

Long carbon Europe  
WireSolutions



ArcelorMittal

# Product catalogue

## Fencing



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03

## WireSolutions

50 years experience in the manufacturing of fences

Subsidiary of ArcelorMittal, the world's leading steel and mining company, WireSolutions offers a diversified portfolio of low and high carbon wires, ropes and strands, steel fibres for concrete reinforcement, fences, nails and corrosion resistant solutions.

**For more than 50 years, WireSolutions has been a European leading supplier of fences in many applications such as agriculture, residential, industry, sport, motorway and railway. Our fences are manufactured in our plants in Luxembourg, Poland and United Kingdom.**

WireSolutions gives priority to quality and sustainability. Our fences benefit from the most advanced technologies regarding corrosion protection (Crapal® coating) and environment (Nature coating). WireSolutions relies on experienced women and men who are committed to offer excellence to their customers. This is validated by 3 standards:

- ▶ ISO 9001, Quality Management System
- ▶ ISO 14001, Environmental Management System
- ▶ OHSAS 18001, Health & Safety Management System

**Because every need is different, our technical and sales teams advise you to make the best choice.**

### What are the advantages of being a subsidiary of ArcelorMittal?

- ▶ Sustainable access to high quality raw materials
- ▶ Quality controls through the entire supply chain, from iron ore to finished products
- ▶ Development of advanced technologies with the support of ArcelorMittal R&D Centres
- ▶ Guarantee of a sustainable partner



**Our fences benefit from the most advanced technologies regarding corrosion and environmental protection.**

## The best protection

### Life span

The wire lifespan is determined by the lifetime of the coating layer that protects the wire.

### Corrosion

The coating is subject to damages depending on the corrosive potential of the air and on the aggressiveness of the chemicals used for treatments.

Pioneer in the manufacturing of the **heavily galvanised wire Crapo®** and the **zinc/aluminium wire Crapal®** which is today recognised worldwide, WireSolutions has never stopped working on the improvement of corrosion protection by developing the **zinc/aluminium/magnesium wire Crapal®Optimum**.

### The Crapal® coating

Zinc gives an active and sacrificial protection while aluminium provides passive protection in covering zinc and significantly slowing down its sacrificial reaction.

Addition of magnesium stabilises the whole molecular structure and gives the coating an even efficient resistance against corrosion. **Crapal®Optimum** ensures an optimal protection in the most aggressive environments even in cut ends and welding points.

### Properties

#### Increased lifespan

- ▶ Economy over time

#### Durable smooth surface

- ▶ Does not retain corrosive components

#### Excellent adhesion

- ▶ No peeling, no flaking when the wire is folded

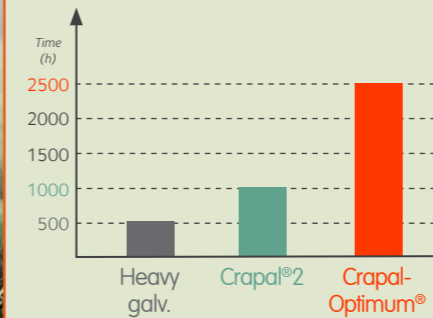
#### Constant protective layer all around the wire

- ▶ Only guarantee of an effective protection

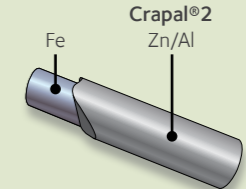
#### Corrosion protection efficiency with the environment in mind

- ▶ 100% recyclable

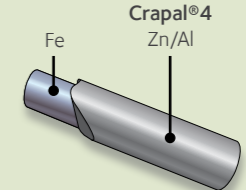
### Salt spray test resistance



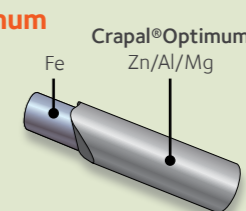
### Crapal®2



### Crapal®4



### Crapal®Optimum



WireSolutions continuously works on the improvement of corrosion protection

# Sologne® 4R\*

## Welded fence with Crapal® Optimum coating

### Product description

Heavy welded fence specifically for large animals (breeding and hunting)

- ▶ 50 cm under ground to guarantee non crossing of burrowing animals
- ▶ Tightened meshes at the bottom of the fence preventing animals from forcing the fence by snouting
- ▶ Complies with EN 10223-4 standard

\*4R means:

- ▶ Robustness – High strength wire (70 to 90 kg/mm<sup>2</sup>)
- ▶ Rigidity – Wire of large diameter
- ▶ Resistance to corrosion
- ▶ Resistance to shocks and animal thrust



### Applications

- ▶ Protection of farming, golf courses, etc.
- ▶ Wild boars parks, hunting areas



