



ALBAYRAK
DEMİR ÇELİK

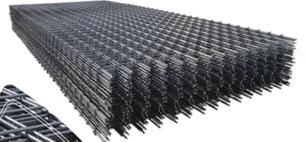
albeson[®]



GALVANIZED WIRE



**NAIL
GROUP**



STEEL MESH



**ARMOUR
WIRE**



**ANNEALED AND OILED BAILING
WIRE**



**PANEL FENCE
GROUP**



Albayrak Demir Celik is one of the leading manufacturers and wholesalers of Iron/Steel products in Turkey. Since 1982, our products offered to the market under "Albeon" brand are well respected and recognised for their excellent Quality. We are one of the 6 companies operating within Erna Holding with 6 warehouses and over 100 trucks, a strong logistics Network, serving our customers throughout the country. We are a reliable partner, solution provider producing quality manufactured goods with short lead times and competitive prices.

Always, Further

In our wire factory, which was established in 2022, on a land of 55,400 m² and in a closed area of 31,250 m², galvanized wire, armour wire, panel fences, steel mesh, construction nails, plastic strip nails, wire coil nails, annealed wire and oiled bailing wire are produced under the Albeon brand.



We Create Employment Opportunities

With the opening of the Albayrak Iron and Steel Factory, we offer important employment opportunities to Samsun and the surrounding regions. We are proud to present our people with a project that will make a great contribution to the economic development of our city.

Looking to the Future with Hope

With its innovative and environmentally friendly approach, Albayrak Iron and Steel Wire, Panel Fence, Galvanized Wire, Steel Mesh Factory sheds light on the future of the industry. Our new factory will have a positive impact on both Samsun and Turkey's economy and contribute to a sustainable future with environmentally friendly production.

“Albayrak Iron and Steel Wire Factory established in 2022 is Bringing Life to the Industry Again!”



We reach
45 provinces of Turkey,
5 continents of the world...

HOT-DIPPED GALVANIZED WIRE

As Albayrak Demir Çelik, we attach great importance to our galvanized wire production processes. We work to obtain high quality products using the latest technologies in our production facilities. Our processes are designed and inspected in accordance with international standards. We use the hot dipping method in our galvanized wire production. This method provides superior corrosion resistance by coating the wires with liquid zinc. Additionally, we carry out strict quality controls during the production stages and ensure that each product is flawless.



Hot-Dipped Galvanized Steel Wire Technical Specifications

| | |
|----------------------------|---|
| Raw Matetial | Low Carbon Steel Wire Rod |
| Coating | Hot-Dip Galvanized (ZN) |
| Coating Thickness | 50 - 360 gr/m ² |
| Wire Diameter | 0,80 - 8,00 mm |
| Tensile Strenght | 350-500 N/mm ² , 500-700 N/mm ² , 700-900 N/mm ² |
| Coil Weight | 250 - 1500 kg |
| Coil Inner Diameter | 35 - 45 - 50 - 55 cm |
| Coil Outer Diameter | 65 - 75 - 90 - 105 cm |
| Packing | Rozet Coil |



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ARMOUR WIRE

 **Armour Wire** Technical Specifications



| | |
|----------------------------|------------------------------|
| Raw Matetial | Non-alloy low carbon steel |
| Coating | Hot-Dip Galvanized ZINC (ZN) |
| Coating Thickness | A Class |
| Wire Diameter | 0,90 - 4,00 mm |
| Tensile Strength | 340 - 400 N/mm ² |
| Coil Weight | 250 - 750 Kg |
| Coil Inner Diameter | 35 - 45 cm |
| Coil Outer Diameter | 65 - 75 cm |
| Packing | Rozet Coil |

Albayrak Demir Çelik's galvanized armour wire, produced under the Albeon brand, is made from high-quality low-carbon steel wire rod. This wire is formed by drawing, acid washing, rust removal, high-temperature annealing, and hot-dip galvanizing processes. It is then processed through cooling and other technological treatments.



Galvanized armour wire is used in applications where cables will be buried directly in the ground or where mechanical protection is required. The following factors should be considered: The armor wire must have low electrical resistance, The surface must be smooth to avoid process disruptions during the armoring process, Required tensile load, A Class zinc coating is necessary to maintain high corrosion resistance, Protection against accidental damage, Required minimum bending radius.



