

Corrosion Protection

In order to establish a guarantee EPPA label, a classification has been made for different surface treatment systems according to the standards.

Table 1: Corrosion Protection Classification

Surface treatment system	Environmental conditions/Atmospheric corrosivity according to EN ISO 12944-2				
	C1 (very low) Interior dry	C2 (low) Outside; rural environment	C3 (medium) Interior wet/outside: urban and industrial atmospheres with moderate sulfur dioxide pollution, excl. coastal areas	C4 (high) Outside; industrial areas, excl. coastal areas	C5 (very high) Outside; industrial and coastal areas with high humidity and aggressive atmospheres
P1	++	++	+	+/-	-
P2	++	++	+	+/-	-
P3	++	++	+	+	-
P4	++	++	+	+	+/-
P5	++	++	+	+	+/-
P6	++	+	+/-	-	-
P7	++	++	+	+	+/-
P8	++	++	++	+	+/-
P9	++	++	++	+	+/-
P10	++	++	++	+	+/-

Corrosion protection classification for 5 years lifetime
(maximum degree of rusting: Ri4, according to ISO 4628/3)

- ++ very good (more than 5 years technical lifetime)
- + good (5 years technical lifetime)
- +/- mediate
- not advised
- not applicable

Table 2: Surface Treatment System Classification

System	Material	Metallic coating	Organic coating
P1	Posts & fence	Hot-dip galvanised steel material according to EN ISO 1461 EN 10240.	Without organic coating
P2	Posts	Hot-dip galvanised steel according to EN ISO 1461 and EN 10240.	Painted according to DIN EN ISO 12499-5
P3	Posts	Hot-dip galvanised steel according to EN ISO 1461 and EN 10240.	Painted 2 components primer + 2 components top layer according to EN ISO 12499-5
P4	Posts	Hot-dip galvanised steel according to EN ISO 1461 and EN 10240.	Powder organic coated (polyester) according to prEN 13438
P5	Posts	Flat galvanised steel material (sendzimir) according to EN 10142 / EN 10147	Powder organic coated (polyester) according to prEN 13438
P6	Fence	Zinc or zinc alloy coated wires, class A, according to EN 10244-2	Without organic coating
P7	Fence	Welded mesh panel of zinc or zinc alloy steel wires according to EN 10223-4/7	Powder coated (polyester) according to prEN 13438
P8	Fence	Welded mesh panel out of bright wire according to EN 10223-7 hot-dip galvanized according to EN ISO 1461	Powder coated (polyester) according to prEN 13438
P9	Fence	Welded mesh rolls & panel of zinc or zinc alloy steel wires according to EN 10223-4/7	Powder coated (PVC) according to EN 10245-2
P10	Fence	Chain link zinc alloy coated wire according to EN 10223-6	Powder coated (PVC extruded) according to EN 10245-2

When one takes the above classification of surface treatment systems, a corrosion protection classification can be made. This table serves as a starting point for the Guarantee label (chapter 7)