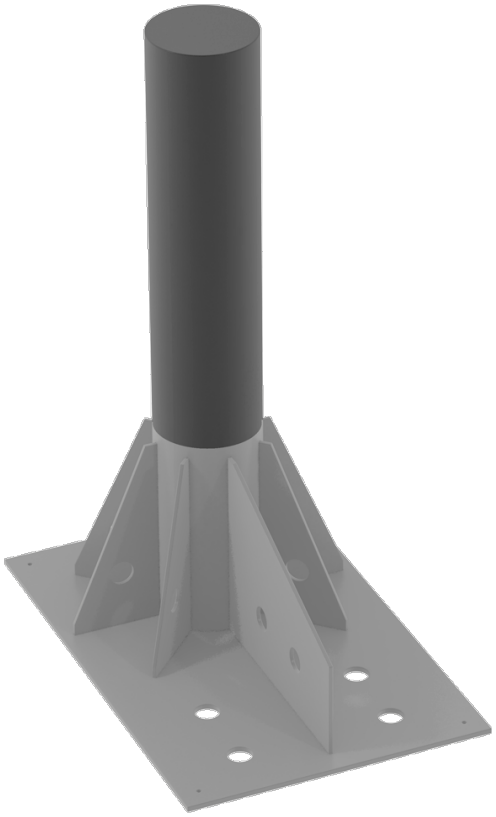


PAS-68

IWA-14

ASTM INTERNATIONAL

ISO22343

HM5012F

Bollard

DEFENDER FIX M50

ASTM

ISO22343

Certified according to PAS 68

US DEPARTAMENT OF STATE

ISO 9001 ISO 50001 ISO 14001 ISO 45001

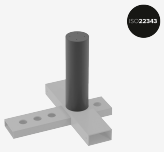
The DEFENDER high security bollard is our first bollard to be impact tested to ASTM 2656-23 (M50 rating), successfully withstanding a 6,800 kg vehicle at 80 km/h (50 mph). The DEFENDER achieved fantastic results, remaining operational even after being impacted by such a large vehicle. The DEFENDER is hydraulically operated and is capable of performing a high number of operations per hour. It can be integrated with existing and additional security measures. Designed for installation on public roads and security critical applications (government buildings, airports, tourist areas, high traffic flow sites), it offers unrivalled protection anywhere in the world. The DEFENDER range is designed to offer maximum protection with a sleek aesthetic, with a diameter of 275mm and a thickness of 25mm, and different heights available: 900mm, 1000mm and 1200mm above ground level. The bollard is supplied as standard in galvanised steel and matt black epoxy paint, and includes an RGBW LED crown as a traffic light function: green when lowered, flashing red when raised and red when raised.

DIMENSIONS AND MATERIALS	HEIGHT FROM GROUND LEVEL
FUNCTIONAL FEATURES	SYSTEM
	REFLECTIVE BAND

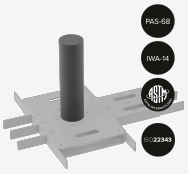
V. 2026-07-22 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.

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DEFENDER M30 - FR
HM3009FR



DEFENDER M50 - FR
HM5012FR



TELESCÓPICA AUTOMÁTICA DEFENDER M30 - S
HM3009



TELESCÓPICA AUTOMÁTICA DEFENDER M50
HM5012



V. 2026-07-22 | The constant improvement and evolution of our products may result in some modifications of the technical specifications and characteristics of the products without prior notice.