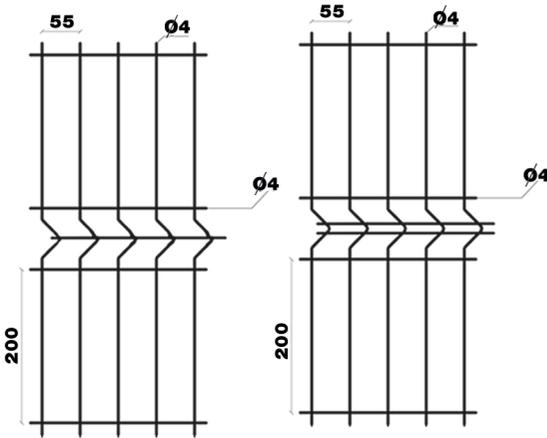
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SINGLE PANEL FENCE

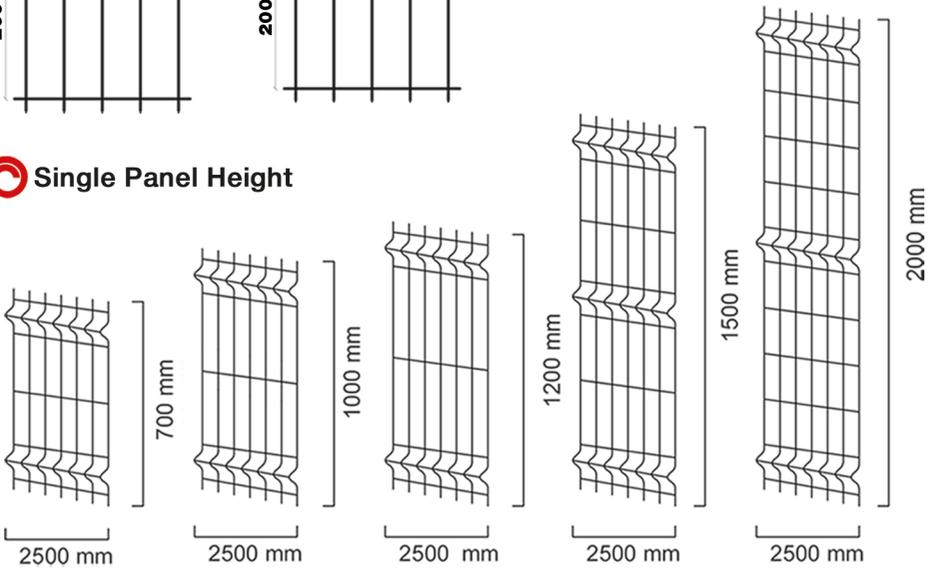
Single Panel Fence produced by Albayrak Demir Çelik under the ALBEON brand: Application of electrostatic powder paint on galvanized wire ensures high quality and long-lasting panel fences. Albeon brand single panel fences provide easy installation with fence posts produced in accordance with standards.



Single Panel Fence Technical Specifications



Single Panel Height



Single Panel Fence Technical Specifications

| Height (mm) | Width (mm) | Horizontal Wire Diameter (mm) | Mesh Size (mm) | Vertical Wire Quantity | Number Of Curves | Curve and Wire Quantity |
|-------------|------------|-------------------------------|----------------|---|------------------|---|
| 700 | 2500 | 4,00 mm ±%5 | 55 x 150 | 46 | 2 | Single or double as per customer's request it is done as. |
| 1000 | | | | | 2 | Single or double as per customer's request it is done as. |
| 1200 | | 3 | | Single or double as per customer's request it is done as. | | |
| 1500 | | 3 | | Single or double as per customer's request it is done as. | | |
| 2000 | | 4 | | Single or double as per customer's request it is done as. | | |

Coating and Surface



Ral 7016 & Ral 6005
(Can be painted in desired RAL color.)



