

Fortinet® Swing Gate**1 Scope**

This specification specifies requirements for swing gates with Fortinet® infill.

The gate consists of different components:

- Gate posts (hinge post and latch post)
- Wing
- Accessories (hinges, lock-system, ground bolt)

There are 2 types; single Fortinet® swing gates (figure 1) and double Fortinet® swing gates (figure 2).



Figure 1: Single Fortinet® Swing Gate



Figure 2: Double Fortinet® Swing Gate

Fortinet® Swing Gate**1.1 Normative References**

- EN 10027-1: Designation system for steel - Part 1: Steelnames.
- EN 10088-1: Stainless steels: Part1: List of stainless steels
- EN 13241-1: Industrial, commercial and garage doors and gates - Product standard - Part 1: Products without fire resistance or smoke control characteristics
- EN 13438: Powder organic coatings for galvanized steel products for construction purposes
- ISO 1461: Hot dip galvanized coatings on fabricated iron and steel articles - Specifications and test methods
- ISO 9227: Corrosion tests in artificial atmospheres; salt spray tests.
- EN10326: Continuously hot-dip coated strip and sheet of structural steels – Technical delivery conditions.
- EN10327: Continuously hot-dip coated strip and sheet of low carbon steels for cold forming – Technical delivery conditions.

2 Raw materials**2.1 Steel**

The gate posts are made out of continuously hot-dip zinc coated steel sheet (Sendzimir). A regular construction steel is used for the frame of the wing. Yield strength: minimum 235 N/mm².

2.2 Zinc and KTL

Posts : Zinc coating: Min. of 275 g/m² as an average of 3 measurements and doubleside determined in accordance with EN10326. (Z275)

Frame of the wing is KTL treated and polyester coated.

2.3 Polyester

Free from Lead and Cadmium.

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3 Properties

3.1 Standard Types

See tables below.

Single Fortinet swing gate							
Height of the wing	Width of the gate	Width of the gate	Height of the post	Sapcode	Dimensions of pallets	Weight/piece	Drawing
in mm	C-C In mm	Free passage	In mm		In cm	(kg)	
750	1000	850	1500	7029615	150 x 86 x 13	19	FSW00A001111
950	1000	850	1750	7029616	178 x 86 x 13	23	FSW00A001112
1150	1000	850	2000	7029617	202 x 86 x 13	25	FSW00A001113
1450	1000	850	2250	7029618	227 x 86 x 13	32	FSW00A001114
1750	1000	850	2500	7029619	254 x 86 x 13	36	FSW00A001115
1950	1000	850	2750	7029620	277 x 86 x 13	40	FSW00A001116
950	1250	1100	1750	7029621	178 x 113 x 13	25	FSW00A001122
1150	1250	1100	2000	7029622	201 x 113 x 13	29	FSW00A001123
1450	1250	1100	2250	7029623	227 x 113 x 13	34	FSW00A001124
1750	1250	1100	2500	7029624	250 x 113 x 13	39	FSW00A001125
1950	1250	1100	2750	7029625	277 x 113 x 13	43	FSW00A001126

Double Fortinet swing gate							
Height of the wing	Width of the gate	Width of the gate	Height of the post	Sapcode	Dimensions of pallets	Weight/piece	Drawing
in mm	C-C In mm	Free passage	In mm		In cm	(kg)	
950	3000	2788	1750	7029626	152 x 105 x 18	42	FSW00A001232
1150	3000	2788	2000	7029627	202 x 120 x 18	50	FSW00A001233
1450	3000	2788	2250	7029628	219 x 150 x 18	57	FSW00A001234
1750	3000	2788	2500	7029114	150 x 175 x 30	67	FSW00A001235
1950	3000	2788	2750	7029115	150 x 175 x 30	75	FSW00A001236
950	4000	3788	1750	7029629	202 x 105 x 18	50	FSW00A001242
1150	4000	3788	2000	7029630	205 x 120 x 18	60	FSW00A001243
1450	4000	3788	2250	7029631	222 x 150 x 18	67	FSW00A001244
1750	4000	3788	2500	7029116	200 x 175 x 30	77	FSW00A001245
1950	4000	3788	2750	7029117	200 x 195 x 30	87	FSW00A001246

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All other dimensions are specified in the corresponding technical drawings, available on request.

3.2 Coating

Posts are coated with zinc and polyester, the wing is coated with KTL and subsequently polyester, resulting in an excellent corrosion resistance.

3.2.1 Organic coating

Posts are coated with a polyester coating system. The minimum layer thickness is 60 µm. The wing (frame) is KTL treated and afterwards polyester coated: the total coating layer has a minimum of 80 µm. Standard colour Green Ral 6005.

Adhesion: make two scratches by means of a hard metal pointed graving tool, penetrating through the metal and intersecting at an angle of $30^\circ \pm 5^\circ$. Lift a 30° peak with the point of a knife. The coating shall not be able to be lifted from the metal by more than 5 mm.

Resistance of the polyester to salt spray: make a rectangular diagonal cross by means of a hard metal pointed graving tool, penetrating through the metal. Test in accordance with ISO 9227 (neutral salt spray). After 1000 h there shall be no corrosion beneath the polyester or loss of adhesion in excess of 10 mm from the diagonals and no signs of blistering, cracking or crazing on any part of the specimen.

3.3 Accessories

- Hinges: are adjustable and are made out of hot dip galvanized steel to assure a good corrosion resistance.
- Ground bolt (double Fortinet swing gate): The ground bolt for the large double Fortinet gates is made out of stainless steel (A2) The analysis is in accordance with AISI 302/304 and the quality X5CrNi18-10 as specified in the European Standard EN 10088-1. The ground bolt that is mounted on the small gates, is made from aluminium.
- Lock System: all metal parts of the lock (bolts, washers, screws, ...) system are made out of stainless steel or coated steel to assure good corrosion resistance.
- Handles and washers are made out of UV-resistant plastic..
- Washers used between the gate and the handles are made out of UV-resistant plastic.
- Lockholder is made out of UV-resistant plastic.
- The latch and the hinge post have a post cap that is made from plastic and afterwards polyester coated.
- Slam plate is made out of UV-resistant plastic.