



CATALOG

PITAGONE

Threat Management

Pitagone International Catalogue V. September 2025





PITAGONE'S MOBILE HVM

- PITAGONE is the leader in Counter Terror Mobile Solutions for HVM, mainly serving Police, Armed Forces and Federal Agencies.
- PITAGONE offers also tailor-made services to Airports, Ports, Public Transportation as well as to major private companies.
- PITAGONE deploys its barriers in various security perimeter applications and assists its clients daily in over fifty countries on five continents from its Brussels headquarters.
- PITAGONE'S global expertise enables us to assist organizations in all aspects of an effective enterprise risk management program.
- PITAGONE'S barriers are PATENT GRANTED.
- PITAGONE is the FIRST company worldwide which received the international certifications for its mobile HVM.

MOBILE HVM

- **Hostile Vehicle Mitigation (HVM) aims at minimizing risks associated with vehicle-borne threats. These risks may range from acts of vandalism to sophisticated/aggressive attacks by criminals or terrorists.**
- **Security risk assessments, strategic planning, design, and the implementation of tailored risk-based solutions, will require identifying potential threats, assessing vulnerabilities and determining appropriate mitigation measures. These processes ensure that HVM solutions will mitigate the specific risk of a location or of an event.**

KEY FACTS

- ① **Is penetration distance influenced by weather conditions? YES**
 - If the road is dry or wet;
 - If the weather is hot or cold (without even mentioning frozen environment).
- ② **Is penetration distance influenced by surface on impact? YES**
 - From tarmac (hard) to fresh asphalt (soft), grass, clay... barriers will find a harder or an easier anchor on the ground which will determine the penetration distance.
- ③ **Is penetration influenced by angle at impact? YES**
 - Penetration is today calculated following a 90° impact;
 - Practically, for each type of barrier, the penetration following a side attack, an attack with offset or an attack with delay should be known. This is the true reality of terror attacks.
- ④ **Are there rules about penetration in certification? YES**
 - The vehicle has to be stopped after 30m (following PAS68, IWA14-1 and ASTM) or 25m (following ISO 22343-1).
- ⑤ **Is penetration rate an important factor while securing an event? NO**
 - A security plan should always foresee larger distances between mobile HVM and the target.

PRODUCTS

F11



F18



F24



Developed and produced in Belgium

PITAGONE
Threat Management

CERTIFICATS



«wheels on»

CERTIFICAT* UNITS
IWA-14 **6**
*any comments on certificates

CERTIFICAT* UNITS
IWA-14-1 **8**
PASS68 **8**
*any comments on certificates

CERTIFICAT* UNITS
ISO **3**
22343-1
*any comments on certificates

SUMMARY

		SIL (25150)	nbre	90°	45°	SETOFF	weight	speed	wheel on/off
CERTIFICATS									
IWA14-1	F11	-	6	V	-	-	7,2t	48kmh (30mph)	
	F18	S	8	V	-	-	7,5t	48kmh (30mph)	on
PAS68	F18	S	8	V	-	-	7,5t	48kmh (30mph)	on
ISO 22343-1	F24	-	3	V	-	-	7,2t	48kmh (30mph)	on
ENGINEERING REPORT									
ENG Rep	F18	S	8	V	-	-	7,5t	48kmh (30mph)	on
	F18	L	6	V	-	-	3,5t	48kmh (30mph)	on
ASTM	F18	L	6	V	-	-	2,2t	48kmh (30mph)	on
	F18	S	6	V	-	-	6,8t	48kmh (30mph)	on
CRASHTEST									
VADS	for additional VADS test please contact info@pitagone.com								
Anprallversuch									
SKIB	F18	S	8	-	-	V	12t	42kmh	on
	F18	S	8	-	V	-	12t	42kmh	on



