Moreda Riviere Trefilerías

AGRICULTURAL FENCING

MRT
MOREDA RIVIERE
TREFILERIAS

MRT PRESENTATION

MRT IN ESSENCE

LEADER
IN SPAIN

2 FACTORIES
265.000 m²

400+
EMPLOYEES

60+
COUNTRIES

150+ YEARS
OF EXPERIENCE

Moreda Riviere Trefilerías (MRT) is the leading fencing manufacturer in Spain and one of the main references in Europe. MRT is member of AFA, the American Fence Association.

Respect and care of the environment are fundamental to the MRT ethos. But this is nothing new! As a pioneer in its sector since 1999, MRT holds ISO 14001:2015 certification for the manufacture of low carbon fences and wires.

Safety a priority

MRT constantly strives to ensure an injury and illness-free work environment for everyone who participates in its activities. The Occupational Health and Safety Management System (SG-SST) has a whole series of programs implemented far beyond the legal requirements, emphasising the priority given to this key objective. For example, the efforts undertaken to completely eliminate the use of triglycidyl isocyanurate (TGIC) in the manufacture of its plasticized products led to the awarding of ISO 45001:2018 certification.

Our values

Honesty - Humility - Creative perseverance
Groundbreaking approach - Teamwork - Passion

THE STRENGTH OF CELSA

5+ million tonnes produced annually

7+ million tonnes recycled annually

10,000+ direct and subcontracted professionals employed

6,000+ million euros of annual turnover

We are part of the Celsa group, the leader in Europe for the production of circular steel with low CO_2 emissions. It produces steel in electric arc furnaces, using the most sustainable and energy-efficient technology from recycled ferrous scrap. Celsa is already a company with low-CO_2 emissions and the first producer of circular steel in Europe.

Transforming today.
Strengthening tomorrow.

VERTICAL INTEGRATION AND CIRCULARITY

The group is increasingly vertically integrated, both upstream and downstream. This integration throughout the steel production chain allows for synergies to be achieved more efficiency; both environmentally and energy-wise, with the facilities to implement continuous improvement with excellent traceability throughout.

MRT participates in this chain, transforming wire rod manufactured by group companies into wires and fences. Each wire rod already has its own Environmental Product Declaration (EPD) with good results. The wire rods used to manufacture products such as wire, nails, staples, rods, industrial panels, welded mesh, chain link, knotted mesh and wire fencing panels have at least 85% recycled material.

celsa circular steel

Wire diameter		
Ga	in	mm
00	0,331	8,41
0	0,307	7,79
1	0,283	7,19
1 ½	0,273	6,93
2	0,263	6,67
2 ½	0,253	6,43
3	0,244	6,19
3 ½	0,235	5,97
4	0,225	5,72
4 ½	0,216	5,49
5	0,207	5,26
5 ½	0,200	5,08
6	0,192	4,88
6 ½	0,185	4,70
7	0,177	4,50
7 ½	0,170	4,32
8	0,162	4,11
8 ½	0,155	3,94
9	0,148	3,77
9 ½	0,142	3,61
10	0,135	3,43
10 ½	0,128	3,25
11	0,121	3,06
11 ½	0,113	2,87
12	0,106	2,68
12 ½	0,099	2,51
13	0,092	2,32
13 ½	0,086	2,18
14	0,080	2,03
14 ½	0,076	1,93
15	0,072	1,83
15 ½	0,067	1,70
16	0,063	1,59

Linear measure	
1 cm	0.3937 in
1 in	2.54 cm
1 m	3.28 ft
1 ft	30.48 cm
1 m	39.37 in
1 m	1.0936 yd
1 yd	0.9144 m
1 m	0.1988 rods
1 rod	5.029 m
1 km	0.621 mile
1 mile	1.609 km

Square Measure	
1 cm^2	0.155 in^2
1 in^2	6.452 cm^2
1 m^2	10.076 ft^2
1 ft^2	0.0929 $m2^2$
1 yd^2	0.8361 m^2
1 acre	160 sq. rods
1 sq. rod	0.00625 acre
1 hectare	2.47 acres
1 acre	0.4047 hectare
1 km^2	0.386 sq. mile
1 sq. mile	2.59 km^2

