

PITAGONE | 2020
Threat Management

**THE EASY, EFFICIENT, PERFORMING
ANTI-TERROR MOBILE BARRIERS**

ABOUT PITAGONE

PITAGONE IS THE LEADER IN COUNTER TERROR MOBILE SOLUTIONS.

MAINLY SERVING POLICE, ARMED FORCES AND FEDERAL AGENCIES, PITAGONE OFFERS ALSO TAILOR-MADE SERVICES TO AIRPORTS, PORTS, PUBLIC TRANSPORTATION, FIRST RESPONDERS, SPORTS EVENTS, MUNICIPALITIES, CROWD & VEHICLE CONTROL, CROWD GATHERING AREAS, AS WELL AS TO MAJOR PRIVATE COMPANIES AND CRITICAL INFRASTRUCTURES.

PITAGONE DEPLOYS ITS BARRIERS IN VARIOUS SECURITY PERIMETER APPLICATIONS AND ASSISTS ITS CLIENTS DAILY IN OVER THIRTY-NINE COUNTRIES ON FIVE CONTINENTS FROM ITS BRUSSELS HEADQUARTERS.

GLOBAL PRESENCE



OUR BARRIERS ARE DEVELOPED, DESIGNED & PRODUCED IN BELGIUM !

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**
 - ➔ Rate of penetration are today calculated following an 90° impact.
 - ➔ Practically, for each barrier we should know the penetration following a side attack, an attack with offset or an attack with delay, which are the true reality of terror attacks.
- 4** ARE THERE RULES ABOUT PENETRATION IN CERTIFICATION? **YES**
 - ➔ The vehicle has to be stopped 30 Meter after impact.
- 5** IS PENETRATION RATE AN IMPORTANT FACTOR WHILE SECURING AN EVENT? **NO**
 - ➔ While securing an event always take as reference the rules of certification : 30 Meters

CERTIFIED
SOLUTIONS



HVM - MOBILE BARRIERS



CAN
STOP



INDEX

BARRIER F11



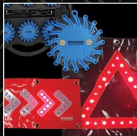
DATASHEET
AUSTRALIAN CRASH TEST
INTERNATIONAL CERTIFICATION
RACK F11
SECURITY BOX F11

BARRIER F18



DATASHEET
INTERNATIONAL CERTIFICATION
GERMAN CERTIFICATION
WALKTHRU
RACK F18
SECURITY BOX F18

ACCESSORIES



BLUE LED FLARE ALERT
RED BANNER
BLACK BANNER TRAFFIC SIGN

SITUATIONS



PITAGONE BARRIERS
IN ACTION WORLDWIDE

**PITAGONE PROVIDES CRASH RATED BARRIERS
WITH PROVEN STOPPING CAPABILITIES
TO MEET USERS REQUIREMENTS
IN REAL OPERATIONAL CONDITIONS**



BARRIER F11 PATENTED

CAN
STOP



Height : **100cm**

Weight : **43,8kg** (assembled)

Distance between 2 modules : **80cm**

Mobile system

Punch tip

No sharp edges / Non anxiety equipment

- Fully portable and movable barrier (priority vehicles).
- Stops the passage of vehicles even in a hostile situation.
- Quick and easy assembly, requires no tools.
- Resist to a shock of 2,5 tons 4X4 launched at 64km/h (40mph).
- Resist to a shock of a 7,5 tons truck launched at 48 Km/h (30mph).
- Fully adjustable, adapts to all surfaces and all terrain (including sidewalks, gradients and bumpy roads).
- Compact assembling elements, easy storage and transport.
- Long service life, minimal maintenance.

