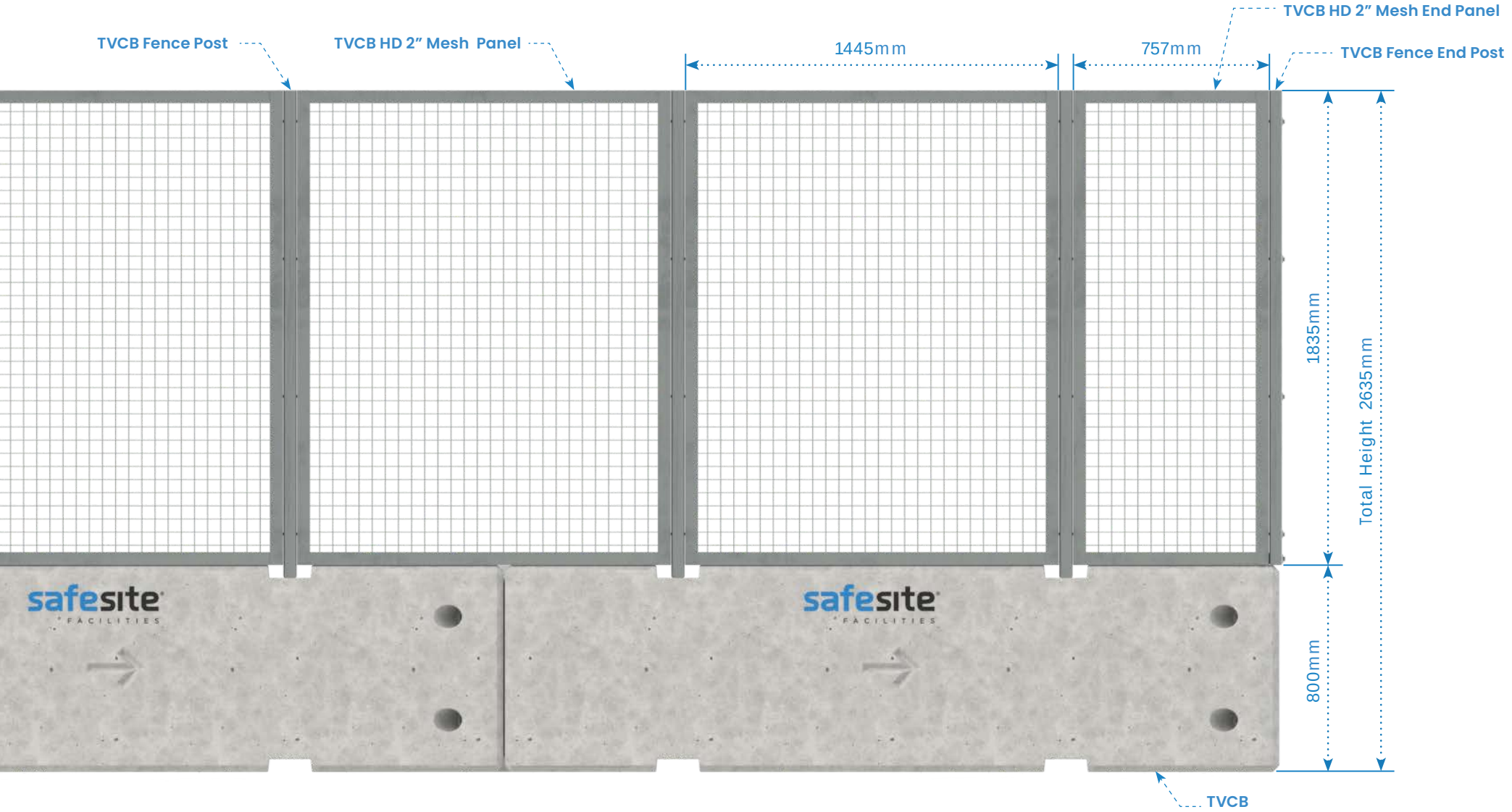
This heavy-duty option is ideal for boundaries that need to remain in place with minimal maintenance, or for projects where the barriers will be reused multiple times. Bolted connections securely fasten the fencing components together without the need for separate fence couplers, providing a robust and reliable connection. The hot-dip galvanised finish offers long-lasting corrosion protection for outdoor use, while powder coating is available on request for projects requiring a specific colour finish.