Volume measure	
1 cm^3	0.061 in^3
1 in^3	16.39 cm^3
1 m^3	35,314 ft^3
1 ft^3	0.0283 m^3
1 m^3	1.308 yd^3
1 yd^3	0.7646 m^3
1 stere	0.2759 cord
1 cord	3.624 steres
1 lt	0.908 quarts dry
1 quart dry	1.101 lt
1 lt	1.0567 quarts liq
1 quart liq	0.9463 lt
1 lt	0.26417 gal
1 lt	0.113 pecks
1 gal	37.85 lt
1 peck	88.1 lt
1 bushel	35.24 lt

Weight measure	
1 gr	0.03527 oz
1 oz	28.35 gr
1 kg	2.2046 lb
1 lb	0.4536 kg
1 met. ton	0.984 Eng. ton
1 Eng. ton	1.016 met.ton

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HJ MRT® FIELD FENCE

The HJ MRT® Field Fence is recommended for fencing farms. Remains perfectly straight and flat, even with cattle impacts.

Meets or exceeds ATSM-A-116.

Stock fencing characterized by its progressive mesh.

Horizontal wires come with crimps between each knot to add tension to the wire and assist with water run off.

Hinge joint

Available coatings:

- Galvanized Class I
- Galvanized Class III
- Galvanized Class III + ECOVER®
- ZnAl® (95% Zinc + 5% Aluminum)

There are three options to choose from: Light, Strong and Super Strong.

OPTION	HORIZONTAL EXTREME WIRES		HORIZONTAL INTERMEDIATE WIRES		VERTICAL WIRES	
	DIAMETER (Ga)	RESISTANCE (Kg/mm²)	DIAMETER (Ga)	RESISTANCE (Kg/mm²)	DIAMETER (Ga)	RESISTANCE (Kg/mm²)
LIGHT	12 ½	≥ 71	14 ½	≥ 71	14 ½	45- 55
STRONG	11	≥ 71	12 ½	≥ 71	12 ½	45- 55
SUPER STRONG	8 ½	≥ 71	11	≥ 71	11	45- 55

OPTION	STYLE	HEIGHT (IN)	STRANDS	STAY SPACING (IN)	LENGTH (FT)
LIGHT	726- 6	26	7	6	330
	726- 12	26	7	12	330-660
	832- 6	32	8	6	330
	832- 12	32	8	12	330-660
	939- 6	39	9	6	330
	939- 12	39	9	12	330-660
	1047- 6	47	10	6	330
	1047- 12	47	10	12	330-660
STRONG	726- 6	26	7	6	330
	726- 12	26	7	12	330-660
	832- 6	32	8	6	330
	832- 12	32	8	12	330-660
	939- 6	39	9	6	330
	939- 12	39	9	12	330-660
	1047- 6	47	10	6	330
	1047- 12	47	10	12	330-660
SUPER STRONG	632- 6	32	6	6	165
	632- 12	32	6	12	
	832- 6	32	8	6	
	832- 12	32	8	12	
	1156- 6	56	11	6	
	1156- 12	56	11	12	

HJ MRT® HIGH TENSILE FIELD FENCE

The HJ MRT® High Tensile Field Fence is the ideal solution for fencing farms, highways and railroads, and it's resistant to cattle impacts.

The knot allows fencing to give under pressure and spring back into shape.

Meets or exceeds ATSM-A-116.

Stock fencing characterized by its progressive mesh.

Horizontal wires come with crimps between each knot to add tension to the wire and assist with water run off.

Hinge joint

Available coatings:

- Galvanized Class III
- Galvanized Class III + ECOVER®
- ZnAl® (95% Zinc + 5% Aluminum)

There are three options to choose from: Light HT and HT.

