

**Fortinet® Medium PVC**

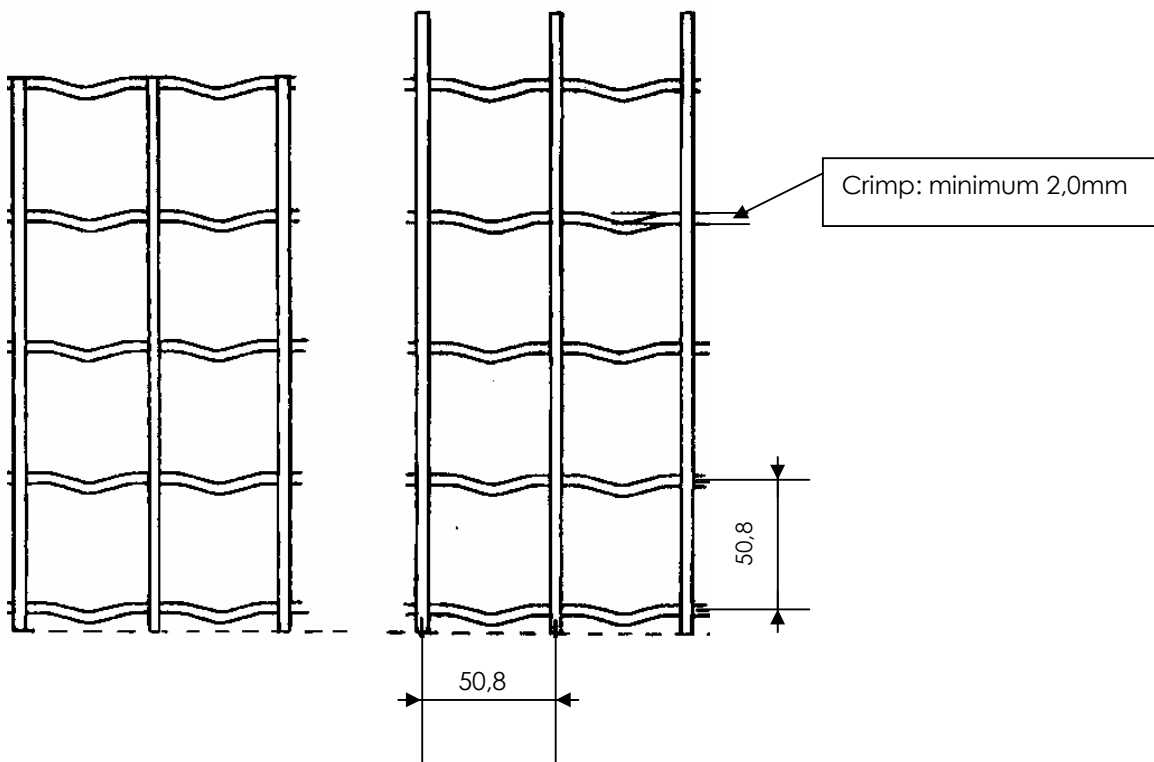
Herewith we confirm that the Fortinet® Medium, is in accordance with the following specification:

**Fortinet® Medium****1. Scope**

Fortinet® Medium is produced by electrical resistance welded galvanised wires and, subsequently PVC coated in accordance with EN 10223-4.

The line wires are crimped in the middle of each mesh

From a height of 1500mm on one side of the mesh is provided with a barb of about 25mm in the opposite direction of the crimp See fig. 1



**Fortinet® Medium PVC****1.1 Normative references**

- EN 10016-2:Non-alloy steel rod for drawing and/or for cold rolling
- EN 10218-2:Steel wire and wire products - General - Part 2: Wire dimensions and tolerances
- EN 10223-4:Steel wire and wire products for fences - Part 4: Steel wire welded mesh fencing
- EN 10244-2:Steel wire and wire products - Non-ferrous metallic coatings on steel wire - Part 2: Zinc or zinc-alloy coatings on steel wire
- EN 10245-2 Steel wire and wire products – Organic coatings on steel wire – Part 2: PVC finish wire

**1.2 Definitions**

- nominal wire diameter: the diameter in mm to designate the wire
- real wire diameter: the average value of the minimal and the maximal diameter, measured in the same section of a straight piece of wire, by means of a micrometer to 0,01mm
- mesh sizes: see fig 1  
the meshes are measured from centre to centre of the wires.
- line wires: the wires running in the longitudinal direction of the mesh
- cross wires: the wires running in the traverse direction of the mesh

**2. Raw material****2.1 Wire rod: see table 1**

Table 1: Chemical composition	
Element	%
C	≤ 0,10
Si	≤ 0,30
Mn	≤ 0,60
P	< 0,035
S	< 0,035

The chemical composition is in accordance with EN 10 016-2 .The designation of the wire rod is C9D

**2.2 Zinc**

Minimum 99,5% of pure zinc is used for galvanising

**2.3 PVC**

The PVC is free of lead and cadmium

## Fortinet® Medium PVC

### 3. Requirements

#### 3.1 Diameters:

See table 2

Table 2 characteristics of the wire				
Nominal wire diameter mm		application	Min. mass of Zinc g/m <sup>2</sup>	Tensile strength N/mm <sup>2</sup>
Core wire	PVC-coated wire <sup>(1)</sup>			
2,45 ± 0,12	2,95±0,15	Line wire	30	400 to 550
2,45 ± 0,12	2,95±0,15	Cross wire	30	650 to 850

<sup>(1)</sup>Tolerances are in accordance with EN 10218-2

#### 3.2 Mesh sizes and tolerances

- spacing of the line wires: 50,8 ± 2,5 mm
- spacing of the cross wires: 50,8 ± 2,5 mm
- number of meshes: see table 3

Table 3 number of meshes	
height	meshes (from bottom up)
1016mm (40")	20meshes x 50,8mm
1219mm (48")	24meshes x 50,8mm
1499mm (59")	29meshes x 50,8mm + 1 x 25,4mm barb length
1803mm (71")	35meshes x 50,8mm + 1 x 25,4mm barb length
2007mm (79")	39meshes x 50,8mm + 1 x 25,4mm barb length
2517mm (99")	49meshes x 50,8mm + 1 x 25,4mm barb length

#### 3.3 Tensile strength

See table 2

#### 3.4 Weld shear strength

The average weld shear strength shall not be less than 70% of the breaking strength of the line wire.

#### 3.5 PVC-coating

The PVC-coating is fused and adhered to a primer that is cured onto the galvanised core wire, thus achieving an excellent bond between wire and PVC

**Fortinet® Medium PVC****4. Form of delivery****4.1 Roll length**

25 + 0,3/-0 m

**4.2 Height of the mesh**

see table 3, tolerance  $\pm$  5mm

**4.3 Inside diameter of the roll**

About 150 mm

**4.4 Outside diameter of the roll**

About 410 mm

**4.5 Packing**

Each roll is packed in either shrink- or stretch foil, forwarded on wooden one-way pallets of 1200 x 800 x 145 mm or in agreement between Betafence and the customer