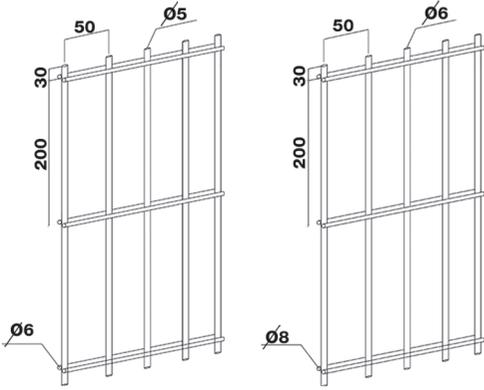
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DOUBLE PANEL FENCE

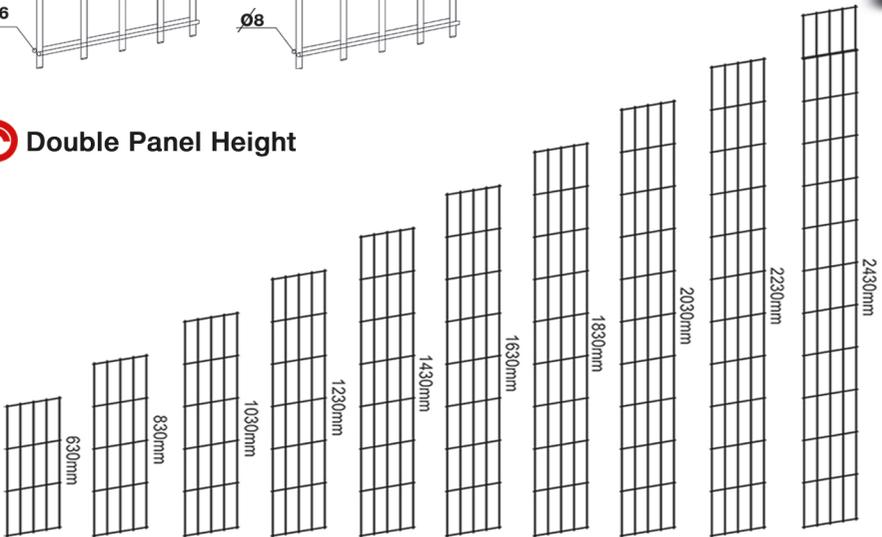
The feature that distinguishes the Albeon brand Double panel fence system from other panel fence systems is that it is produced from double and thick diameter galvanized wires. it is used in areas where security is important.



Double Panel Fence Technical Specifications



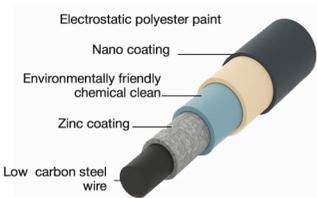
Double Panel Height



Double Panel Fence Technical Specifications

| Height (mm) | Width (mm) | Horizontal Wire Thickness (mm) | Vertical Wire Thickness (mm) | Mesh Type (mm) |
|-------------|------------|--------------------------------|------------------------------|----------------|
| 630 | | | | |
| 830 | | | | |
| 1030 | | 2 x 6 mm ± %5 | 5,00 mm ± %5 | |
| 1230 | 2000 | | | |
| 1430 | | | | 50 x 200 |
| 1630 | | | | |
| 1830 | 2500 | | | |
| 2030 | | 2 x 8 mm ± %5 | 6,00 mm ± %5 | |
| 2230 | | | | |
| 2330 | | | | |
| 2430 | | | | |

Coating and Surface



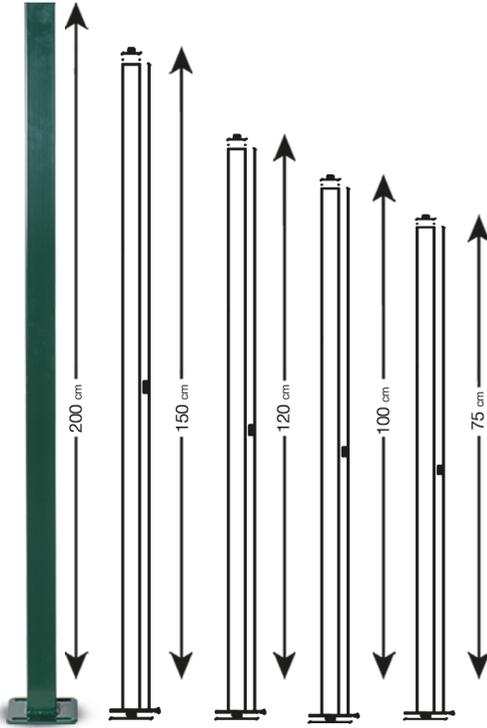
Ral 7016 & Ral 6005
(Can be painted in desired RAL color.)