F11 DATASHEET



ASSEMBLY
OF 2
MODULES



F11 AUSTRALIAN CRASH TEST



WORLD
PREMIERE



Tested by the Australian authorities



Test
Designation

Vehicle Mass

Test
Speed

Test
Angle

N1G



64 km/h
40 mph



**CRASH TESTED IN REAL
OPERATIONAL CONDITIONS**

F11 tested by
Australian authorities

Only **4 units**
stopped the **4X4**

Engine **Destroyed**
Vehicle **Disabled**



Crash-tested
with **wheels on**

F11 CERTIFICATIONS



WORLD
PREMIERE

  			
Test Designation	Vehicle Mass	Test Speed	Test Angle
N2A	7,5 T 	48 km/h 30 mph	90° 

**CRASH TESTED IN REAL
OPERATIONAL CONDITIONS**

Only **6 units** stopped the truck

Vehicle **Restrained**

Vehicle **Immobilized**

Engine **Destroyed**

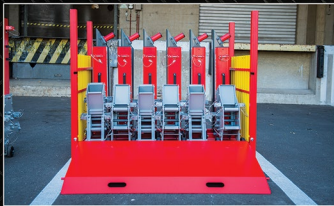
Vehicle **Disabled**

Truck **Couldn't Restart**

PITAGONE is the **first** company worldwide which received
the **International Certifications** for this kind of device



F11 RACK



THE BEST SUITED RACK FOR TRANSPORTATION & STORAGE

Allows better use of space in your warehouses and a significant reduction in transportation costs.

Galvanised steel frame.

Racks can be customized (Color/Name).

Rack avoids : Theft / Breakage / Loss.

Contains 6 x barriers F11 disassembled.

Can be locked up.

Can be stapled up to 3 units.

QUICK AND EASY TO HANDLE

Height : 102,5 cm

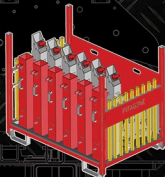
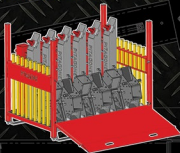
Width : 80 cm

Length : 120 cm

Weight : 70 kg

Weight with 6 units : 332 kg

EURO PALLET



F11 SECURITY BOX



THE BEST SUITED BOX FOR TRANSPORTATION & STORAGE

- Allows better use of space in your warehouses.
- Galvanised steel frame.
- SecurityBox can be customized (Color/Name).
- Can be locked up.
- Can be stapled up to 3 units.
- Significant reduction of logistics & transportation cost :
- Barriers are already assembled

QUICK AND EASY TO HANDLE

Height : 135 cm

Width : 120 cm

Length : 250 cm

Weight : 415 kg

Weight with 12 units : 967 kg





BARRIER **F18** PATENTED

**CAN
STOP**



Height : **100cm**

Weight : **39kg**

Distance between 2 modules :

width : 25 - 43,5cm | width : 50 - 68cm

Mobile system

Punch tip

No sharp edges / Non anxiety equipment

- Unique, mobile solution against ram vehicles.
- Tested with functional mobile system (Wheels on).
- Ultra-fast assembly, does not require any tools.
- Easy storage and transport.
- Long life cycle, minimal maintenance.
- Energy and lateral shock absorption.
- Adjustable to two widths.
- Easy assembly by one person.

STOPS ALSO :
SIDE ATTACK
ATTACK WITH AN OFFSET

F18 DATASHEET



ASSEMBLY
OF 2
MODULES



F18 CERTIFICATIONS



HEAD-ON ATTACK



No **Flying Parts**
(won't hurt anyone after impact)

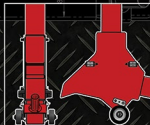
Vehicle **Restrained**.

Vehicle **Immobilized**.

Engine **Destroyed**.

Vehicle **Disabled**.

Truck **Couldn't Restart**.



Crash-tested
with **wheels on**

ASTM F18 F18-18T F18-18T		ASTM F18 F18-18T F18-18T	ASTM F18 F18-18T F18-18T
Test Designation	Vehicle Mass	Test Speed	Test Angle
N3/N3C	7.5-18T 	48km/h 30mph	90° 

**CRASH TESTED IN REAL
OPERATIONAL CONDITIONS**



F18 CERTIFICATIONS



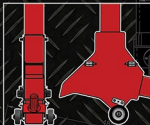
ATTACK WITH AN OFFSET



SIDE ATTACK (45°)



With the German certification, **Pitagone** was granted with **6 World Premiere**