### Characteristics

- ▶ Other dimensions and meshes are available upon request

Fence with burried part for boars

Nomination	Height (cm)	Length (m)	Rolls/pallet
180-26-15	183	50	6

Fence with burried part for boars and deers

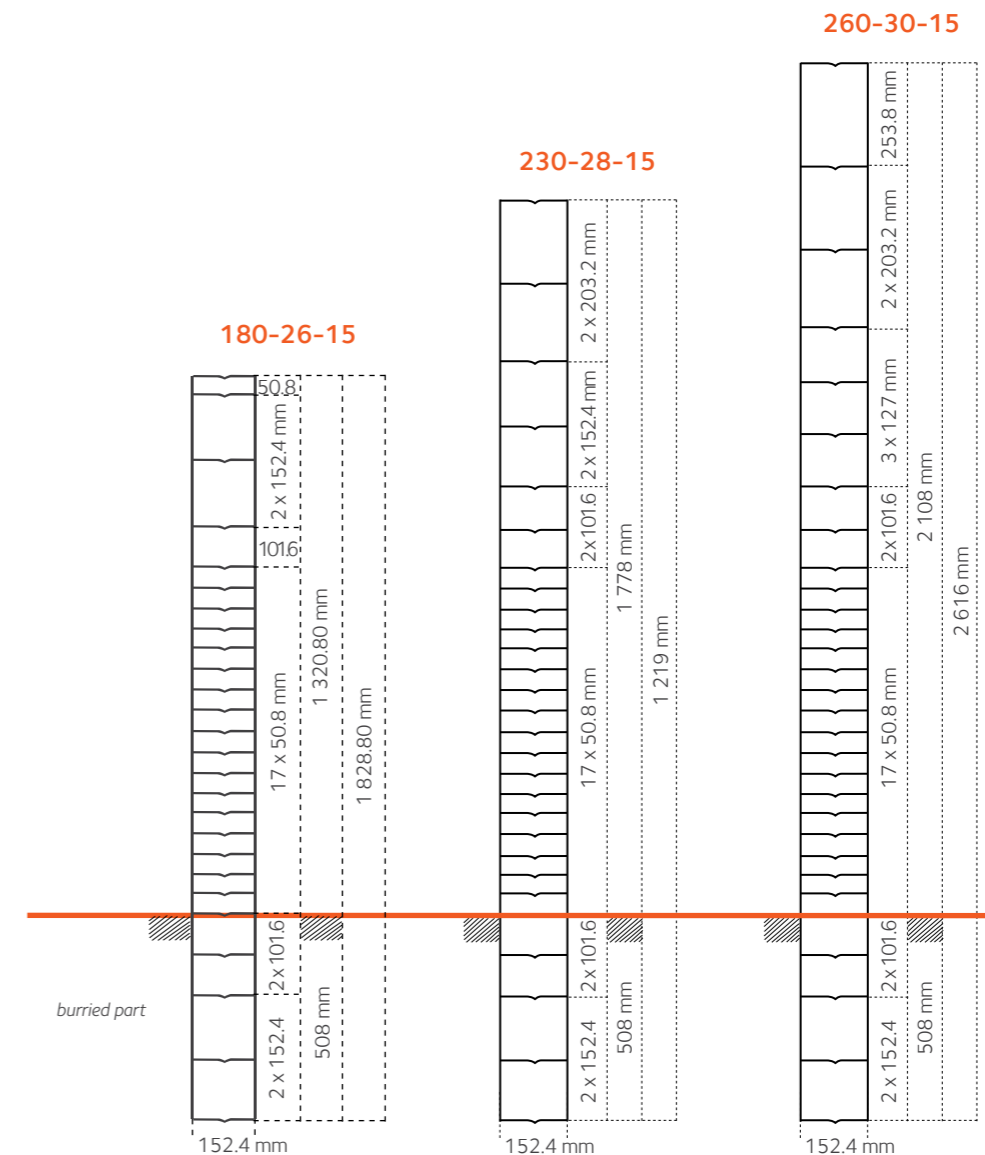
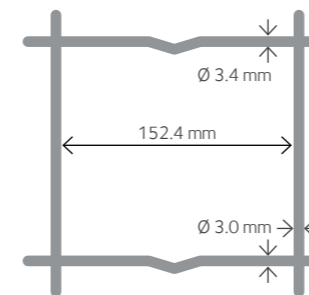
Nomination	Height (cm)	Length (m)	Rolls/pallet
230-28-15	229	50	6
260-30-15	261	50	6

### Mesh

- ▶ Top and bottom wires Ø 3.40 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Horizontal wires Ø 3.00 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Vertical wires Ø 3.00 mm R 40 to 55 kg/mm<sup>2</sup>

# Sologne® 4R\*

## Dimensions



# Atak™ ENDURA

NEW

## Welded fence with Crapal®Optimum coating

### Product description

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.

### Avantages

#### 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.

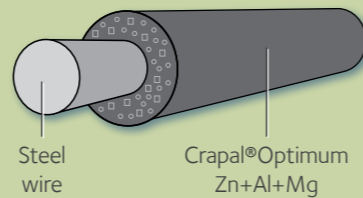
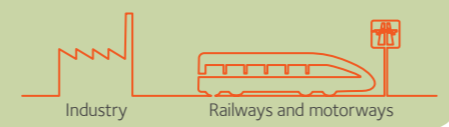
- > Highly adaptable across diverse terrains due to the versatile layout configurations.
- > High resistance to shocks and pressure (humans, animals).
- > Small mesh configuration (50.8mm) provides excellent anti-climb protection.
- > Optimal support and perfect line maintained even under pressure.
- > 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.