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PANEL FENCE ACCESSORIES

Pole Heights



Plastic Cap



Plastic Clips



Clips Screw



Double Panel Fence Pole Technical Specifications

| Height (mm) | Pole Dimension(mm) | Flange Dimension (mm) |
|-------------|-----------------------------|-----------------------|
| 800 | | |
| 1000 | Galvanized 50 x 50 x 1,5 | 120 x 120 x 4 |
| 1200 | 40 x 60 x 1,5 | |
| 1500 | 60 x 60 x 1,5 | |
| 2000 | | |

Expansion Bolt



Single Panel Fence Pole Technical Specifications

| Height (mm) | Pole Dimension(mm) | Flange Dimension (mm) |
|-------------|-----------------------------|-----------------------|
| 500 | | |
| 750 | | |
| 1000 | Galvanized 50 x 50 x 1,5 | 120 x 120 x 4 |
| 1200 | 40 x 60 x 1,5 | |
| 1500 | | |
| 2000 | | |



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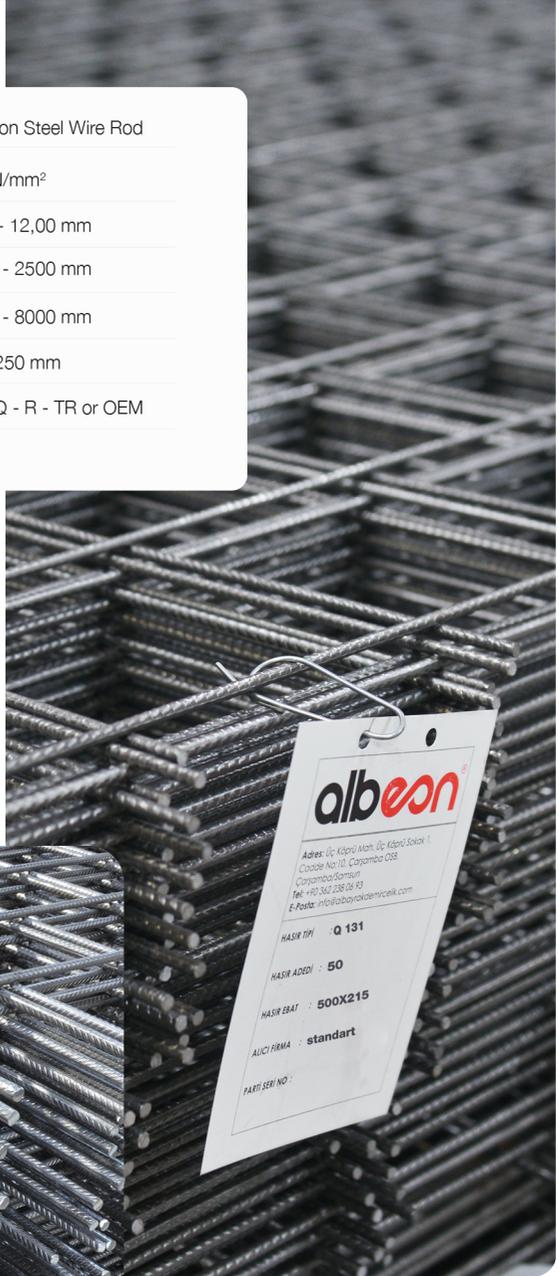
STEEL MESH

Albeon brand steel mesh is a material that is 30% stronger than classic construction steel, obtained by arc welding of bar length and width bars, with different sizes and wire types, made from cold-drawn steel wires, either plain or ribbed. It is distinguished as a national material.

***In our country, it is called
Q, R and TR type***

Steel Mesh Technical Specifications

| | |
|----------------------------|----------------------------|
| Raw Material | Low Carbon Steel Wire Rod |
| Tensile Strength | Min 550 N/mm ² |
| Wire Diameter | 4,00 mm - 12,00 mm |
| Width | 1200 mm - 2500 mm |
| Length | 2700 mm - 8000 mm |
| Mesh Type | 50 mm - 250 mm |
| Hole/Mesh Dimension | Standart Q - R - TR or OEM |
| Packaging | 50 Pcs |



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NAILS

Common Nails



Common Nail Technical Specifications

| | |
|-------------------------|-----------------------------|
| Raw Material | Low Carbon Steel Wire Rod |
| Tensile Strenght | 700 - 900 N/mm ² |
| Nail Diameter | 2,2 mm - 4,2 mm |
| Nail Lenght | 60mm - 80 mm - 100 mm |
| Packaging | 25 kg Cardboard Box |