Installation

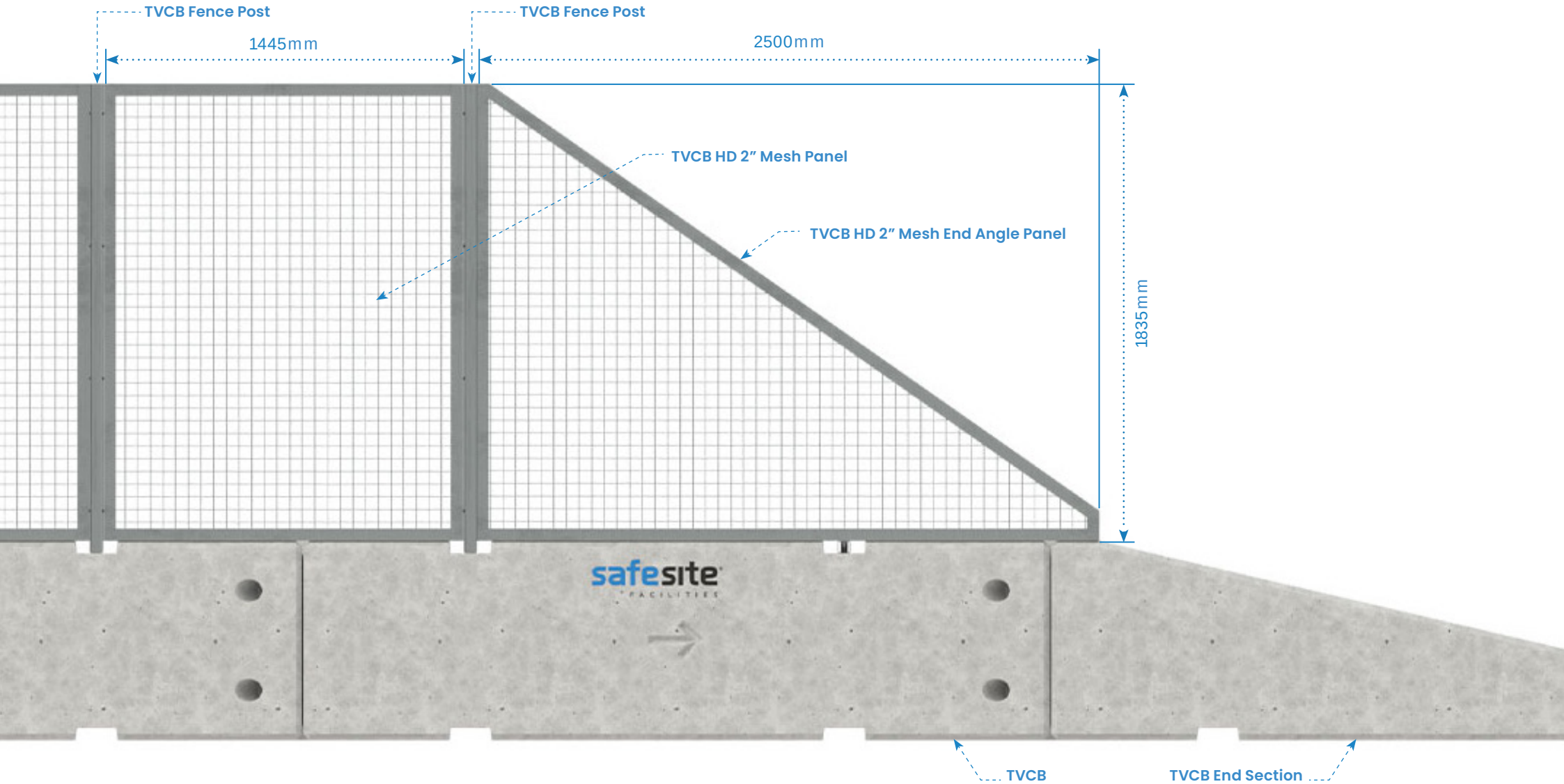
The fencing is simple and straightforward to install, with the fence posts bolted directly to the concrete barriers and mesh panels secured between them. Requiring no specialist tools, or separate fence couplers, the system provides a robust, secure and clearly defined perimeter with minimal installation complexity.



