FirstFence®
HIRE & SALES

CityWall Barriers

Specification Sheet

SPC-CITYWALL-001A



Call our Expert Sales Team for more information.

First Fence Ltd | Kiln Way, Woodville, South Derbyshire, DE11 8EA
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Robust Traffic Management & Urban Safety

Engineered for visibility and performance, the CityWall is a 2-metre water-filled barrier delivering robust protection for major road projects and urban site enclosures. Providing a secure environment for both pedestrians and drivers, this durable system is manufactured from impact-resistant HDPE and utilises a capacity of over 250 litres to easily withstand demanding environments and prolonged outdoor use, maintaining stability with a fully all-weather, UV-stable construction.

Designed for rapid deployment and efficient logistics, the CityWall features an intuitive hook and eye connection that remains securely interlinked at over 280° of angular movement. With accessible filling points on either side, secure anti-tamper caps, and a removable base plug for easy emptying, it ensures streamlined handling on site.

Key Features

- High Ballast Capacity
  (Holds over 250 litres of water to provide severe impact resistance)
- Flexible Articulation
  (Features a hook & eye connection system with over 280° angular movement)
- Rapid Deployment & Drainage
  (Accessible filling points on both sides and removable base plug)
- All-Weather Durability
  (Made from UV-stable HDPE for prolonged outdoor use)
- Customisation & Extension
  (Compatible with DoubleTop or Fence hoarding systems)



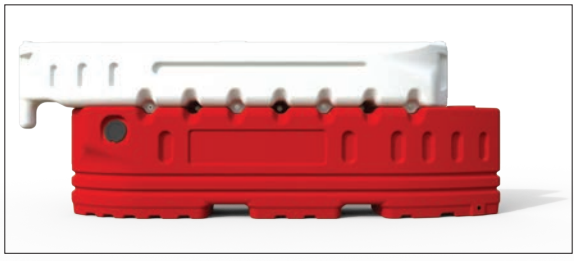
Suitable For

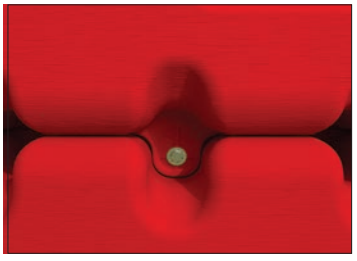
- Urban Construction Sites
- Major Highway & Roadworks
- Pedestrian Segregation
- Temporary Event Security
- Equipment & Compound Enclosures

Specification

HEIGHT	LENGTH	DEPTH	WEIGHT	MATERIAL	COLOUR
800mm	2295mm (Overall) 2040mm (Working)	350mm	20kg (Empty) 270kg (Filled)	UV Stable HDPE	Red or White