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Wire Coil Nails



Wire Coil Nails Technical Specifications

| O (mm) | Lenght (mm) | AD/Roll | Box Qty | Smooth | Helical | Ring |
|--------|-------------|---------|---------|--------|---------|------|
| 2.1 | 30-39 | 350x50 | 17 500 | + | - | + |
| 2.1 | 40-60 | 350x50 | 14 000 | + | + | + |
| 2.2 | 30-39 | 350x50 | 17 500 | + | - | + |
| 2.2 | 40-60 | 350x50 | 14 000 | + | + | + |
| 2.3 | 30-39 | 300x40 | 15 000 | + | + | + |
| 2.3 | 40-65 | 300x40 | 12 000 | + | - | + |
| 2.5 | 30-39 | 300x30 | 12 000 | + | - | + |
| 2.5 | 40-70 | 300x30 | 9 000 | + | + | + |
| 2.8 | 50-70 | 250x20 | 5 000 | + | + | + |
| 3.1 | 80-90 | 225x20 | 4 500 | + | + | + |
| 3.3 | 60-90 | 225x20 | 4 500 | + | + | + |
| 3.4 | 60-90 | 200x20 | 4 000 | + | + | + |



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Plastic Strip Nails



Plastic Strip Nails Technical Specifications

| O (mm) | Lenght (mm) | AD/Roll | Box Qty | Smooth | Helical | Ring |
|--------|-------------|---------|---------|--------|---------|------|
| 2.80 | 50-90 | 20-30 | 5 000 | + | + | + |
| 2.90 | 50-90 | 20-30 | 5 000 | + | + | + |
| 3.00 | 50-90 | 20-30 | 4 000 | + | + | + |
| 3.10 | 50-90 | 20-30 | 4 000 | + | + | + |
| 3.30 | 50-90 | 20-30 | 4 000 | + | + | + |



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Nail Shank Types

SMOOTH



HELICAL



RING



Nail Cutting Types

LONG DIAMOND



DIAMOND



CHISEL



BLUNT



NO POINT



ANNEALED WIRE



Albayrak Demir Çelik, with its Albeon brand, uses modern facilities and experienced personnel to meet the highest quality standards in annealed wire production. Our production process covers all stages from raw material selection to the final product. First, high-quality steel raw materials are procured.

Next, the steel is heated and softened in special furnaces. During this stage, temperature and time are precisely controlled. Then, the wire is cooled and hardened. Finally, it undergoes a quality control process before being delivered to our customers.

Annealed wires are produced in different thicknesses and sizes. Albayrak Demir Çelik offers annealed wire in various sizes according to its customers' needs.

Annealed Wire Technical Specifications

| | |
|----------------------------|-----------------------------|
| Raw Material | Low Carbon Steel Wire Rod |
| Wire Diameter | 0,90 - 4,00 mm |
| Tensile Strength | 320 - 400 N/mm ² |
| Elongation | min %25 |
| Coil Inner Diameter | 25 cm |
| Coil Outer Diameter | 35 cm |
| Packging | Coil and Rosette Winding |
| Coil Weight | 25 kg - 750 kg |

Commonly used annealed wire gauges include 1 mm, 1.5 mm, 2 mm, 2.5 mm, and 3 mm.

Different hardness levels are also available. The hardness level is determined by the intended use of the wire. Softer wires are used in applications such as fence wire, while harder wires are preferred in construction and industrial applications. Annealed wire produced under the Albeon brand is manufactured with a standard diameter of 1.20mm. Our products are manufactured to be soft. This facilitates manual handling (bending, tying) in construction areas.



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OILED BALING WIRE



Oiled Baling Wire Technical Specifications

| | |
|----------------------------|--------------------------------------|
| Raw Material | Low Carbon Steel Wire Rod (SAE 1008) |
| Tensile Strength | 320 - 400 N/mm ² |
| Wire Diameter | 1,20 - 4,00 mm |
| Winding Method | Coil and Rosette Winding |
| Coil Inner Diameter | 45 cm |
| Coil Outer Diameter | 75 cm |
| Packing Weight | 50 - 750 Kg |



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www.albayrakdemircelik.com

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