

Technical Data Sheet
TDS-04-59

Bekafor® Classic

1 Scope

This technical data sheet specifies the properties for Bekafor® Classic panels made out of galvanized steel wires, welded and subsequently PVC coated.

The vertical wires have a barb at one side of the panel.

The panel is reinforced by means of 2 or more V-shapes in the horizontal direction of the panel. See figure 1.

The V-shapes are bent after PVC Coating.



Figure 1: Bekafor® Classic panel

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Made up by:
Werner Frans
Group Quality Department

Approved by:
Bart Catteeuw
Product Manager

Approved by:
Willy Naesens
Group Quality Manager

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1.1 Normative references

- ISO 16120-2: Non-alloy steel wire rod for conversion to wire - Part 2: Specific requirements for general purpose wire rod.
- EN 1179: Zinc and zinc alloys – primary zinc.
- ISO 22034-2: Steel wire and wire products - Part 2: Tolerances on wire dimensions.
- EN 10223-7: Steel wire and wire products for fences, Part 7: Steel wire welded panels for fencing.
- EN 10245-2: Steel wires and wire products / organic coatings on steel wire part 2: PVC finished 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 accurate to 0,01 mm.
- Mesh sizes: The distance measured between the centres of two neighbouring 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.

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2 Raw Materials

2.1 Wire rod

See table 1.

Table 1: Chemical composition	
Element	%
C	≤ 0,10
Si	≤ 0,30
Mn	≤ 0,70
P	≤ 0,035
S	≤ 0,035

The designation of the wire rod is based on grade C9D – ISO 16120-2.

2.2 Zinc (Zinc used for galvanisation bath)

Minimum 99,95% of pure zinc is used for galvanising, in accordance with Z3 of EN 1179.

2.3 PVC

The PVC is free of lead, cadmium and DOP.

3 Properties

3.1 Wire diameter and tolerances

Diameter of the galvanized horizontal wires: $3,80 \pm 0,06$ mm.

Diameter of the galvanized vertical wires: $3,30 \pm 0,05$ mm.

Diameter of PVC-coated horizontal wires: $4,50 \pm 0,20$ mm.

Diameter of PVC-coated vertical wires: $4,00 \pm 0,20$ mm.

The tolerances are in accordance with ISO 22034-2.

3.2 Tensile strength of the wire

Vertical and horizontal wires: Min. 400 N/mm².

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3.3 Mesh sizes and tolerances

Mesh spacing is measured between the centres of two neighbouring wires:

- Distance between the horizontal wires : $100 \pm 3,0$ mm.
- Distance between the vertical wires : $50 \pm 3,0$ mm.

The tolerances are in accordance with EN 10223-7.

3.4 Weld shear strength

Weld shear strength is tested on four welds selected at random from one transverse wire of the panel.

The minimum average weld shear strength value meets the required 50% of the breaking strength of the wire as per EN 10223-7.

3.5 Barbs

Bekafor® Classic panels have a barb of $30 \text{ mm} \pm 2 \text{ mm}$ at the topside of the panel.

3.6 Overhangs

Overhangs: Maximum 2 mm.

3.7 Dimensions of the V-shapes

Number of V-shapes: See table 2.

Dimensions of V-shapes: See technical drawing, available on request.

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Group Quality Department

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**Technical Data Sheet
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Width: 2000 ± 5,0 mm.

Height: See table 2 and figure 2. Tolerance ± 5,0 mm.

Table 2: Dimensions of the panel		
Overall height of the panel (mm)	Number of horizontal wires	Number of V-shapes
630	11	2
1030	15	2
1230	17	2
1530	22	3
1730	24	3
2030	29	4

