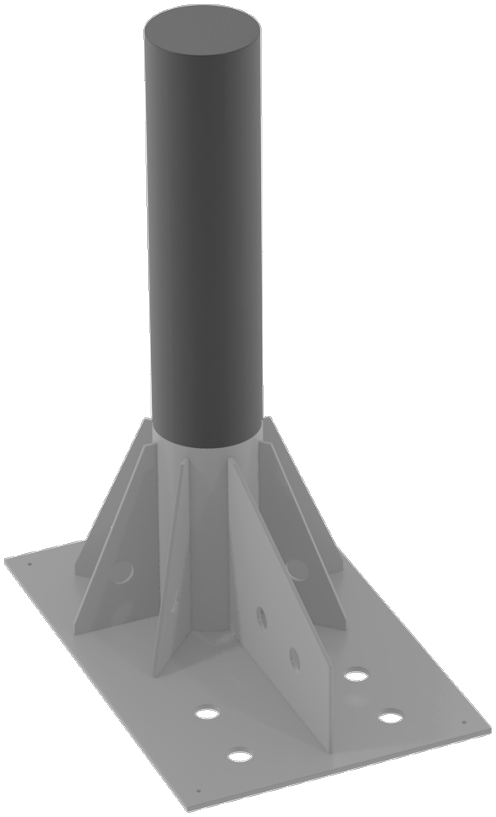


PAS-68

IWA-14

ISO22343

HM5012F

Bollard

DEFENDER FIX M50

ASTM

ISO22343

Certified according to PAS 68

US DEPARTAMENT OF STATE

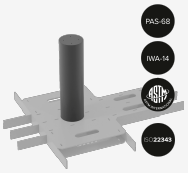
Regulations and certifications:

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 14.99 lbs vehicle at 49.7 mph (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 10.83" and a thickness of 0.98", and different heights available: 35.43", 39.37" and 47.24" 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.

		DEFENDER FIX HM5009F	DEFENDER FIX HM5010F	DEFENDER FIX HM5012F
DIMENSIONS AND MATERIALS	HEIGHT FROM GROUND LEVEL	**35.43"**	**39.37"**	**47.24"**
	THICKNESS	**0.49"**	**0.49"**	**0.98"**
	BOLLARD DIAMETER	**Ø10.83"**	**Ø10.83"**	**Ø10.83"**
	BOLLARD MATERIAL	**0.98" Steel Epoxy primer and paint**	**0.98" Steel Epoxy primer and paint**	**Acero 0.98" Imprimación y pintura epoxi**
FUNCTIONAL FEATURES	SYSTEM			
	IMPACT RESISTANCE	**14991.42 lbs at 49.7 mph**	**14991.42 lbs at 49.7 mph**	**14991.42 lbs a 49.7 mph**
	REFLECTIVE BAND	**Optional**	**Optional**	**Opcional**
	SAFETY OF PEOPLE AND PROPERTY	**Optional**	**Optional**	**Opcional**
	LIGHTED CROWN	**Optional**	**Optional**	**Opcional**
CERTIFICATION	CERTIFIED ACCORDING TO THE STANDARD			

V. 2026-11-12 | 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.

DEFENDER M30 - FR	DEFENDER M50 - FR	TELESCÓPICA AUTOMÁTICA DEFENDER M30 - S	TELESCÓPICA AUTOMÁTICA DEFENDER M50
HM3009FR	HM5012FR	HM3009	HM5012
			

Downloads: *Project sheet* | *CAD* | *Certificate* |



V. 2026-11-12 | 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.