

**IRISH STANDARD SPECIFICATION**

**GALVANIZED FENCING WIRE**

I.S. 126 : 1982

*Price Code C*

INSTITUTE FOR INDUSTRIAL RESEARCH AND STANDARDS

Ballymun Road, Dublin 9.

Telegrams: Research, Dublin      Telex 25449      Telephone: (01) 370101

**DECLARATION**  
OF  
SPECIFICATION  
ENTITLED  
GALVANIZED FENCING WIRE  
AS  
THE IRISH STANDARD SPECIFICATION FOR  
GALVANIZED FENCING WIRE

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The Institute for Industrial Research and Standards in exercise of the power conferred by section 20 of the Industrial Research and Standards Act, 1961 (No. 20 of 1961), and with the consent of the Minister for Industry and Energy, hereby declares as follows:

1. This instrument may be cited as the Standard Specification (Galvanized Fencing Wire) Declaration, 1982.
2. (1) The Specification set forth in the Schedule to this declaration is hereby declared to be the standard specification for Galvanized Fencing Wire.  
(2) The said standard specification may be cited as Irish Standard 126 : 1982 or as I.S. 126 : 1982.
3. (1) The Standard Specification (Galvanized Fencing Wire) Declaration, 1964, is hereby revoked.  
(2) Reference in any other standard specification to the Instrument hereby revoked and to Irish Standard 126 : 1964 thereby prescribed shall be construed, respectively, as references to this Instrument and to Irish Standard 126 : 1982.

SCHEDULE

Galvanized Fencing Wire

1. SCOPE

1.1 This specification applies to plain single-strand galvanized steel fencing wire made of mild steel or high tensile steel.

2. MANUFACTURE

2.1 The wire shall be of circular cross-section and shall be free from injurious segregation and piping. It shall have a smooth finish free from deep scratches or other gross imperfections and shall not contain welds made after the final galvanizing operation. Where welds are formed in the wire before the final galvanizing operation, all relevant provisions of this specification shall apply to such welds.

3. DIAMETER

3.1 The nominal diameter of mild steel and high tensile steel fencing wire shall be as given in Table 1. The nominal diameter shall be the overall diameter of the finished galvanized wire.

TABLE 1: NOMINAL WIRE DIAMETERS\*

Nominal Diameter of Wire		Tolerance plus and minus mm	Nearest gauge SWG
mild steel mm	high tensile steel mm		
5.00	—	0.10	6
4.00	—		8
3.15	3.15		11
2.5	2.5	0.08	12
2.0	2.0		14
1.6	—		16
1.25	—		18

\* Wire diameters are in accordance with ISO R388—1964, issued by the International Organization for Standardization, 1 Rue de Varembe, 1211 Geneva 20, Switzerland.

4. BREAKING LOAD

- 4.1 The breaking load of mild steel galvanized fencing wire shall be not less than the appropriate value set out for the diameter of the wire shown in Table 2.
- 4.2 The breaking load of high tensile steel galvanized fencing wire shall be not less than the appropriate value set out for the diameter of the wire shown in Table 3.
- 4.3 The breaking loads shall be determined in accordance with British Standard 4545 : 1970 “ Methods for mechanical testing of steel wire ”, published by the British Standards Institution, London W1A 2BS, the rate of loading being approximately 350 MPa per minute.

TABLE 2: MINIMUM BREAKING LOAD OF MILD STEEL FENCING WIRE

Diameter mm	5.0	4.0	3.15	2.5	2.0	1.6	1.25
*Minimum breaking load (kN)	6.87	4.40	2.73	1.72	1.1	0.70	0.43

\* These breaking loads correspond to an ultimate tensile stress of 370 MPa.

TABLE 3: MINIMUM BREAKING LOAD OF HIGH TENSILE STEEL FENCING WIRE

Diameter (mm)	3.15	2.5	2.0
**Minimum breaking load (kN)	8.19	5.16	3.29

\*\* These breaking loads correspond to an ultimate tensile stress of 1050 MPa.

5. DUCTILITY

5.1 The galvanized mild steel wire shall withstand, without fracture of the steel base, being wrapped eight close turns round a wire of its own diameter and then being unwrapped. The wrapping and unwrapping shall be carried out at a sensibly uniform rate not exceeding 15 turns per minute. The galvanized high tensile steel wire shall withstand, without fracture of the steel base, being wrapped two close turns around a mandrel of diameter equal to that of the wire. These tests shall be carried out in accordance with B.S. 4545.

6. GALVANIZING

6.1 The galvanizing shall consist of a continuous even coating of zinc applied by either the hot dip or the electrolytic process using spelter with a zinc content of not less than 98.5 per cent. The coating shall adhere firmly to the wire and shall comply in all respects with the relevant requirements of B.S. 443 : 1969 “ Galvanized Coatings on Wire ”.

## 7. PACKING AND MARKING

**7.1** The wire shall be smoothly and uniformly coiled and each coil shall be securely bound in at least three places. Unless otherwise required by the purchaser each coil shall have a mass of 25 kg and shall contain not more than two pieces, the lighter piece being not less than 20 per cent of the total mass.

**7.2** Each coil shall have the following information legibly marked on a suitable label securely attached to it:

- (a) the inscription “ I.S. 126 : 1982 ”,
- (b) the name or mark of the manufacturer,
- (c) the diameter of the wire and, in addition, for high tensile wire, the letters H.T.,
- (d) the approximate length of wire per coil,
- (e) the mass of the coil.



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