OPTION	HORIZONTAL EXTREME WIRES		HORIZONTAL INTERMEDIATE WIRES		VERTICAL WIRES	
	DIAMETER (Ga)	RESISTANCE (Kg/mm²)	DIAMETER (Ga)	RESISTANCE (Kg/mm²)	DIAMETER (Ga)	RESISTANCE (Kg/mm²)
LHT	12 ½	≥ 107	14 ½	≥ 107	14 ½	45- 55
HT	12 ½	≥ 120	12 ½	≥ 120	12 ½	≥ 61

OPTION	STYLE	HEIGHT (IN)	STRANDS	STAY SPACING (IN)	LENGTH (FT)
LHT	726- 6	26	7	6	330
	726- 12	26	7	12	330-660
	832- 6	32	8	6	330
	832- 12	32	8	12	330-660
	939- 6	39	9	6	330
	939- 12	39	9	12	330-660
	1047- 6	47	10	6	330
	1047- 12	47	10	12	330-660
HT	726- 6	26	7	6	330
	726- 12	26	7	12	330-660
	832- 6	32	8	6	330
	832- 12	32	8	12	330-660
	939- 6	39	9	6	330
	939- 12	39	9	12	330-660
	1047- 6	47	10	6	330
	1047- 12	47	10	12	330-660

FK MRT® FIX KNOT FIELD FENCE

Made with high tensile horizontal wires.

Class A - Heavy galvanized wires according to ATSM-A-116.

Progressive geometry as standard, non-progressive is an option.

Horizontal wires come with crimps between each knot to add tension to the wire and assist with water run off.

Fix Knot

Available coatings:

- Galvanized Class III
- Galvanized Class III + ECOVER®
- Galvanized Class III + ECOBLACK
- ZnAl® (95% Zinc + 5% Aluminum)

There are five options to choose from: Light, Medium Light, FK, Medium, Heavy

OPTION	HORIZONTAL EXTREME WIRES	HORIZONTAL INTERMEDIATE AND VERTICAL WIRES	KNOT WIRES
	DIAMETER (Ga)	DIAMETER (Ga)	DIAMETER (Ga)
LIGHT	12 ½	14	13 ½
MEDIUM LIGHT	11	14	13 ½
FK	12 ½	12 ½	13 ½
MEDIUM	11	12 ½	13 ½
HEAVY	10	12 ½	13 ½

OPTION	STYLE	HEIGHT (IN)	STRANDS	STAY SPACING (IN)	LENGTH (FT)
FK	842- 6	42	8	6	330’ or 660’
	842- 12	42	8	12	
	1348- 6	48	13	6	
	1348- 12	48	13	12	
	1748- 6	48	17	6	
	949- 6	49	9	6	
	949- 12	49	9	12	
	2096- 6	96	20	6	
	2096- 12	96	20	12	
	23120-6	120	23	6	

XK MRT® FIELD FENCE

Unobtrusive knot manufactured through a pressure bonded method to ensure optimal strength vs normal woven knots found on other variants of AG fence.

The horizontal and vertical wires are continuous. It guarantees resistance to impact and minimal long-term maintenance.

Line wires come with crimps between knots to add tension to the wire and assist with water run off.

Optional hinge joint can be added to help prevent burrowing or scaling.

Also “FreeEnd Roll” optional: 5.9” horizontal wires can be left at the end to link easily the rolls.

- ASTM A641, Zinc-Coated (Galvanized) Carbon Steel Wire.
- ASTM A856, Zinc-5 % Aluminum-Mischmetal Alloy-Coated Carbon Steel Wire.

X Knot

Available coatings:

- Galvanized Class I
- Galvanized Class III
- Galvanized Class III + ECOVER®
- ZnAl® (95% Zinc + 5% Aluminum)

There are two options to choose from: XK MRT® and XK MRT® Heavy.
And there are two conditions:

- High Tensile:

- Soft:

OPTION	CONDITION	TOP & BOTTOM WIRES (GA)	HORIZONTAL WIRES (GA)	VERTICAL WIRES (GA)	KNOT WIRES (GA)
XK MRT®	HT or Soft	12½	12½	12½	12½
XK MRT® Heavy	HT or Soft	10	12½	12½	12½

NON CLIMB HORSE FENCE

CONDITION	TYPE	Nº OF LINE WIRES	HEIGHT (IN)	GEOMETRY (IN)	LENGTH (FT)
HT or Soft	1348	13	48"	4" x 2"	100', 200' or 300'
	1660	16	60"	4" x 2"	
	1972	19	72"	4" x 2"	

Other geometries available subject to minimun order.

NON CLIMB SHEEP & GOAT FENCE

CONDITION	TYPE	Nº OF LINE WIRES	HEIGHT (IN)	GEOMETRY (IN)	LENGTH (FT)
HT or Soft	1348	13	48"	4" x 4"	100' or 330'
	1660	16	60"	4" x 4"	
	1972	19	72"	4" x 4"	

Other geometries available subject to minimun order.