### Applications

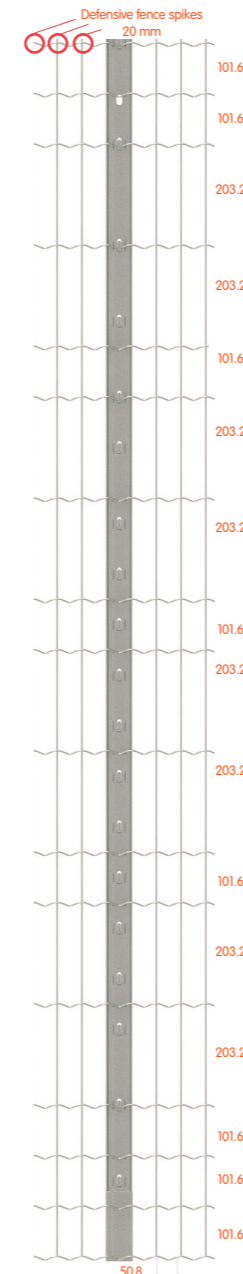


### Mesh

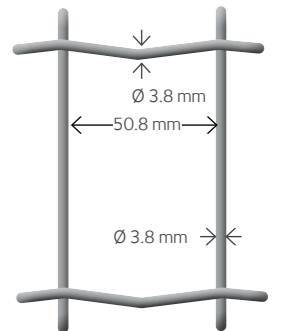
- > Selvege wire: 3.8mm TS 400-550N/mm<sup>2</sup>
- > Line wire: 3.8mm TS 400-550N/mm<sup>2</sup>
- > Stay wire: 3.8mm TS 400-550N/mm<sup>2</sup>

# Atak™ ENDURA

NEW



### Dimensions



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

Designation	Height	Length (m)	weight (kg)	Rolls per pallet
245-17-5	2458.4 mm	12.5	73.5	6
		25	100.5	4
		50	294.1	3
		75	436.1	2

## Welded fence with Crapal®Optimum coating

### Product description

Heavy welded fence with progressive meshes suitable for many applications.

- ▶ Robustness, rigidity and high resistance to corrosion are the main features of this upscale fence
- ▶ Wire of large diameter – High resistance horizontal wires
- ▶ Complies with EN 10223-4 standard



### Applications

- ▶ Industry
- ▶ Motorway
- ▶ Railway



### Characteristics

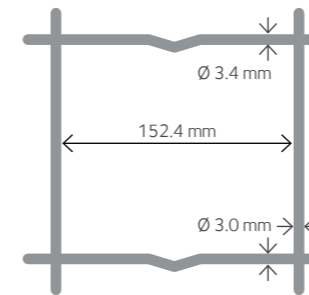
- ▶ Other dimensions and meshes are available upon request

Nomination	Height (cm)	Length (m)	Rolls/pallet
142-12-15	142.2	50	6
180-14-15	180.3	50	6
200-12-15	203.2	50	6
203-15-15	203.2	50	6
244-17-15	243.8	50	6
250-20-15	248.9	50	6

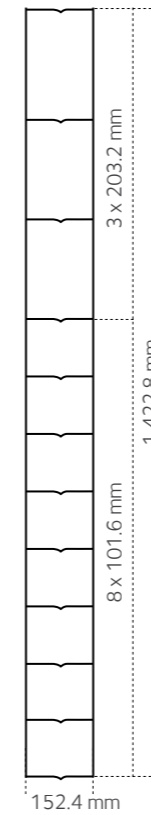
### Mesh

- ▶ Top and bottom wires  $\varnothing$  3.40 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Horizontal wires  $\varnothing$  3.00 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Vertical wires  $\varnothing$  3.00 mm R 40 to 55 kg/mm<sup>2</sup>

