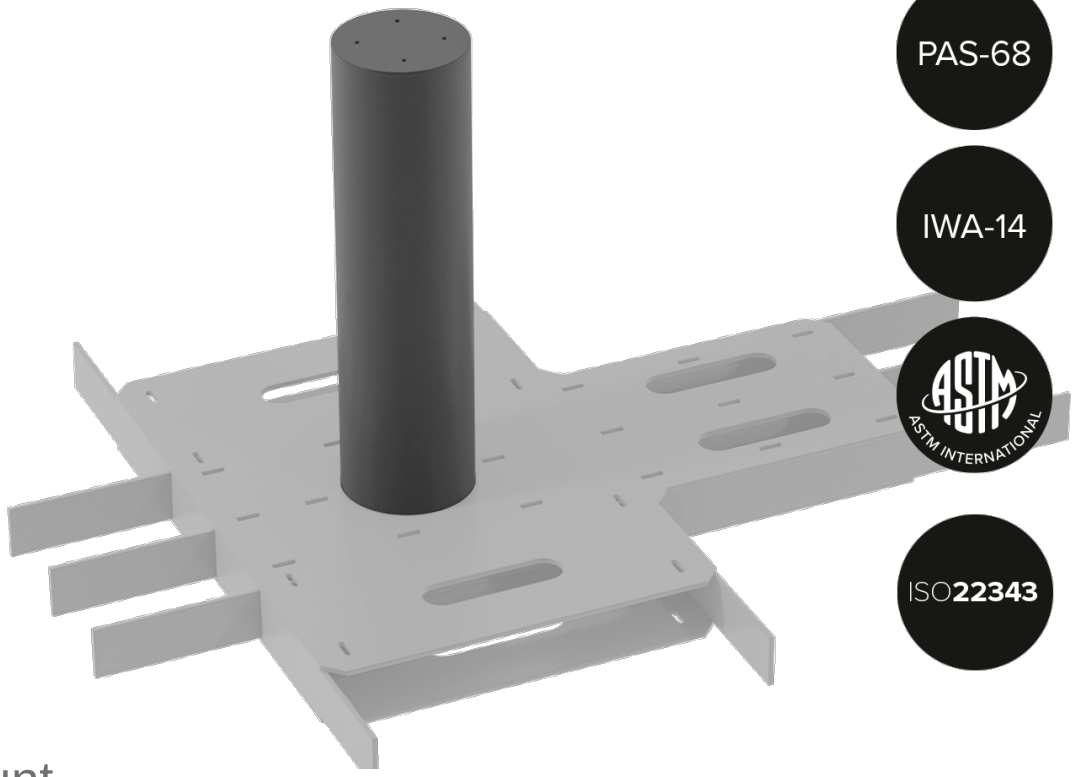


HM5012FR

Shallow Mount

DEFENDER M50 - FR

ASTM

ISO22343

Certified according to PAS 68

US DEPARTAMENT OF STATE

Regulations and certifications:

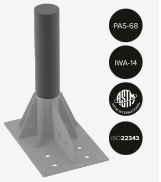
ISO 9001 ISO 50001 ISO 14001 ISO 45001

DEFENDER HM5012FR safety shallow mounted , manufactured from high-strength steel. Designed to offer effective protection against vehicle impacts, it is installed by embedding it in a foundation. HVM shallow-mounted bollards are designed for locations where deep foundations are not feasible. Unlike traditional bollards, they can be installed in areas with limited depth, making them ideal for busy urban environments where access to underground utilities is restricted. Their robust geometry and balanced proportions guarantee high structural rigidity and excellent stability after installation. Finished with anti-corrosion treatment and thermoset polyester powder coating, resistant to weathering and UV rays. Recommended for demarcating pedestrian zones, restricted access points, or high-security urban areas, combining functionality, durability, and careful aesthetic integration into the urban environment.

		DEFENDER FR HM5012FR	DEFENDER FR HM5010FR	DEFENDER FR HM5009FR
DIMENSIONS AND MATERIALS	HEIGHT FROM GROUND LEVEL	**47.24"**	**39.37"**	**35.43"**
	THICKNESS	**0.98"**	**0.98"**	**0.98"**
	BOLLARD DIAMETER	**Ø10.83"**	**Ø10.83"**	**Ø10.83"**
	BOLLARD MATERIAL	**0.98" Steel**	**0.98" Steel**	**0.98" steel**
		Epoxy primer and paint	**Epoxy primer and paint**	**Epoxy primer and paint**
FUNCTIONAL FEATURES	SYSTEM			
	IMPACT RESISTANCE	**14991.42 lbs at 49.7 mph**	**15873.26 lbs at 49.7 mph**	**15873.26 lbs at 49.7 mph**
	REFLECTIVE BAND	**Optional**	**Optional**	**Optional**
	LIGHTED CROWN	**Optional**	**OPTIONAL**	**OPTIONAL**
CERTIFICATION	CERTIFIED ACCORDING TO THE STANDARD			

V. 2026-11-18 | 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 FIX M50
HM5012F



DEFENDER M30 - FR
HM3009FR



TELESCÓPICA AUTOMÁTICA DEFENDER M30 - S
HM3009



TELESCÓPICA AUTOMÁTICA DEFENDER M50
HM5012



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



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