

# Atak™ Endura

A unique and innovative design for an optimal security solution



(\*) Patent granted

Thanks to the successful collaboration between ArcelorMittal and SNCF Réseau, a unique and innovative security solution has been developed.

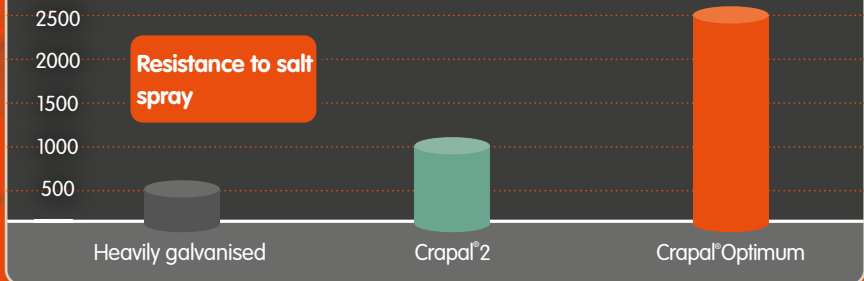
Designed based on their shared common knowledge, experience and know-how of the high security fencing markets, Atak™ Endura (\*) perfectly symbolises the progressive values shared by the SNCF network and WireSolutions to develop innovative solutions to answer today's recurring security issues (vandalism, damage, intrusion, theft etc).



### The Crapal®Optimum coating (Zn + Al + Mg):

Zinc provides sacrificial, active protection, while aluminium provides passive protection which slows down the reduction in coating thickness, thereby prolonging protection. The addition of magnesium helps stabilise the entire molecular

structure and gives the coating an even better resistance. Crapal®Optimum guarantees superior corrosion protection (service life five times longer than heavy galvanisation according to EN10244-2) in the most aggressive environments, even at cut ends and at welding points.



## Applications

Atak™ Endura (\*) is perfectly suitable for very sensitive sites such as:

Railway sites:

- > High speedlines
- > Regional lines in dense areas (urban and peri-urban)
- > Railways (combined transport)
- > Branched terminal installations of industrial sites
- > Port railways



Road sites:

- > Highways
- > Expressways

Sensitive sites :

- > SEVESO establishment
- > Port and airport area
- > Military zones
- > Photovoltaic power plants



# Advantages

## Economical

- > Fewer number of posts required compared to panel system saving steel weight, cost and time.
- > Reduced installation time due to the rapid unrolling of the 50m to 75m roll lengths allowing better budget management of installations.
- > Excellent anti-vandalism and anti-theft characteristics due to the robust properties of the mesh.

## Technical

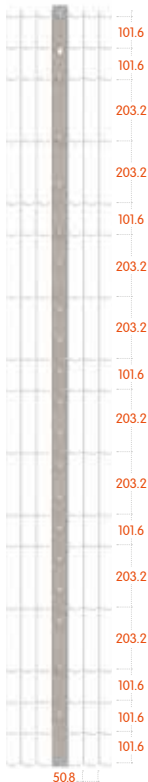
- > Excellent rigidity due to the large diameter and resistance of wires.

- > Highly adaptable across diverse terrains due to the versatile layout configurations.
- > High resistance to shocks and pressure (humans, animals).
- > Small mesh configuration (50.8mm) provides excellent anti-climb protection.
- > Optimal support and perfect line maintained even under pressure.
- > Comparable to the structure of a rigid panel system with no partial burial of the fence necessary.
- > Strong resistance to tearing.

- > Zn + Al + Mg coating offering a durably smooth surface, excellent adhesion.
- > No chipping or cracking of the coating when folded, providing very high corrosion resistance.

## Ecological

- > Reduced environmental impact; no securing of posts in concrete.
- > 100% recyclable product respecting the environment.
- > Exceptional life span of the Crapal®Optimum coating.



# Characteristics

Designation	Length	Height	Rolls per pallet	Weight
		2459 mm		
	(m)	(mm)		(kg)
	12 metres		6	74
	25 metres		4	147
245-17-5	50 metres	2459 mm	3	295
	75 metres		2	437

Defensive pins 20mm at the top.

Possibility to propose Atak™Endura (\*) in PE Nature RAL 6005 version

- > Ø Core wire 3.80 mm
- > Ø Coated wire 4.30 mm

## Mesh:

- > Ø Selvege wire: 3.8mm  
TS 400-550N/mm<sup>2</sup>
- > Ø Line wire: 3.8mm  
TS 400-550N/mm<sup>2</sup>
- > Ø Stay wire: 3.8mm  
TS 400-550N/mm<sup>2</sup>

## Coating:

- > Crapal®Optimum: 5 times the life span of heavily galvanised EN 10244-2 Class A.

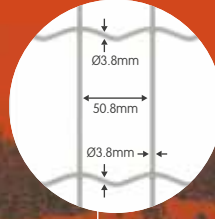


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Atak™ Endura (\*) is an innovative hybrid solution offering the resistance and robustness characteristics of a rigid panel system, with the advantages of installation flexibility over differing terrains.

Atak™ Endura (\*) offers new perspectives and solutions for road and rail infrastructure projects, as well as new alternatives for sensitive sites such as airport and military enclosures.



Beyond its technical properties, Atak™ Endura (\*) also offers assurance in economic performance. The roll form of the mesh allows rapid time saving installation, whilst the robustness and rigidity allows for fewer posts to be used (as much as 30-35% less when compared with some panel installations).

**E**conomic  
**N**ew  
**D**eterrent  
**U**niversal  
**R**esistant  
**A**lternative



## WireSolutions

50 years of experience in the manufacture of fences

- WireSolutions offers a diversified portfolio of high-performance fences, low and high carbon wires, wire ropes, steel fibres for reinforcing concrete, and technologically advanced corrosion resistant solutions.
- For over 50 years, WireSolutions has been a leading European supplier of agricultural, residential, industrial, road and rail fencing manufactured in our factories in Luxembourg, Poland, and the United Kingdom.
- SNCF Réseau (manager and maintainer of the French national rail network) and WireSolutions (designer and manufacturer of high-security fences), have shared their know-how, their experience, their constant quest for innovation and progress, to give substance to a brand-new type of fencing. Atak™ Endura (\*) is an original and innovative concept, designed to be meet the constraints and needs of their customers.



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