Technical Details - HD Fencing & Straight End



Technical Details - HD Fencing & Angled End



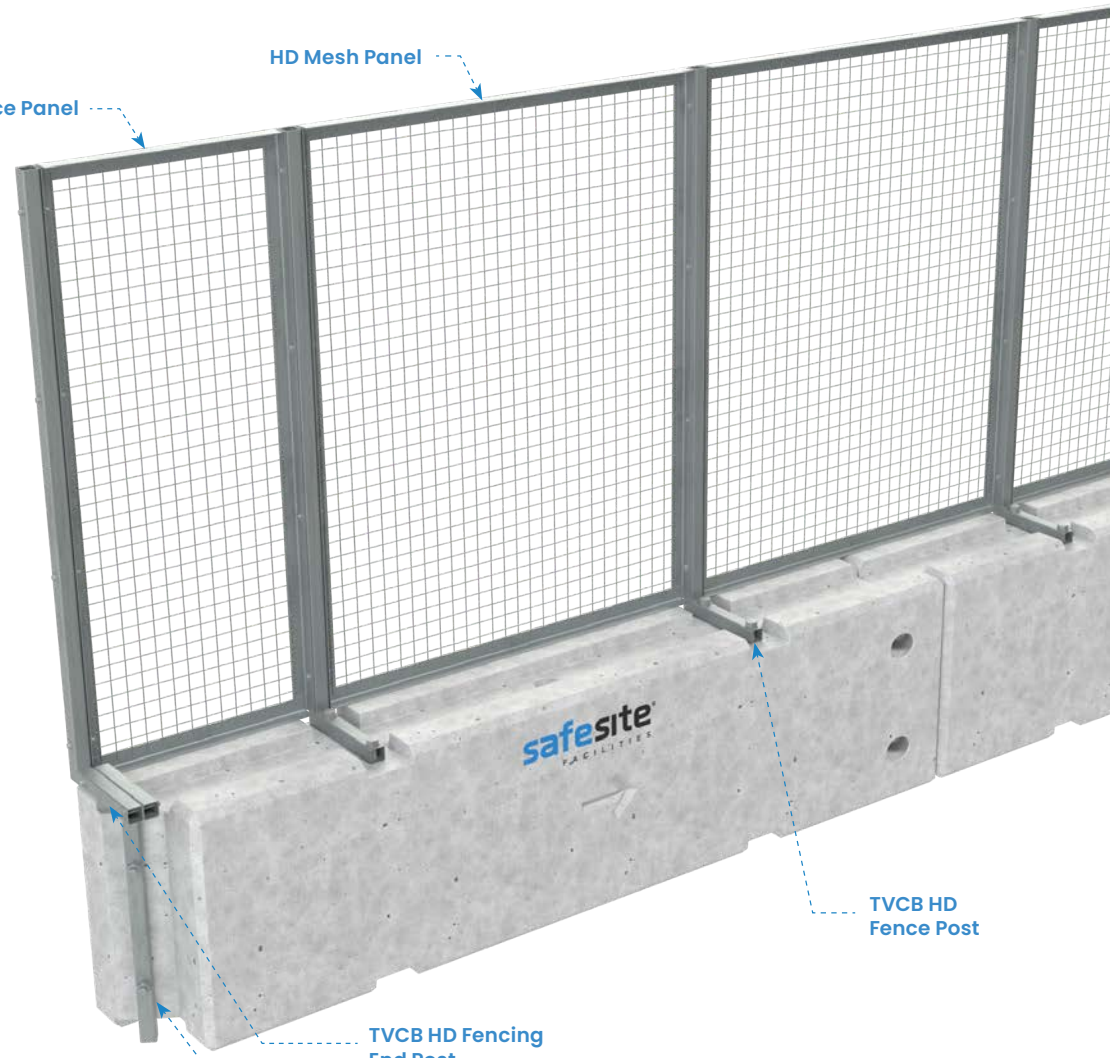
TVCB HD Fence Straight End Fixings

TVCB HD Mesh Fencing End Panel Components - Per TVCB concrete barrier

Description	Size (mm)	QTY
CBS120295 - TVCB HD 2" Mesh End Panel	H1835 x W757 x D50	1
CBS120376 - TVCB HD Fence End Post	H1835 x W370 x D450	1
CBS120398 - TVCB HD Fencing End Connector	H850 x W310 x D450	1
CBS129925 - M10 x 80 Hex Bolts	-	8
CBS129926 - M10 Form G Washer	-	16
GSFS024 - M10 Hex Nut	-	8
CBS129956 - M12 x 120 Hex Bolt	-	2
CBS129958 - M12 Form G Washer	-	4
GSFS025 - M12 Hex Nut	-	2
CBS129932 - M24 x 90mm Hex Bolts	-	4
CBS129935 - M24 x 320mm High Tensile Bolts	-	2
CBS129942 - M24 x 12mm Washer	-	4
CBS129943 - M24 Form A Washer	-	4
CBS129945 - M24 Hex Nut	-	6