CHAIN LINK

The MRT chain link fence, featured by its diamond shaped, is an economical solution for all kind of applications.

- Knuckled and barbed end available.
- Compacted rolls with unrolling wire and paper protection.
- Flexibility when installing.
- Long rolls: 32.8' / 41' / 49.2' / 59' / 65.6' / 82'.
- Multiple coating possibilities including different PVC coating colors.

Knuckled end

Barbed end

Meets or exceeds ASTM-A-641.

GALVANIZED

ROLL	MESH SIZE (IN)*	POSSIBLE WIRE DIAMETERS (GA)	ROLL POSSIBLE HEIGHTS (FT)
Compacted roll	1½ x 1½ or 2 x 2	from 15 to 12	from 2½ to 8⅛
	2 x 2	11½	from 2⅛ to 8⅛
Non compacted roll**	1¾ x 1¾	from 15 to 13	from 2⅛ to 6½
	1½ x 1½ or 2 x 2	15	from 1⅜ to 10
		from 14 to 12	from 1⅜ to 13
		from 11½ to 9***	from 2⅛ to 10

* Other dimensions available upon request.
** Check conditions.
*** For 1½ x 1½ meshes only available in 11½ Ga.

PVC COATED

ROLL	MESH SIZE (IN)*	POSSIBLE WIRE DIAMETERS (GA)	ROLL POSSIBLE HEIGHTS (FT)
Compacted roll	2 x 2	13	from 3¼ to 6½
	1½ x 1½ or 2 x 2	12	from 2½ to 8⅛
		11½	
		10½	
Non compacted roll**	1½ x 1½ or 2 x 2	12	from 1⅜ to 13
		11½	
		10½	
		9	
		7	from 2⅛ to 10

* Other dimensions available upon request.
** Check conditions.

ERIZO® HARD BARBWIRE

The Erizo® Barbwire is recommended for cattle and livestock.

- Meets ASTM-A-121

ROLL LENGTH (FT)	1,320
WIRE	High tensile (tensile strength >142.000 psi) Barbwire coiled into two twisted wires
WIRE DIAMETER (GA)	15 ½
FINISH	Class III Galvanized / ECOVER® / ZnAl®
DISTANCE BETWEEN BARBS (IN)	3 - 5

BRAVO® SOFT BARBWIRE

The Bravo® Barbwire is recommended for crop protection.

- Meets ASTM-A-121

ROLL LENGTH (FT)	328- 820
WIRE	Fixed position interlocking barb
WIRE DIAMETER (GA)	15
FINISH	Class I Galvanized / Class III Galvanized ECOVER® / ZnAl®
DISTANCE BETWEEN BARBS (IN)	3 - 6

BARBLESS WIRE

The MRT barbless wire is recommended for horses enclosures, in order to do not damage their thinner-skinned.

- Meets ASTM-A-121

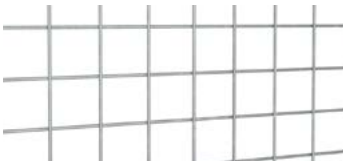
ROLL LENGTH (FT.)	656
DIAMETER (GA)	12 ½
FINISH	Class III Galvanized

ELECTRO-WELDED MESH

The MRT Electro-welded mesh is a great multipurpose solution, specially for small animal cages and lawn and garden fencing.

- Meets ASTM-A-641

MESH (IN)	¼ x ¼ - ½ x ½ - ⅝ x ⅝ - ½ x ½ - ⅝ x ⅝ - ¾ x ¾ - 1 x ½ 1 x 1 - 2 x 1 - 2 x 2 - 4 x 2
WIRE (GA)	from 22 ¾ to 11 ¼
HEIGHT (IN)	from 20 to 80
ROLL (FT.)	16.4 - 82 - 98.4
FINISH	Class I Galvanized / Class III Galvanized / PVC Coated



WIRE NETTING

The MRT wire netting is recommended for use in small animal enclosures, cage construction. This type of netting provides predator-proof protection for domestic fowl and gardens. It is galvanized before weaving.