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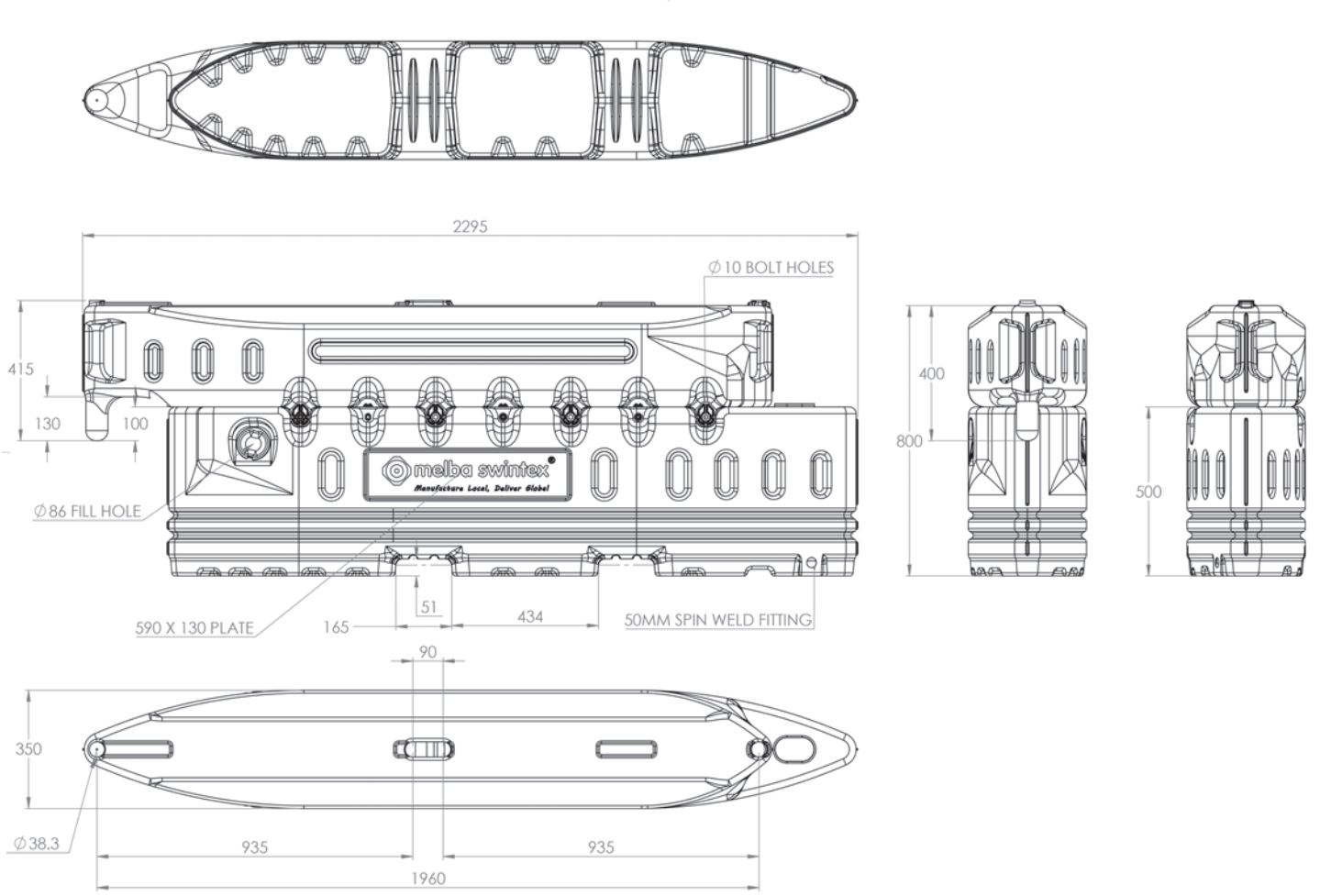

Wind Speed Testing

Temporary traffic barriers require ballast to comply with the three wind speed classifications outlined in BS 8442:2015:

Class A: 26.3 m/s (58 mph)

Class B: 17.6 m/s (39 mph)

Class C: 8.7 m/s (19 mph)

The water-filled CityWall Barrier system underwent rigorous testing at MIRA's Full-Scale Wind Tunnel to determine its maximum wind resistance. The results are detailed below:

CLASS C

Withstood over 70 mph
Recommended Ballast Weight: 0kg



CLASS B

Withstood over 70 mph
Recommended Ballast Weight: 0kg



CLASS A

Withstood over 70 mph
Recommended Ballast Weight: 0kg



SQUARE

Withstood over 85 mph
Recommended Ballast Weight: 0kg



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Crash Testing

The CityWall barrier system has been subjected to a controlled crash test by Melba Swintex to evaluate its performance as a crash tested barrier system for major projects, with modular fencing installed, and each barrier unit containing over 250 litres of water.

The test involved a standard passenger vehicle with additional ballast to achieve a target test mass.