TVCB HD Mesh Fencing Panel Components - Per TVCB concrete barrier

Description	Size (mm)	QTY
CBS120265 - TVCB HD 2" Mesh Panel	H1835 x W2500 x D50	2
CBS120274 - TVCB HD Fence Post	H1835 x W2500 x D50	2
CBS129925 - M10 x 80 Hex Bolts	-	8
CBS129926 - M10 Form G Washer	-	16
GSFS024 - M10 Hex Nut	-	8
CBS129932 - M24 x 90mm Hex Bolts	-	4
CBS129935 - M24 x 320mm High Tensile Bolts	-	2
CBS129942 - M24 x 12mm Washer	-	4
CBS129943 - M24 Form A Washer	-	4
CBS129945 - M24 Hex Nut	-	2





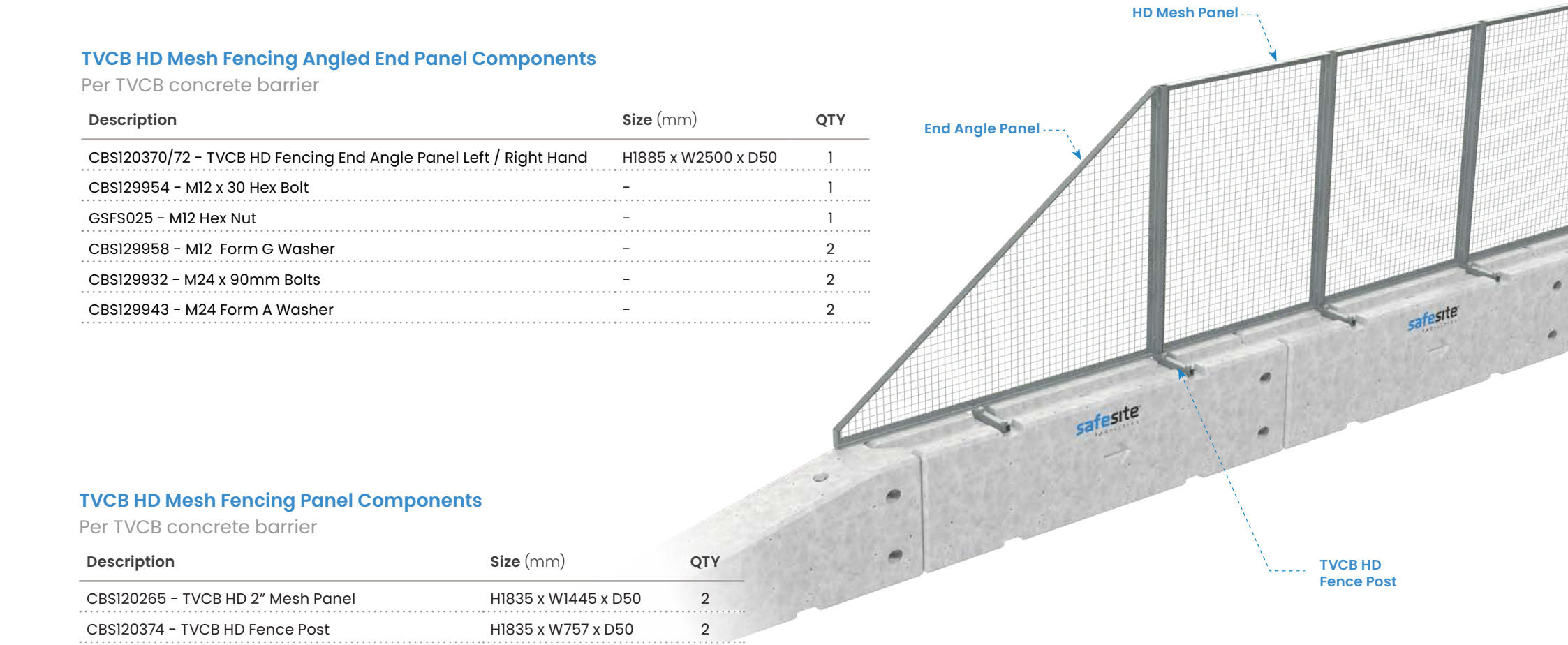
End Fencing Post & End Connector

TVCB HD Fence Angled End Fixings

TVCB HD Mesh Fencing Angled End Panel Components

Per TVCB concrete barrier

Description	Size (mm)	QTY
CBS120370/72 - TVCB HD Fencing End Angle Panel Left / Right Hand	H1885 x W2500 x D50	1
CBS129954 - M12 x 30 Hex Bolt	-	1
GSFS025 - M12 Hex Nut	-	1
CBS129958 - M12 Form G Washer	-	2
CBS129932 - M24 x 90mm Bolts	-	2
CBS129943 - M24 Form A Washer	-	2