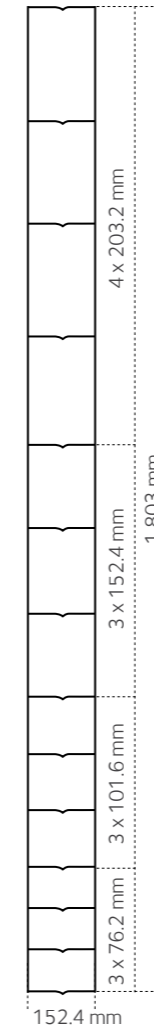
## Dimensions



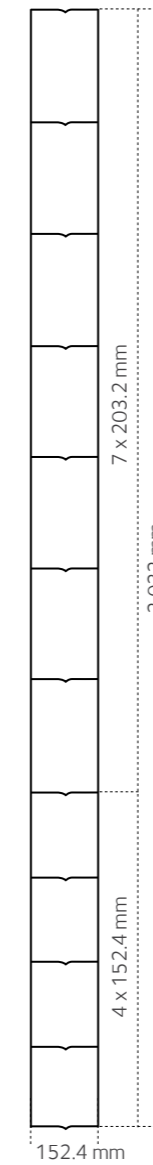
142-12-15



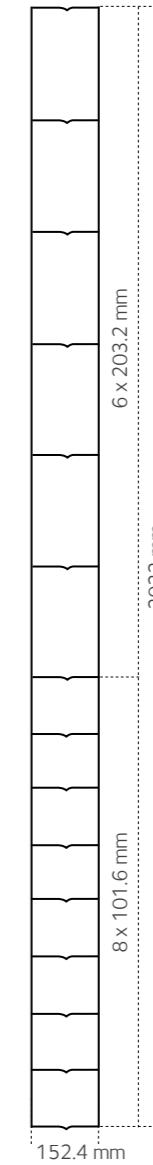
180-14-15



200-12-15



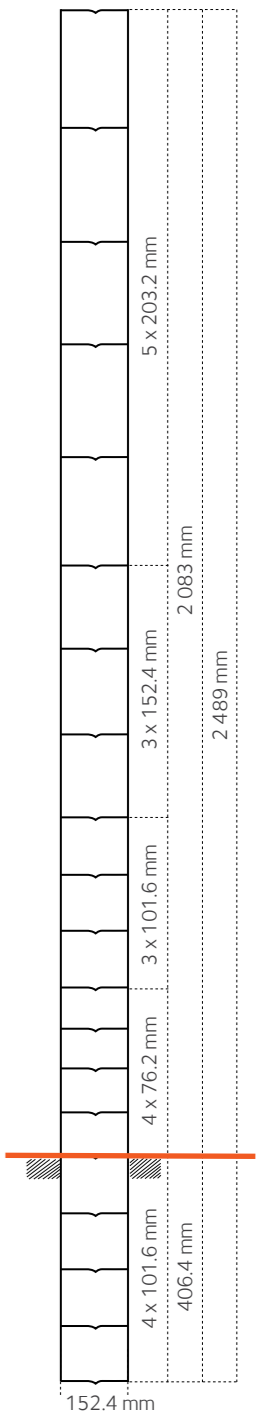
203-15-15



244-17-15



250-20-15



# Atak®Medium

## Welded fence with Crapal®2 coating

### Product description

Welded mesh in high tensile steel especially suitable for the protection of forestry

- ▶ Progressive meshes
- ▶ Horizontal wires in high tensile steel (70 to 90 kg/mm<sup>2</sup>)
- ▶ Product complies with EN 10223-4 standard



### Applications

- ▶ Agriculture
- ▶ Forestry
- ▶ Industry
- ▶ Housing



### Characteristics

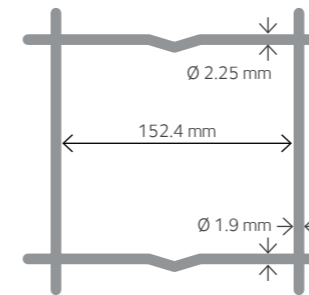
Nomination	Height (cm)	Length (m)	Rolls/pallet
120-11-15	121.9	50	12
150-13-15	149.9	50	12
150-18-15	149.9	50	12
180-20-15	180.3	50	12
200-21-15	200.7	50	12

### Mesh

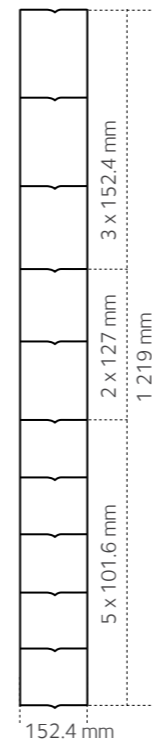
- ▶ Top and bottom wires Ø 2.25 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Horizontal wires Ø 1.90 mm R 70 to 90 kg/mm<sup>2</sup>
- ▶ Vertical wires Ø 1.90 mm R 40 to 55 kg/mm<sup>2</sup>

