

**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  $90^\circ$  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  
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## 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



ASTM INTERNATIONAL



# F11 AUSTRALIAN CRASH TEST



WORLD  
PREMIERE



Tested by the Australian authorities



Test Designation	Vehicle Mass	Test Speed	Test Angle
N1G	2,5 T 	64 km/h 40 mph	 90°

**CRASH TESTED IN REAL  
OPERATIONAL CONDITIONS**

F11 tested by  
**Australian** authorities

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



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



# 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



ASTM INTERNATIONAL



PREMIERES



PREMIERES



PREMIERES



PREMIERES

# 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

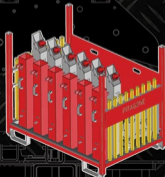
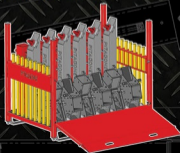
Width : 80 cm

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**

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

**CRASH TESTED IN REAL OPERATIONAL CONDITIONS**



# F18 CERTIFICATIONS



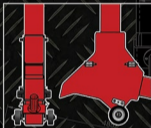
**ATTACK WITH AN OFFSET**



**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		
 90° with offset	 side attack 45°	



**WORLD PREMIERE**



# WALKTHRU

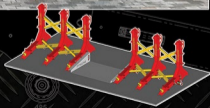
THE ULTIMATE COST-EFFECTIVE OPERATIONAL SOLUTION



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

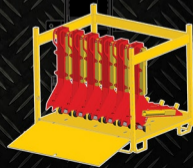
Height : 117 cm

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

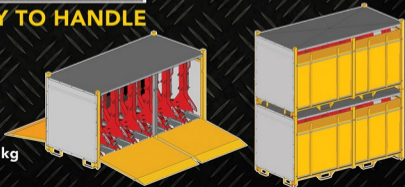
Height : 135 cm

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 - AILL 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)



**PITAGONE**

# SITUATIONS

**MUNICH** (GERMANY)



**ANDERLECHT** (BELGIUM)



**WESTMINSTER** (LONDON / UK)



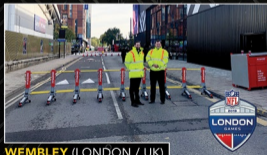
**GLOUCESTER** (NEW JERSEY / USA)

# SITUATIONS

**MELBOURNE** (AUSTRALIA)



**BRUSSELS** (BELGIUM)



**WEMBLEY** (LONDON / UK)



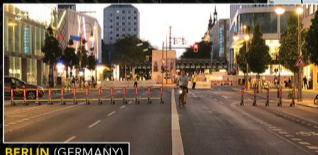
**JANDARMERIA** (ROMANIA)

# SITUATIONS

**BERLIN** (GERMANY)



**ANTWERP** (BELGIUM)



**BERLIN** (GERMANY)



**MONTREAL** (QUEBEC)

# SITUATIONS

**COPENHAGEN (DENMARK)**



**BUDAPEST (HUNGARY)**



**BUDAPEST (HUNGARY)**

**BRUSSELS (BELGIUM)**



# 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)



**PARIS St GERMAIN** (PARIS / FRANCE)



**SPA FRANCORCHAMPS** (BELGIUM)

# SITUATIONS

**TOUR DE FRANCE (FRANCE)**



**WERCHTER FESTIVAL (BELGIUM)**



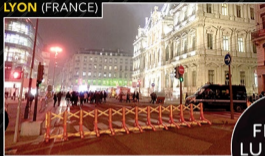
**TOUR DE FRANCE (FRANCE)**



**LIÈGE-BASTOGNE-LIÈGE (BELGIUM)**

# SITUATIONS

LYON (FRANCE)



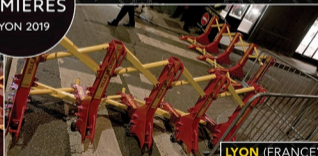
LYON (FRANCE)



FÊTE DES  
LUMIÈRES  
LYON 2019



LYON (FRANCE)



LYON (FRANCE)

# SITUATIONS

**LAS CANTERAS** (GRAN CANARIA / SPAIN)



**DORDRECHT** (HOLLAND)



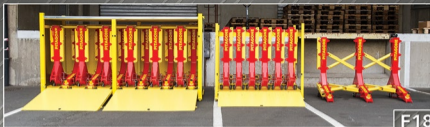
**CHRISTKINDLMARKT**  
**MÜNCHEN**



**MUNICH** (GERMANY)



**QUEBEC** (CANADA)



F18



F11



BSI IMPACT TESTED

**PAS  
68**

PAS 68:2013

BSI IMPACT TESTED

**IWA  
14**

IWA14-1



**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**

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## Threat Management

**PITAGONE** | Paepsem Boulevard, 16 | Tel: +32 2 896 63 33 - Fax: +32 2 896 63 34  
**Sa-Nv** | 1070 Brussels | Belgium | info@pitagone.com VAT: BE 0659 697 790