

#### **PRODUCT** OVERVIEW

Developed by our experts to only require a 100mm foundation depth, the unique design of the RhinoGuard® Super Shallow 100™ bollard is successfully crash tested to IWA 14.1 standards and is capable of withstanding a 7.2 tonne vehicle travelling at 40mph.

As the Super Shallow 100™ requires little excavation, the bollard series makes the perfect solution to use in areas with high utilities or services. Additionally, the level of waste during install is minimal.





### **OUTSTANDING** PERFORMANCE

The RhinoGuard® Super Shallow 100™ Bollard has been tested to IWA 14.1 standards and can successful withstand a 7.2 tonne vehicle travelling at 40mph.





IWA14.1-1:2013 Bollard, Performance Rating: V/7200(N2A)/64/90:7.6

### **DESIGN** CAPABILITIES

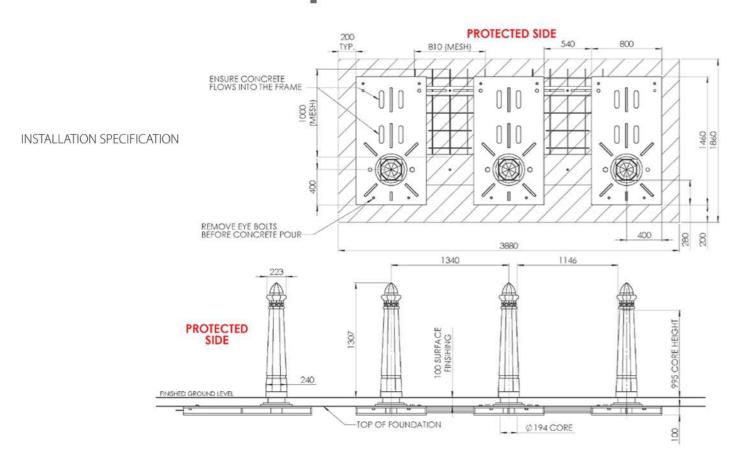
The slim profile of the bollard core means a varied choice of sleeve designs and material options are also offered with the Super Shallow  $100^{M}$ .

The tapered design of the core also means that bespoke designs can be achieved to compliment schemes, events or branding. Like with the RhinoGuard® Ultra Shallow 50™, the core bollard elements can be incorporated in to other products within the Landscape Protection portfolio including seating, cycle stands, lighting, handrails and wayfinding solutions, offering a variety of innovative and protective design solutions to meet a range of requirements.

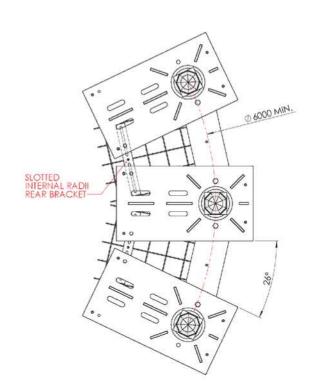


# **Marshalls**

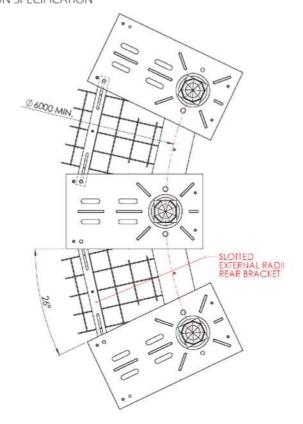
# RhinoGuard<sup>®</sup> Super Shallow 100<sup>™</sup> Bollard



### INTERNAL RADIUS INSTALLATION SPECIFICATION



### EXTERNAL RADIUS INSTALLATION SPECIFICATION



### **Core Bollard Specifications**

CORE	DIAMETER (mm)	HEIGHT ABOVE GROUND (mm)	OVERALL WEIGHT (kg)
Super Shallow 100° Core	194	995	520

#### Standard Sleeve Specifications

SLEEVE OPTIONS	DIAMETER (mm)	HEIGHT ABOVE GROUND (mm)	SLEEVE MATERIAL	SLEEVE FINISH	SLEEVE WEIGHT (kg)
Stainless Steel, No Groove (1 or 2 Groove Options)	204	1020	Stainless Steel	Brushed	11
Mild Steel, No Groove (1 or 2 Groove Options)	204	1020	Steel	Painted	17
Geo	204	1100	Stainless Steel	Bead Blasted	16
Manchester	350	1100	Ferrocast*	Painted	34
LED	204	1020	Stainless Steel	Brushed	14
Decorative	204	1020	Stainless Steel	Brushed	34
City of London	240	1300	Ferrocast*	Painted	28