# Atak®Medium

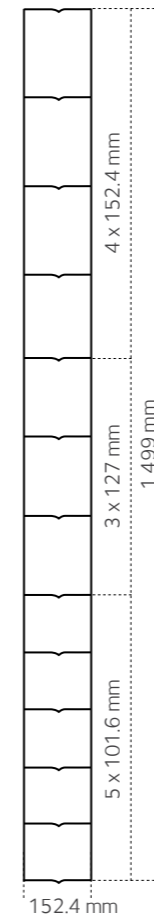
## Dimensions



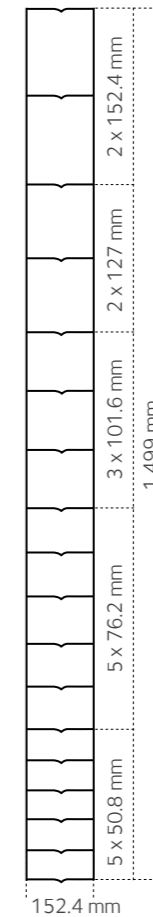
120-11-15



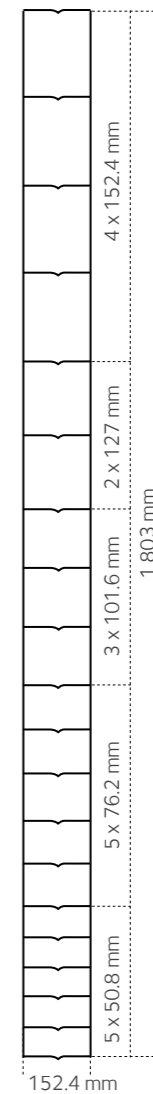
150-13-15



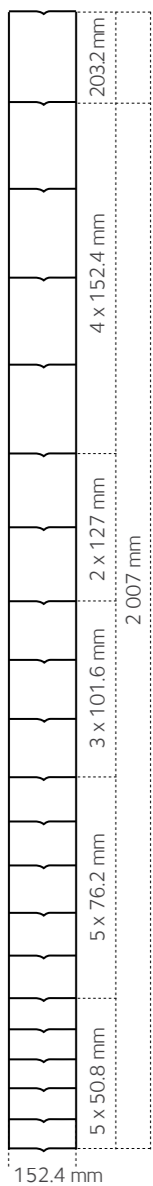
150-18-15



180-20-15



200-21-15



# Parco®Crapal®2

## Welded fence with Crapal®2 coating

### Product description

Welded fence with regular meshes

- ▶ Large diameter
- ▶ Product complies with EN 10223-4 standard



### Applications

- ▶ Industry
- ▶ Motorway
- ▶ Outdoor parkings



### Characteristics

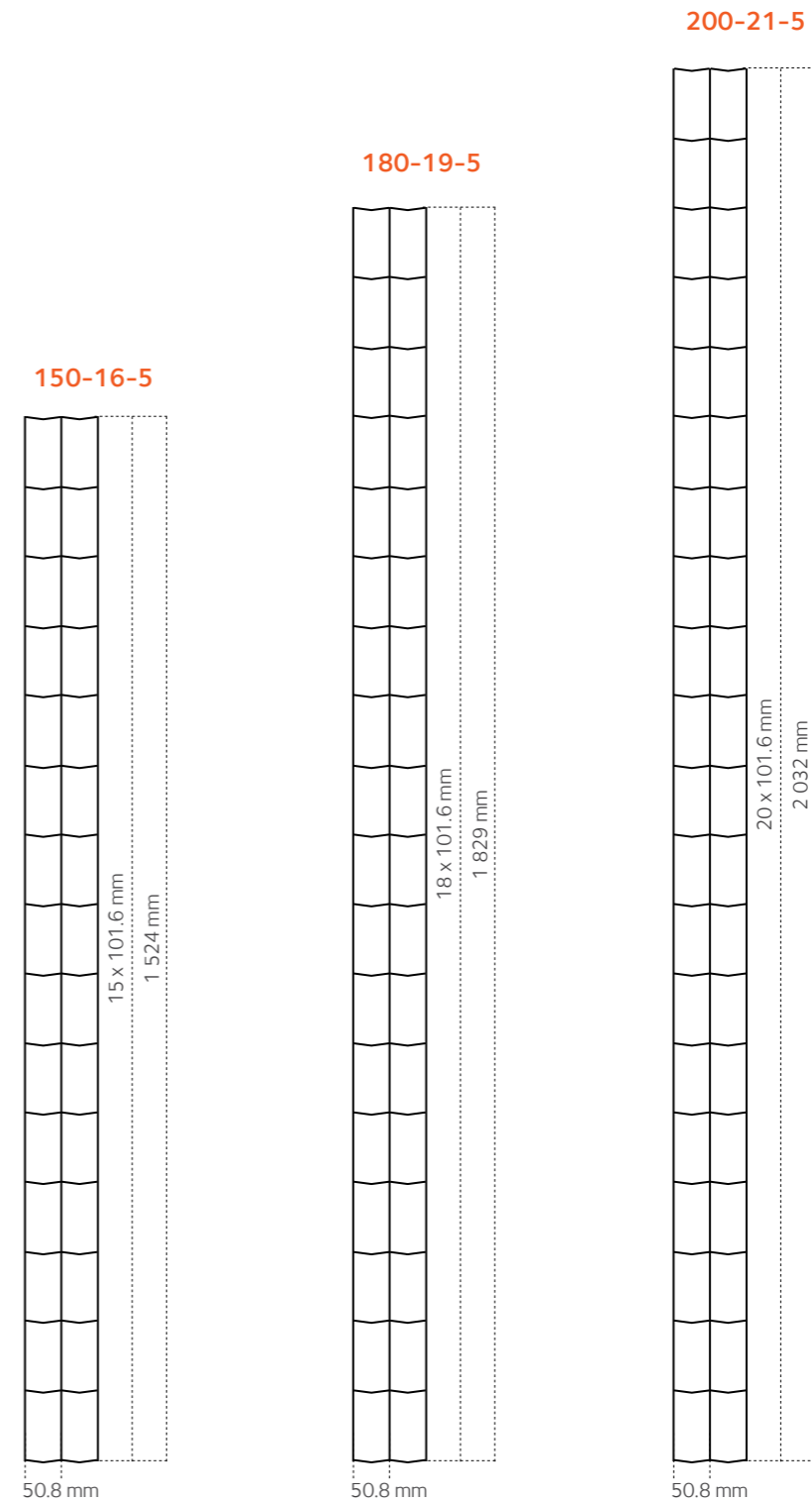
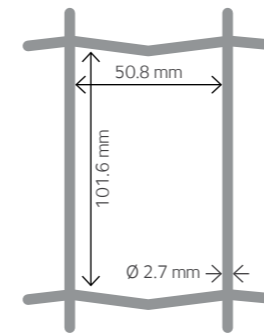
Nomination	Height (cm)	Length (m)	Rolls/pallet
150-16-5	152.4	25	9
180-19-5	182.9	25	9
200-21-5	203.2	25	9

### Mesh

- ▶ 101.6 x 50.8 mm
- ▶ Horizontal and vertical wires Ø: 2.70

# Parco®Crapal®2

## Dimensions





# Prairie® Medium

## Field fence with Crapal®2 coating

### Product description

Field fence specially developed for farms and meadows

- Very complete solution adapted to all kinds of pens and animals
- Heavy horizontal wires: 75 to 95 kg/mm<sup>2</sup>
- Product complies with EN 10223-5 standard