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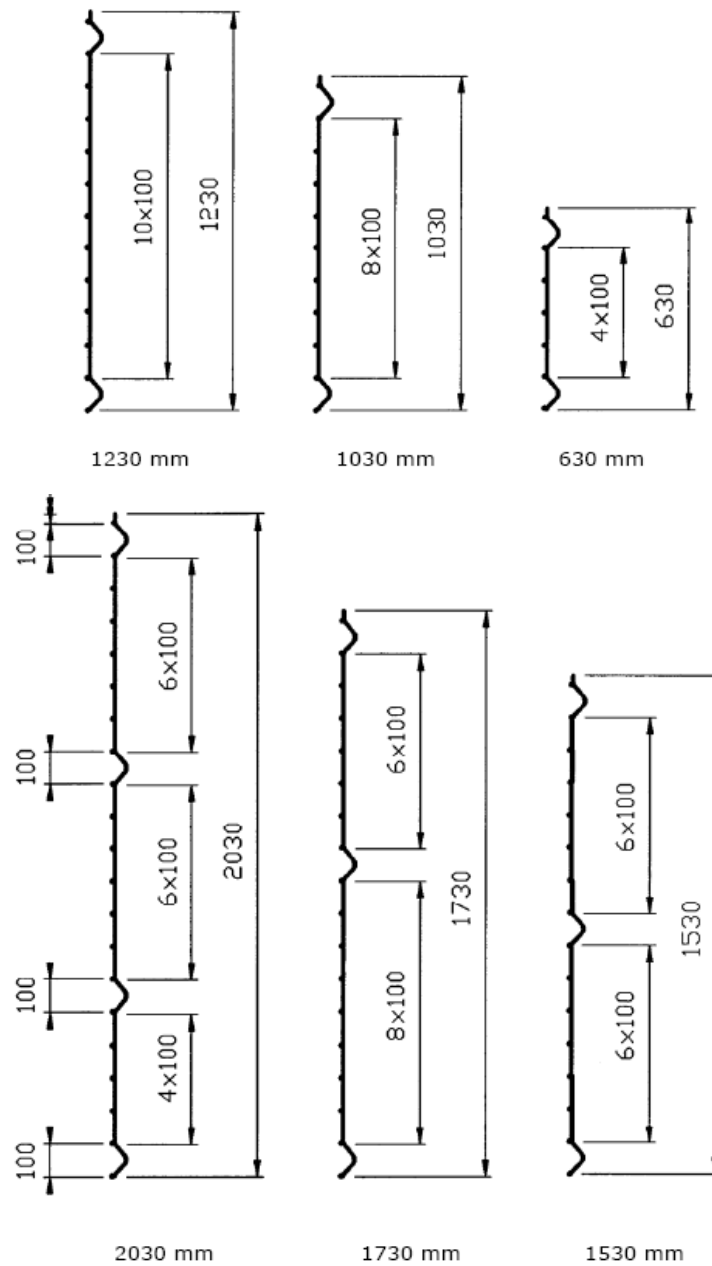


Figure 2.

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4 Coating

4.1 Metallic coating

The wires are galvanized and the min. zinc weight for the horizontal and vertical wires is 30 g/m².

4.2 PVC coating

The PVC coating is fused and adhered to a primer that is cured onto the galvanized core wire, thus achieving an excellent bond between wire and PVC. (In accordance with EN 10245 part 2 class 2b).

Thickness:

The total layer is minimum 200 µm thick.

Colour: Green RAL 6005, Metallic Anthracite BF 7016M or White RAL 9010, except height 2030 which is not available in White RAL 9010.

5 Form of delivery

Panels are delivered on a wooden pallet, protected by UV - resistant shrink or stretch foil. A label is stuck on each side of the pallet stating Sapcode, mesh size, width, height and numbers of panels put on the pallet.

Number of panels per pallet, weight and sizes: See table 3.

Nominal dimensions of the panel (mm)	Number of panels per pallet	Weight of the panel (kg)	Sizes of the forwarding unit L x W x H (cm)	Sapcode Color Green RAL 6005	Sapcode Color White RAL 9010	Sapcode Color Anthracite BF 7016M
2000 x 630	100	4	202 x 140 x 55	7035842	7035848	7035853
2000 x 1030	50	6	202 x 111 x 52	7035843	7035849	7035854
2000 x 1230	50	7	202 x 135 x 52	7035844	7035850	7035855
2000 x 1530	50	9	203 x 161 x 52	7035845	7035851	7035856
2000 x 1730	50	10	205 x 182 x 52	7035846	7035852	7035857
2000 x 2030	50	12	215 x 215 x 55	7035847	+++	7035858

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