MESH (IN)	½ - ⅝ - ¾ - 1 - 1¼ - 1⅜ - 2
HEIGHT (IN)	19.7 - 39.4 - 59.1 - 78.74
ROLL (FT.)	32.8 - 164
FINISH	Comercial Class / PVC Coated

STAPLES

The MRT FENCE STAPLES have plenty of holding power. The sharp point makes them easy to drive into wood and to be held securely in place.

- The hooks distance is wider, enabling to secure thicker wires/cables.
- Extra holding power on wood posts.
- Easy to handle and install.
- U staple design does not scratch on wire coating.
- Meets FF-N-105B

LENGTH (IN)	1 - 1.18 - 1.38 - 1.58
DIAMETER (GA)	11⅜ - 11 - 10¼ - 10 - 9 - 8½
CARDBOARD BOX (LB)	11 - 22 - 44 (plastic buckets) 39.68 (6 packs of 6.61)

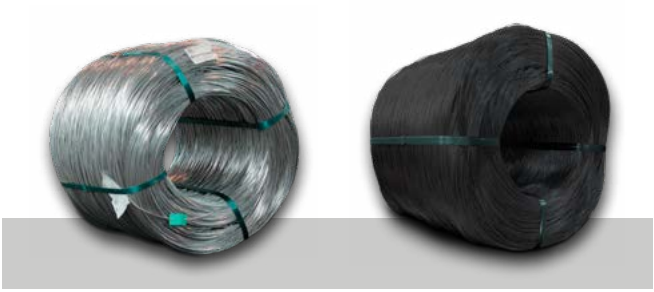
Double hook Barbed Staple

Barbless Staple

WIRE

We have 150 years of experience in wire drawing and we have a wide range of steel wires produced in our own factories.
As wire drawers, we can manufacture an enormous variety of wires in many formats, diameters or compositions.

Composition
Our range of products include low and high carbon steel wires, both of them in soft and hard variations, you can choose the correct wire for every single use.



Diameters

We can make diameters from 21⅜Ga to 00¼ Ga. We have the perfect solution whether it is for a single coil for installing a vineyard or as a starting point to manufacture your own wire derivate products.

Coil format

Several coil formats and weights are available. Small coils from 1.10 Lbs to 110 Lbs and large ones from 771.62 Lbs to 3,086.47 Lbs so you can use them or cut them according to your needs.

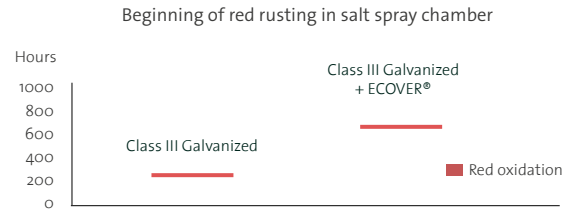
Coatings

We manufacture wire in seven different coatings:

- Galvanized Class I
- Galvanized Class III
- Super heavy galvanized
- Galvanized + PVC coated by extrusion
- Galvanized Class III + ECOVER®
- Galvanized Class III + ECOBLACK
- ZnAl® (Zinc + aluminum)

ZnAl® coating is a combination of 95% Zinc and 5% Aluminum that increases its durability. The aluminum oxide that builds up over time sticks better to the surface than zinc oxide, reducing the covering mass loss. Tests show it can resist up to 1,000 hours in a salt spray chamber before red rusting starts.

The ECOVER® is a covering applied to Class III galvanized wire, made of a passivated metallic coating, based in Titanium (Ti) and Chromium (Cr^{3+}), adds an excellent resistance against corrosion and a better integration with nature thanks to its color. The product used to make the ECOVER® enhances low friction properties of the wire coefficient, improving its transformation into netting. This treatment does not use any Hexavalent Chromium during the process.



And now, the ECOBLACK coating is also available, with same characteristics but black color.

At the MRT we have a wide range of fencing products such as panels, posts, railings, gates, meshes and a complete range of accessories to complement your fencing. All in order to offer you the best solution for your farm, ranch, industry, home or garden. We control the totality of the production stages.

We can offer one of the best painting treatments available, the microcrystalline phosphatation. This allows MRT to guarantee the highest quality in our treatments.

The MRT warranty is proof of our high quality, certifying the resistance to corrosion of our range of powder coated panel fences. ECOVER® products can get up to 25 years of warranty.

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The MRT newsletter

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