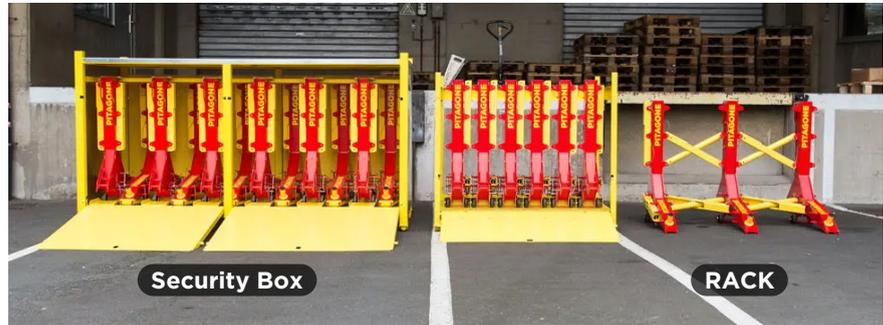
BARRIERS



- Built up by 1 person
- Tested and certificated
- Fully mobile, no accessories needed
- Easy to handle for opening to priority and authorized vehicles
- Stops vehicles 7,2t at 48km/h (30mph)
- Fully adjustable, adapt to all surface and terrain (including sidewalks, bumpy roads ...)

F18

BARRIERS



- Built up by 1 person
- Tested and certified with the wheels.
- Fully mobile, no accessory needed
- Easy to handle for opening to priority and authorized vehicles
- Stops vehicles 7,5t at 48km/h (30mph)
- Adjustable in two widths (25/50)

F24

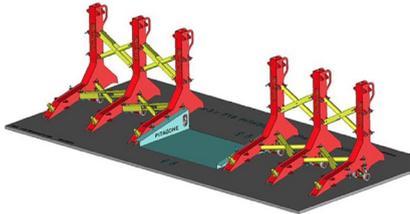
«BIG BOY»



- Stops vehicles 7,5t à 48km/h (30mph)
- Always set-up by 3
- Easy transportation with the logistic tool;
- Heavy duty;

F18

WALKTHRU



Distance of 1,2m between two UNITS for the safe passing of pedestrians



PRODUCTS

F18 BRAKE



BRAKES create an immediate anker on the ground (useful in VADS)

F18 SLIDER



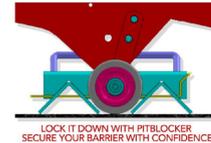
SLIDER offers the possibility to move the F18 faster, easier and smarter (to be taken off while in operational position)

F11 PITPLATE



PITPLATE stabilizes the F11 laterally while giving free surface for information/advertisement.

PITBLOCKER



PITBLOCKER makes the move of the system more difficult when a standalone position is preferred.



One Gard Mobile Post

- Mobile guard post that protects the guard from attacks with armor-piercing bullets and can be used as shield when shooting
- bulletproof steel and glass

Minimum protection level and certification

Sheet steel	FB6 - EN1522 and EN1523 (US Dept of State Standard SD-SDT-01,01)
Glass	BR6 - EN1063 (US NIJ Standard 0108)

THE TOOL TO PLAN YOUR DEFENSE

- Planning - organizing and protecting
- Software / support
- Threat analyse as part of a Security plan
- Mapping
- Speed measurements



PA
(Pitagone Assistance)
→ Customer

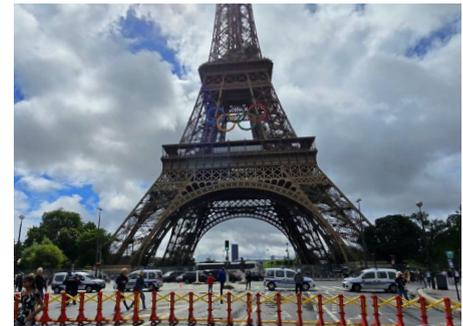


PA-pro
Professional











GENERAL REMARKS:

- NO sharp ends
- Assembly by one person requires NO tools
- Long service life
- Vehicle restrained, immobilized, disabled and engine destroyed, NO restart possible
- Building up instructions from the manual to be followed.
- Easy storage
- Easy transportation
- Can be customized (color/name)

WHILE SECURING AN EVENT:

- ALWAYS follow local legislations for installation
- Ask for the certifications of the products you want to use
- Check if the mobile barriers are certified in operational conditions (wheels on)
- Be sure that:
 - the certification has been achieved on usual hard surfaces (no fresh asphalt)
 - the certification assures that the engine is destroyed after impact and that NO restart is possible



PITAGONE

Threat Management

PITAGONE
Avenue Paepsem 16
1070 BRUSSELS

www.pitagone.com
Info@pitagone.com

+32 2 896 63 33