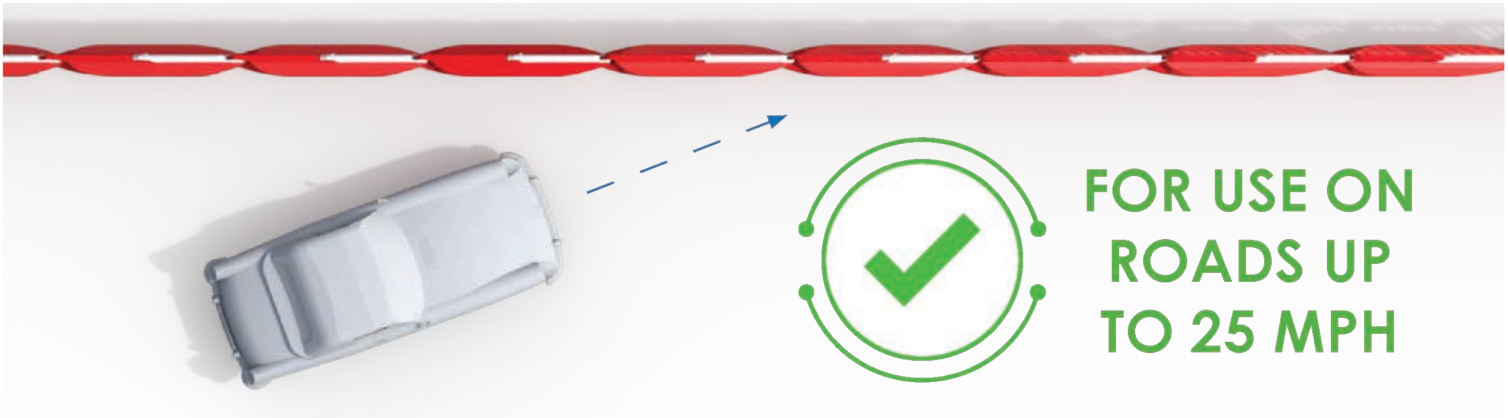
The vehicle was propelled into a continuous, 50 metre linear installation of the barrier system at an impact angle of 20 degrees.

Three tests were undertaken, each at an increased speed: 15 mph, 20 mph, and 25 mph.

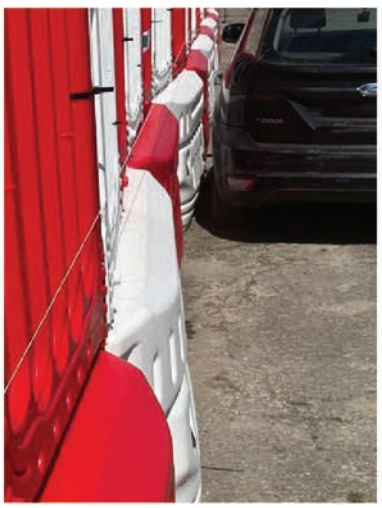
Site speed limits on major projects vary between 5 mph to 15 mph.

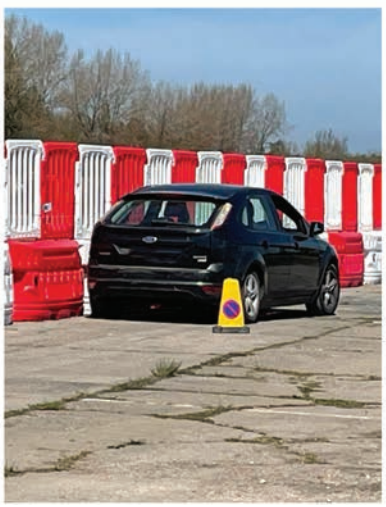
The test confirmed that the barrier and integrated fencing maintained structural integrity and functioned as a cohesive unit under impact conditions, with only cosmetic damage.

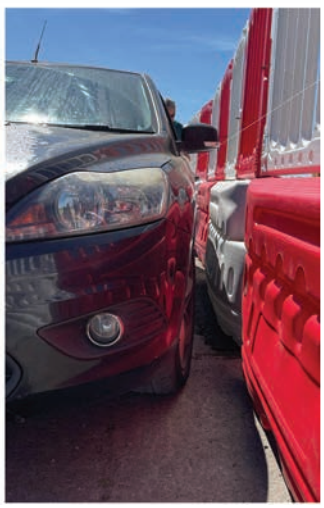
No damage was caused to the test vehicle.











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