### Application

- Livestock farming



### Characteristics

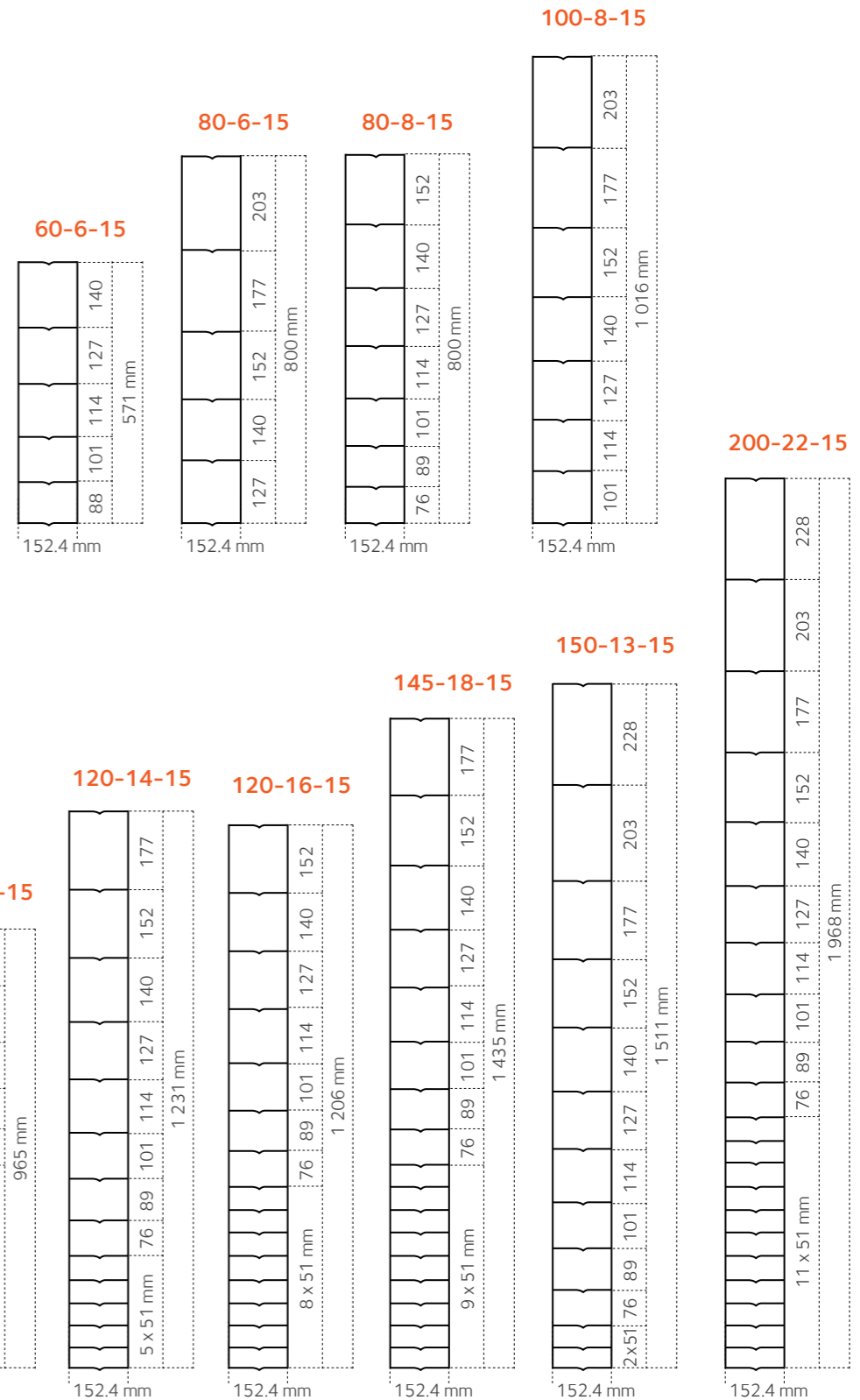
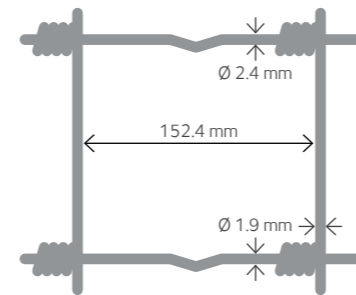
Nomination	Height (cm)	Length (m)	Rolls/pallet
60-6-15	57	50 to 100	20 to 12
80-6-15	80	50	20
80-8-15	80	50 to 100	20 to 12
100-8-15	102	50	20
100-9-15	98	50 to 100	20 to 12
100-10-15	103	50 to 100	20 to 12
100-10-30	103	50 to 100	20 to 16
100-15-15	97	50	16
120-14-15	123	50	16
120-16-15	121	50	16
145-18-15	144	50	16
150-13-15	151	50	20
200-22-15	197	50	16

### Mesh

- Top and bottom wires Ø 2.40 mm
- Horizontal wires Ø 1.90 mm
- Vertical wires Ø 1.90 mm

# Prairie® Medium

## Dimensions



# Prairie® Heavy

## Field fence with Crapal® Optimum coating

### Product description

#### Heavy field fence with progressive meshes

- Large diameters for increased resistance
- Product complies with EN 10223-5 standard



