



# WALCOOM

Walcoom Corporation



# BARBED WIRE

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## "The best choice provider to improve the security level of various fences"

For over 20 years, Walcoom Corporation has been offering the strong and durable barbed wire to a wide range of places. We are specialized in barbed wire producing and exporting, and our products are widely used for prison fencing, airport fencing, highway fencing, military site fencing, residence fencing and so on. Advanced production equipment, skilled workers, professional sale representatives and considerate after sale service contribute our high quality products and long term cooperation with our customers. We believe that Walcoom will do it better and better.



**Barbed wire**, also known as bob wire, is made of carbon steel, aluminum alloy steel or stainless steel. It can be used individually to form the barbed wire fence, and it also can be attached onto various fences, such as chain link fence, welded wire mesh fence or palisade fence for high level security barrier. It's widely used for farm fencing, ranch fencing, airport fencing, building fencing, large construction site fencing and so on.

Compared with other fences, our barbed wire produce is stronger, more durable and has higher level of security. Its sharp edge can frighten intruders and thieves, and it is available to combine with other fences for security barriers.

## Features

- Sharp edge frightens intruders and thieves.
- High stability, rigidity, and tensile strength to prevent cutting or destroying.
- Anti-acid and alkali.
- Harsh environment resistance.
- Corrosion and rust resistance.
- Available to combine with other fences for high level security barrier.
- Simple and convenient installation and uninstallation.
- Easy to maintain.
- Durable and long service life.

## Specification

- **Material:** carbon steel, aluminum alloy, stainless steel.
- **Surface treatment:** galvanized or PVC coated.  
Common colors of PVC are green, yellow, blue, red, white, and black.



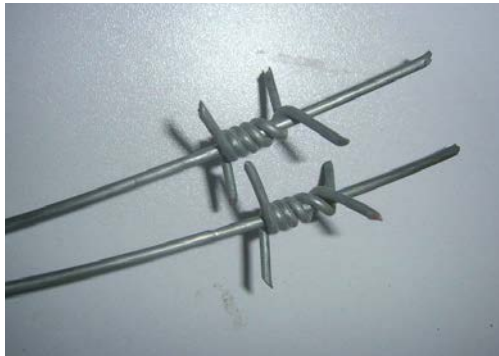
Galvanized barbed wire



PVC coated barbed wire

- **Line wire**
  - **Tensile strength:** 1235 N/m<sup>2</sup>.
  - **Galvanization:** 275 g/m<sup>2</sup>.
- **Barb**
  - **Tensile strength:** 350 N/m<sup>2</sup>.
  - **Galvanization:** 240 g/m<sup>2</sup>.
- **Strand structure**
  - **Single strand barbed wire:** formed with one line wire and many barbs.
  - **Double strand barbed wire:** formed with two line wires and many barbs.





Single strand barbed wire



Double strand barbed wire

- **Barb structure**

- **Single barb** (2-point barbed wire).
- **Double barbs** (4-point barbed wire).

- **Twist style**

- **Traditional twist:** barbs through two wires first, then wires are twisted.
- **Reverse twist:** two wires are twisted first, then barbs fastened onto wires.



Traditional twist



Reverse twist

- **Packaging**

- Pallet package for easy loading.
- Bulk package for saving space.



Pallet package



Bulk package

## • Using method

- Used individually to form barbed wire fence.
- Attached onto various fences for high level security fence barrier, such as chain link fence, welded wire mesh fence, expanded mesh fence or palisade fence.