TVCB HD Mesh Fencing Panel Components

Per TVCB concrete barrier

Description	Size (mm)	QTY
CBS120265 - TVCB HD 2" Mesh Panel	H1835 x W1445 x D50	2
CBS120374 - TVCB HD Fence Post	H1835 x W757 x D50	2
CBS129925 - M10 x 80 Hex Bolts	-	8
CBS129926 - M10 Form G Washer	-	16
GSFS024 - M10 Hex Nut	-	8
CBS129932 - M24 x 90mm Bolts	-	4
CBS129943 - M24 x 320mm Bolts	-	2
CBS129942 - M24 x 12mm Washer	-	4
CBS129943 - M24 Form A Washer	-	4
CBS129945 - M24 Hex Nut	-	2



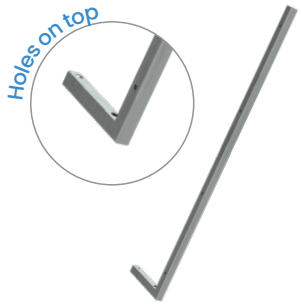
Angled Panel Bolted into TVCB

Installation Parts

TVCB Heavy Duty Mesh Fencing - Measurements in mm

Standard part

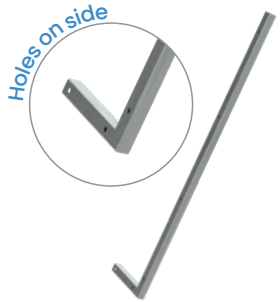
1 **TVCB HD Fence Post**
CBS120374
Quantity: 2 Per Barrier



Size (mm)	Weight (kg)
H1885 W370 x D50	9

End part

2 **TVCB HD Fence End Post**
CBS120376
Quantity: 1 Per End



Size (mm)	Weight (kg)
H1835 W370 x D50	9

End part

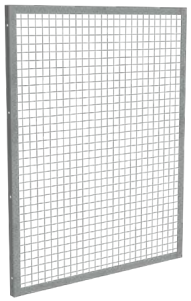
3 **TVCB HD Fence End Connector**
CBS120398
Quantity: 1 Per End



Size (mm)	Weight (kg)
H850 x W310 x D50	5

Standard part

4 **TVCB HD 2" Mesh Panel**
CBS120265
Quantity: 2 Per Barrier



Size (mm)	Weight (kg)
H1835 W1445 x D50	21

End part

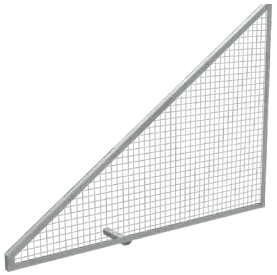
5 **TVCB HD 2" Mesh End Panel**
CBS120295
Quantity: 1 Per End



Size (mm)	Weight (kg)
H1835 W757 x D50	15

End part

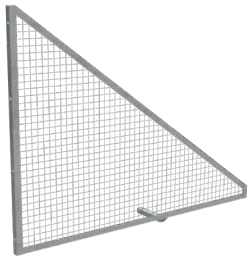
6 **TVCB HD 2" Mesh End Angle Panel (Left)**
CBS120370
Quantity: 1 Per End



Size (mm)	Weight (kg)
H1885 W2500 x D50	24

End part

7 **TVCB HD 2" Mesh End Angle Panel (Right)**
CBS120372
Quantity: 1 Per End



Size (mm)	Weight (kg)
H1885 W2500 x D50	24

Installation Parts

TVCB Heavy Duty Mesh Fencing Misc Items - Measurements in mm

Standard part

1 **M24 x 90 Hex Bolt**
CBS129932

M24 Washer Form A
CBS129943

M24 Hex Nut
CBS129945



Standard part

2 **M24 x 320 High Tensile Bolt**
CBS129935

M24 x 12mm Washer
CBS129942

M24 Hex Nut
CBS129945



Standard part

3 **M10 x 80 Hex Bolts**
CBS129925

M10 Washer Form G
CBS129926

M10 Hex Nut
GSFS024



End part

4 **M12 x 120 Hex Bolt**
CBS129956

M12 Washer Form G
CBS129958

M12 Hex Nut
GSFS024



End part

5 **M12 x 30 Hex Bolt**
CBS129954

M12 Washer Form G
CBS129958

M12 Hex Nut
GSFS025