### Application

- Livestock farming



### Characteristics

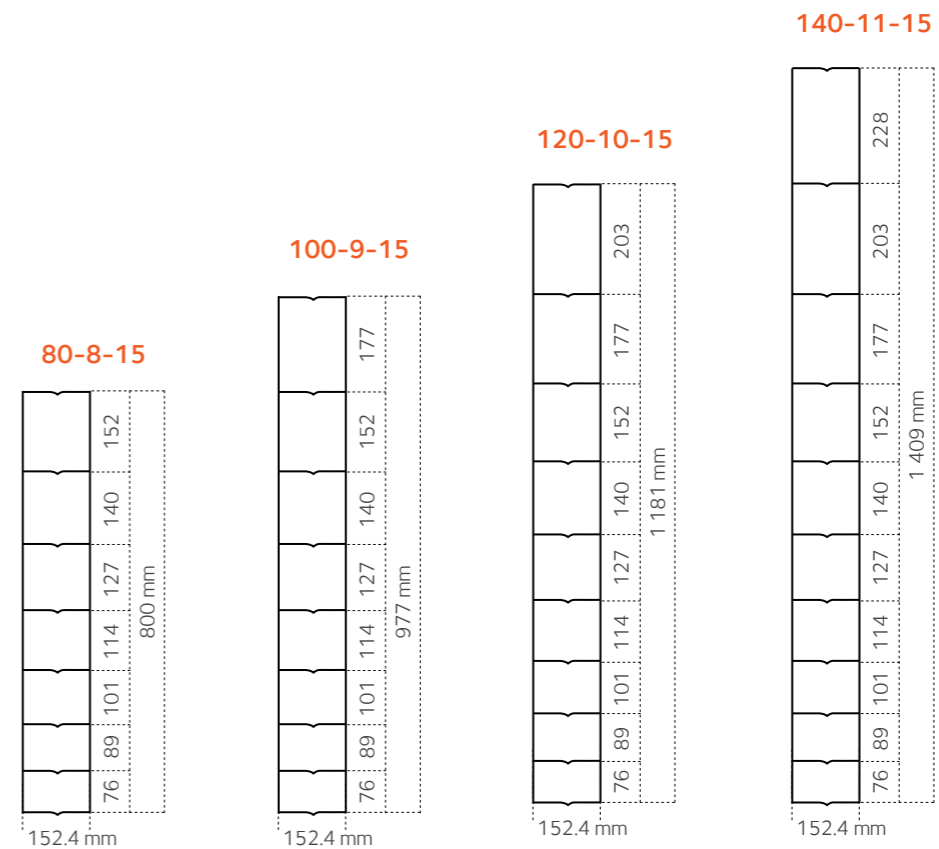
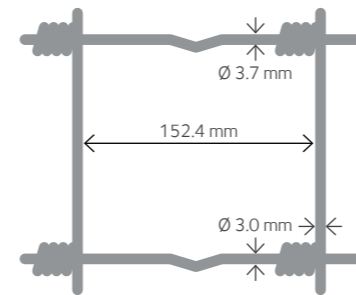
Nomination	Height (cm)	Length (m)	Rolls/pallet
80-8-15	80	50	12
100-9-15	98	50	12
120-10-15	118	50	12
140-11-15	141	50	12

### Mesh

- Top and bottom wires Ø 3.70 mm
- Horizontal wires Ø 3.00 mm
- Vertical wires Ø 3.00 mm

# Prairie® Heavy

## Dimensions



Scorpio®

Barbed wire with Crapal®2 coating

Product description

Manufactured with high tensile wire in Ø 1.70 mm, Scorpio® has a minimum breaking load of 440 kg (equivalent to a low carbon steel barbed wire with a diameter of 2.70 mm)

- ▶ Alternating twists lock the barbs at regular spacings of 10 cm preventing them from slipping
- ▶ Delivered in a protective cardboard with carrying handle
- ▶ Product complies with EN 10223-1 standard



Applications

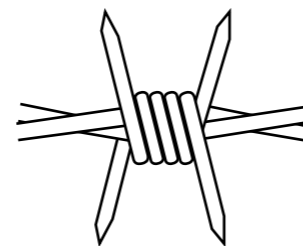
- ▶ Agriculture
- ▶ Motorway
- ▶ Industry



Characteristics

Wire Ø (mm)	Length (m)	Number of barbs	Space between barbs (cm)	Rolls/pallet
1.7	100	4	10	96
1.7	250	4	10	64
1.7	500	4	10	36

Barb



Rodeo®Crapal®2

Barbed wire with Crapal®2 coating

Product description

Traditional barbed wire with two or four barbs spaced at 10 cm

- ▶ Supplied with a protective cardboard with carrying handle
- ▶ Product complies with EN 10223-1 standard



Application

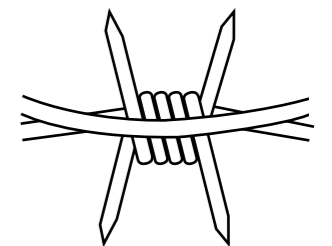
- ▶ Livestock farming



Characteristics

Wire Ø (mm)	Length (m)	Number of barbs	Space between barbs (cm)	Rolls/pallet
2.2	200	4	10	48
2.4	200	4	10	48
2.7	200	4	10	48
2.7	200	2	10	60

Barb



## Wire for electric fencing

### Crapal® Optimum coating

#### Product description

Special wire for permanent and semi-permanent electric fencing  
A solution suitable for all needs

- ▶ Commercial low carbon steel (coils of 5 kg)
- ▶ High carbon steel offering an increased mechanical strength supplied (coils of 25 kg)
- ▶ Reinforced electrical conductivity due to additional aluminium in the coating
- ▶ Does not hurt animal coat
- ▶ Eco-friendly product



#### Applications

- ▶ Livestock farming
- ▶ Industry
- ▶ Security



#### Characteristics

- ▶ Please contact us for further information

##### Coils of 5 kg – Inside diameter 270 mm

Wire diameter (mm)	Length (m)	Weight (kg)	Resistance (kg/mm <sup>2</sup> )
1.6	300	5	40/50
1.8	250	5	40/50

##### Coils of 25 kg delivered in bundles of 500 kg – Inside diameter 600 mm

Wire diameter (mm)	Length (m)	Weight (kg)	Resistance (kg/mm <sup>2</sup> )
1.6	1600	25	100/120
2.5	650	25	100/120

## Accordo™ Green

### Chain link fence

#### Product description

Chain link fence produced from galvanised wire with a protective organic coating

- ▶ Diamond-shaped mesh suitable for erection on broken grounds
- ▶ Product complies with EN 10223-6 standard