Crash-tested with **wheels on**

THIS PRODUCT HOLDS A **CPNI VEHICLE ATTACK DELAY STANDARDS (VADS) RATING**

No Flying Parts.
(won't hurt anyone after impact)
Wet ground.
Impact with an offset of 1m.
Impact at 45°.
Engine Destroyed.
Vehicle Disabled.
Truck **Couldn't Restart.**

Tested by the German authorities



Test designation

Vehicle mass

Test speed

N3/N3C
CP15

12T

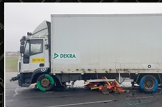
42 km/h
26 mph



Test angle



**WORLD
PREMIERE**



WALKTHRU

THE ULTIMATE COST-EFFECTIVE OPERATIONAL SOLUTION



The **"Walkthru"** has been designed for the protection of events while allowing pedestrians and cyclists to walk through. Compact, easy to carry, lightweight, robust, fast to install. No tools needed, nor anchor in the ground. The **"Walkthru"** is modulable and adapts to all streets and perimeter configurations.



Height : **21,5 cm**
Length : **162 cm**
Depth : **72 cm**
Weight : **8 kg**



F18 RACK



THE BEST SUITED RACK FOR TRANSPORTATION & STORAGE

Allows better use of space in your warehouses and a significant reduction in transportation costs.

Galvanised steel frame.

Racks can be customized (Color/Name).

Rack avoids : Theft / Breakage / Loss.

Contains 6 x barriers F18 mounted.

Can be locked up.

Can be stapled up to 3 units.

QUICK AND EASY TO HANDLE

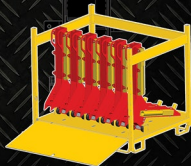
Height : 117 cm

Width : 112 cm

Length : 137 cm

Weight : 95 kg

Weight with 6 units : 329 kg



F18 SECURITY BOX



THE BEST SUITED BOX FOR TRANSPORTATION & STORAGE

Allows better use of space in your warehouses.

Galvanised steel frame.

SecurityBox can be customized (Color/Name).

Can be locked up.

Can be stapled up to 3 units.

Significant reduction of logistics cost :

Barriers are already assembled

QUICK AND EASY TO HANDLE

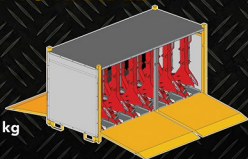
Height : 135 cm

Width : 120 cm

Length : 250 cm

Weight : 415 kg

Weight with 12 units : 875 kg



ACCESSORIES

#SP020

BLUE Led Flare Alert



Product features

- Size: 10 cm diameter x 3.5 cm
- Weight: 190 g (6.7oz.) with battery
- Battery: 1 CR-123 Lithium battery
- Emission Source: 360 degree LED array; solid-state; no filament
- LED Light Colors: Blue
- Daylight & Night Visibility Ranges: Night: visible to 900M (3,000 ft) on road or water, 10 miles (16 km) from air
- Day: Visible to 300M (1,000 ft)
- Housing Color & Material: Polymer
- HAZMAT: Hermetically sealed; intrinsically safe
- Switch Type: Push Button
- Approvals & Certifications: Complies with U.S. DOT (FMCSA) 49 CFR E 392.25 & 393.95(g). Designed to meet MIL-SPEC/MIL-STD 810 for shock, vibration, and water-resistance

#SP021 RED Banner

Directional Led Flashing Arrow



- Slow moving or stationary vehicle
- Traffic safety control
- Road works
- Lane closure
- Hazard Warning
- Traffic control
- Indoor direction signage
- Alternative to truck mounted arrow sign
- Work zone safety
- Road Safety

Product features

- 28 Super Bright LEDs on 4 Blinking Arrows
- 1 Light Modes : Each Arrow Flashes in Sequential Order
- Compact Portable
- Light Weight 350 gr
- Waterproof / Shock Resistant
- Battery Powered (3 AA batteries not included)
- Dual direction (by flipping banner)
- Full Banner Size 48 x 27.5 cm
- 6 grommets with the included suction cups for glass or non-metal surface