**Table 1: Standard Sizes and Constructions for Barbed Wire**

Design Number	Size, Steel Wire Gage	Diameter of Coated Wire, in. (mm)	Number of Barb Points	Spacing of Barbs, in. (mm)	Diameter of Barbs, Steel Wire Gage	Shape of Barbs
12-4-3-14R	12.5	0.099 (2.51)	4	3 (76)	14	round
12-4-3-12R	12.5	0.099 (2.51)	4	3 (76)	12	round
12-2-4-12F	12.5	0.099 (2.51)	2	4 (102)	12.5	flat
12-2-4-13F	12.5	0.099 (2.51)	2	4 (102)	13	flat
12-2-4-14R	12.5	0.099 (2.51)	2	4 (102)	14	round
12-2-5-12F	12.5	0.099 (2.51)	2	5 (127)	12.5	flat
12-4-5-14R	12.5	0.099 (2.51)	2	5 (127)	14	round
12-4-5-14H	12.5	0.099 (2.51)	4	5 (127)	14	half-round
12-4-5-14R	12.5	0.099 (2.51)	4	5 (127)	14	round
13-2-4-14R	13.5	0.086 (2.18)	2	4 (102)	14	round
13-4-5-14R	13.5	0.086 (2.18)	4	5 (127)	14	round
14-2-4-14F	14	0.080 (2.03)	2	4 (102)	14	flat
14-2-5-14F	14	0.080 (2.03)	2	5 (127)	14	flat
14-4-3-14F	14	0.080 (2.03)	4	3 (76)	14	flat
14-4-5-14F	14	0.080 (2.03)	4	5 (127)	14	flat
14-2-5-14R	14	0.080 (2.03)	2	5 (127)	14	round
15-4-5-14R	14	0.080 (2.03)	4	5 (127)	14	round
15-2-5-13F	15.5	0.067 (1.70)	2	5 (127)	13.75	flat
15-2-5-14R	15.5	0.067 (1.70)	2	5 (127)	14	round
15-4-5-16R	15.5	0.067 (1.70)	4	5 (127)	16.5	round

**Table 2: Specifications of Concertina Barbed Wire**

Item	Coil Diameter Before Stretching (mm)	Coil Diameter After Stretching (mm)	Spiral Turns Per Coil	Clips Per Spiral
CBWF-01	300	260	33	3
CBWF-02	450	400	54 or 55	3
CBWF-03	730	600	54 or 55	3
CBWF-04	730	620	54 or 55	5
CBWF-05	980	820	54 or 55	5
CBWF-06	980	850	54 or 55	7
CBWF-07	1250	1150	54 or 55	9

## Application

Used individually to form the barbed wire fence or attached onto various fences for high level security fence barrier.

- Airport fencing.
- Prison fencing.
- Military site fencing.
- Construction site fencing.
- Square fencing.
- Farm fencing.
- Ranch fencing.
- Highway fencing.
- Railway fencing.
- Factory fencing.
- Residence fencing.
- Building wall fencing.
- Orchard fencing.
- Garden fencing.
- Plant fencing.
- River fencing.
- High voltage fencing.
- Road fencing.
- Private land fencing.



Used individually

Used with chain link fence

Used with welded wire mesh fence

Used with expanded mesh fence

Used with palisade fence

Used with field fence

## Fitting terminology

- Barb—as related to barbed wire, a short length of wire, with exposed ends cut on a bias to produce sharp points.
- Barbed wire arm—a post fitting used to hold barbed wire in place. May be vertical or angled to hold three or more strands of barbed wire, or "V" shaped to hold six or more strands of barbed wire.
- Barbed wire arm base—a casting of aluminum, malleable iron, or steel, used in combination with one or two barbed wire extension arms held in place by a bolt and nut.
- Barbed wire extension arm—pressed aluminum or pressed galvanized steel used in combination with barbed wire arm base to hold three strands of barbed wire either vertically or angled in or out from the fence line. Also used in pairs in a "V" configuration to hold 6 strands of barbed wire.
- Brace band—a symmetrically formed strip of metal shaped to fit around a post and used with a carriage bolt and nut to attach the rail end or brace rail end truss rod tightener to the post, also used for attaching barbed wire, tension wire, and other items to a terminal post.
- Tension band—an offset strip of metal shaped to fit around the terminal post and used with a carriage bolt and nut to attach the tension bar to the post.