#### Applications

- ▶ Industry
- ▶ Residential
- ▶ Sport

#### Coating

- ▶ Organic coating with galvanised wire core

#### Standard colour

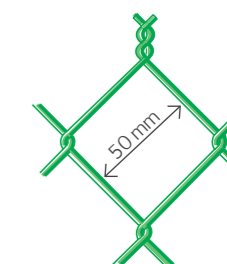
- ▶ Green RAL 6005
- ▶ Black RAL 9005 on demand

#### Characteristics

- ▶ Galvanised Accordo™ and Accordo™ Crapal®4 are available upon request

Mesh size (mm)	Wire diameter (mm)	Height (cm)	Length (m)
50	2.8	100	25
50	2.8	120	25
50	2.8	150	25
50	2.8	175	25
50	2.8	200	25
50	3.1	100	25
50	3.1	120	25
50	3.1	150	25
50	3.1	175	25
50	3.1	200	25

#### Mesh



# Avigal™

## Hexagonal netting

### Product description

#### Hot dipped galvanised fence with hexagonal netting

- ▶ Can be used as pen for small animals
- ▶ Its flexibility means it has many uses
- ▶ Product complies with EN 10223-2 standard



### Applications

- ▶ Agriculture

### Coating

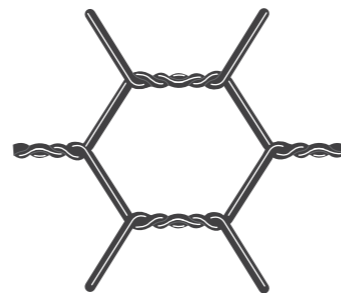
- ▶ Hot dipped galvanised

### Characteristics

- ▶ Other sizes and lengths on demand

Mesh size (mm)	Wire diameter (mm)	Height (cm)	Length (m)
13	0.7	50	25
13	0.7	100	25
25	0.8	50	25
25	0.8	100	25
25	0.8	100	50
25	0.8	120	50
25	0.8	150	50
25	0.8	200	50
40	0.9	50	50
40	0.9	100	50
40	0.9	120	50
40	0.9	150	50
50	1.0	100	50

### Netting



# Quadra™

## Heavily galvanised welded fence

### Product description

#### Heavily galvanised welded fence with small square meshes

- ▶ **Many applications:** DIY, industry, protection of small wildlife, etc.
- ▶ Its excellent resistance to deformation and its anticorrosion properties makes it a very popular product



### Applications

- ▶ Very diverse: agriculture, industry, leisure, etc.

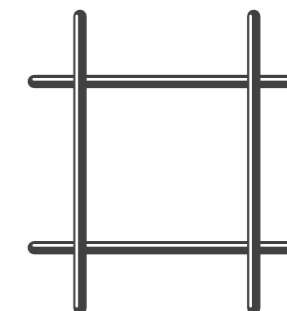
### Coating

- ▶ Heavily galvanised

### Characteristics

- ▶ Product delivered in rolls of 25 or 10 m
- ▶ Meshes from 6.5 x 6.5 up to 25 x 25 mm
- ▶ Please contact us for further information

### Mesh



## Carrelux® Annealed

### Welded mesh in very low annealed wire

#### Product description

Carrelux® is used in Construction, mainly as primary reinforcement for cementitious floor screeds

- ▶ Product complies with NF P61-202 (DTU 52.1)
- ▶ A professional product easy to carry, store and handle
- ▶ Large programme with sizes up to 150 cm



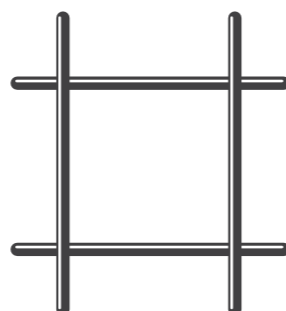
#### Applications

- ▶ Construction

#### Quality

- ▶ Annealed

#### Squared mesh



#### Characteristics

##### Standard types

	Min. weight (m <sup>2</sup> )	Mesh size (mm)	Wire Ø (mm)	Width (cm)	Roll length (m)	Surface (m <sup>2</sup> )	Rolls/pallet
E	220	50 x 50	0.9	100	100	100	12
F	325	100 x 100	1.8 x 1.4	100	100	100	12
G	650	50 x 50	1.8 x 1.4	100	50	50	12

## Conditioning wire

### For many applications

#### Characteristics

Packaging in traditional coils of 5 or 25 kg

Coils of 5 kg strapped together in 5 (= 25 kg)

- ▶ Ø 0.80 to 1.80 mm supplied in 5 bundles (= 125 kg) – Order unit per dimension
- ▶ Ø 2.00 to 6.00 mm supplied in 10 bundles (= 250 kg) – Order unit per dimension

Coils of 25 kg supplied in 10 bundles (= 250 kg) – Order unit per dimension

Wire diameter (mm)	Inside diameter – Coils (mm)	Weight (kg)
1.60	from 250 to 280	5 or 25
1.80	from 250 to 280	5 or 25
2.00	from 550 to 600	5 or 25
2.20	from 550 to 600	5 or 25
2.40	from 550 to 600	5 or 25
2.70	from 550 to 600	5 or 25
3.00	from 550 to 600	5 or 25
3.40	from 550 to 600	5 or 25
3.80	from 550 to 600	5 or 25

#### Applications

- ▶ Agriculture
- ▶ Industry
- ▶ Construction

#### Coatings

- ▶ Commercially galvanised
- ▶ Heavily galvanised
- ▶ Black annealed



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