#SP022 BLACK Banner

Traffic Warning Led Sign



Product features

- 27 Super Bright LEDs on 4 Blinking Arrows
- 3 Light Modes:
 - 1 - ALWAYS ON - All 27 LEDs activated
 - 2 - ALL FLASHING - All 27 LEDs Flashing
 - 3 - SEQUENTIAL FLASHING - Warning Flashes in Sequential Order
- Compact Portable (carry case)
- Light Weight 450 gr
- Waterproof / Shock Resistant
- Battery Powered (3 AA batteries not included)
- Full Banner Size 50 x 50 cm
- 6 grommets with the included suction cups for glass or non-metal surface

SITUATIONS

ÉLYSÉE (PARIS / FRANCE)



CHAMPS ÉLYSÉES (PARIS / FRANCE)



SITUATIONS

MUNICH (GERMANY)



ANDERLECHT (BELGIUM)



WESTMINSTER (LONDON / UK)



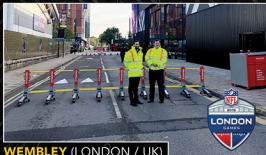
GLOUCESTER (NEW JERSEY / USA)

SITUATIONS

MELBOURNE (AUSTRALIA)



BRUSSELS (BELGIUM)



WEMBLEY (LONDON / UK)



JANDARMERIA (ROMANIA)

SITUATIONS

BERLIN (GERMANY)



ANTWERP (BELGIUM)



BERLIN (GERMANY)



MONTREAL (QUEBEC)

SITUATIONS

COPENHAGEN (DENMARK)



BUDAPEST (HUNGARY)



BRUSSELS (BELGIUM)

BUDAPEST (HUNGARY)



SITUATIONS

JAPAN (RUGBY WORLD CUP)



PORT DE PARIS (FRANCE)



JAPAN (RUGBY WORLD CUP)



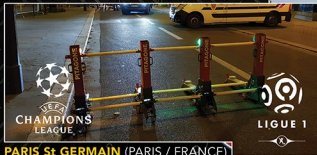
ROLAND GARROS (PARIS / FRANCE)

SITUATIONS

PARIS St GERMAIN (PARIS / FRANCE)



SPA FRANCORCHAMPS (BELGIUM)



SPA FRANCORCHAMPS (BELGIUM)

SITUATIONS

TOUR DE FRANCE (FRANCE)



TOUR DE FRANCE (FRANCE)



WERCHTER FESTIVAL (BELGIUM)



LIÈGE-BASTOGNE-LIÈGE (BELGIUM)



SITUATIONS

LYON (FRANCE)



LYON (FRANCE)



FÊTE ^{DES}
LUMIÈRES
LYON 2019



LYON (FRANCE)



LYON (FRANCE)

SITUATIONS

LAS CANTERAS (GRAN CANARIA / SPAIN)



DORDRECHT (HOLLAND)



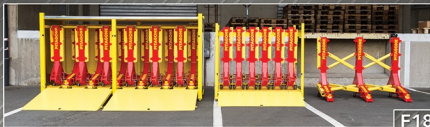
**CHRISTKINDLMARKT
MÜNCHEN**



MUNICH (GERMANY)



QUEBEC (CANADA)



F18



F11



PATEND GRANTED

THEREFORE, WHILE **SECURING** AN EVENT **PAY ATTENTION** TO :

- 1 Ask the certification of the products you're planning to use.
- 2 Ask certification at least for :
90° Attack
45° Attack
Side Attack
- 3 Check if the mobile barriers are certified in operational conditions (Wheels on)
- 4 Be sure the certification has been achieved on usual hard surfaces (No soft or fresh asphalt)
- 5 While checking certification, make sure that you get the guarantee that engine will be destroyed after impact (No restart possible)
- 6 Use in operational conditions equal to certification conditions is mandatory.
(Number of units, Wheels on, ...)
- 7 Current use of the product has to be identical to certification conditions (Number of units, wheels on for mobile product)

PITAGONE

Threat Management