## Barbed wire arms



V barb arm



45 degree barb arm



Straight barb arm

## Barbed wire fences installation steps and tips

1. Select end and corner locations.
2. Install 6" × 8' wood post H-brace assembly for ends and double corner H-brace assemblies for corners on the ground. 3.5' to 4' leaving 4' out of ground adjust post length if taller fence is required.
3. Carefully unroll end of 4' to 8' of barbed wire and fasten by wrapping around starting post and back onto itself at desired height for lowest strand.



4. Carefully unroll the barbed wire to end of fence.
5. Tension wire with chain wire strainer at end.
6. Cut line wire to proper length and fasten wire at desired height as done at the beginning.
7. The first wire should be adjusted (to obtain a straight line) along the fence line with light tension by picking wire up to a height of 4' to 6' then dropping wire. This process should be repeated until straight line from beginning to end is achieved. This process will allow wire to fall creating a straight line for the fence to follow.
8. Using the first wire as a straight line, install line posts (wood or steel) at 15' to 20' apart, adjusting distance as necessary. (High-pressure fences like feed lots will need heavier posts, closer together.)
9. Fasten barbed wire to T post with wire clip (usually provided with new T posts) or staple barbed wire to wood posts leaving room for wire to "float" when stapled (not staple wire tight to post.)
10. When installing line posts make sure that any post that will have strain (vertical or horizontal) on it is stout and secure enough to take the strain. As in wood post 5" to 6" × 8' (multiples if necessary) in dips or other low areas and on crowns or high areas.
11. Repeat necessary process for additional wires.

## How to install barbed wire on a chain link fence

With barbed wire topping, chain link fence can achieve higher level of security to keep out unwanted gusts. Following content shows the installation steps.

1. Slide the barbed wire post extensions onto the existing corner posts of your chain link fence. These extensions always come with screws for securing the additional posts to the ones on your fence. If your fence's corner posts don't have holes for these, you will need to use a drill to secure the extensions.
2. Examine the barbed wire posts to find the clips and there are three on each post. Attach a piece of barbed wire to one of the clips and wrap it around the post. Secure the wire with a wire tie to prevent slippage.
3. Run the barbed wire to the next corner post. Attach a wire strainer to the barbed wire and tighten it until the wire is very taut, then clip the wire to the next post. Repeat the process for each corner post until you get back to the first post.
4. Secure the barbed wire to the first corner post with the attached clip. Once you have the wire tightened and secure, clip off the excess. Repeat the entire process for the second and third lengths of barbed wire.



## Hot barbed wire specifications

Three or six strands of barbed wire on the top of the fence.

- 12-4-3-14R having 4-point barbs spaced 3 in. on center.
- 12-4-5-14R having 4-point barbs spaced 5 in. on center.

## Tips for choosing barbed wire

- **Material**

Barbed wire can be made of different materials including carbon steel, aluminum steel or stainless steel.

- **Strand structure**

There are two types of strand structure: single strand barbed wire (concertina barbed wire) and double strand barbed wire (barbed wire). Concertina barbed wire is often manufactured and used by rolls, barbed wire is often manufactured and used by straight lines.

- **Twist style**

There are conventional and reverse twist styles. Generally speaking, reverse twist barbed wire is stronger in structure than conventional twist barbed wire, but the conventional barbed wire has a lower price.

- **Packaging method**

We can offer pallet packaging or bulk packaging for your reference.

- **Specific application**

If you want to purchase the barbed wire for special or specific uses, you can browse our specific product and gallery page. If you have any questions, please contact us on the line, and our related staff will provide you with free consultation service.

## Our services

- Free consultation service.
- Strict inspections during production and before delivery.
- After sale service.

## Information supplied by the purchaser

The following information shall be supplied by the purchaser at the time of inquiry or order:

- Quantity.
- Type of barbed wire.
- Coating type.
- Barb spacing.
- Length on reels.
- Whether the uniformity of coating is to be measured.
- Inspection documentation requirements.

# BARBED WIRE

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