

Surface treatments table

TYPE OF SURFACE TREATMENT	WHITE CORROSION RESISTANCE*** [minimum hours]	RED CORROSION RESISTANCE*** [minimum hours]	ASPECT
*Electrolytical zinc plating 2-3 my Cr VI-free	6	12	Brilliant gray with blue-coloured reflexes Gray with weak blue-coloured reflexes
*Electrolytical zinc plating 6-8 my Cr VI-free	24	72	
*Electrolytical zinc plating 11-13 my Cr VI-free	24	96	
White mechanical zinc plating 11-13 my Cr VI-free	72	168	
White mechanical zinc plating 20-25 my Cr VI-free	72	216	
White mechanical zinc plating 40-42 my Cr VI-free	72	288	
Yellow mechanical zinc plating 11-13 my Cr VI-free	72	168	Iridescent yellow
Yellow mechanical zinc plating 20-25 my Cr VI-free	72	216	
Yellow mechanical zinc plating 40-42 my Cr VI-free	72	288	
**Geomet® 321 type A 5-7 my Cr VI-free	-	600	Gray with satin surface
**Geomet® 321 type B 8-10 my Cr VI-free	-	1000	
**Geomet® 500 type A 5-7 my Cr VI-free	-	600	
**Geomet® 500 type B 8-10 my Cr VI-free	-	1000	
Phosphating zinc-iron 5-8 my	-	16	Matt black
**Hot dip galvanising 50-60 my	-	-	Matt gray
Zinc-nickel 8 my + sealing	200	600	Matt gray
Black zinc-nickel 8 my + sealing	120	720	Matt black
**Delta Protekt® KL100	-	720	Gray with satin surface
**Delta Protekt® KL105	-	720	Gray with satin surface
**Delta Protekt® KL100 + VH301 GZ	-	1000	Gray with satin surface
**Delta Protekt® KL100 + VH302 GZ	-	1000	Gray with satin surface
**Delta Protekt® KL100 + VH315 GZ	-	1000	Gray with satin surface
**Delta Protekt® KL120	-	1000	Gray with satin surface
Nickel-Plating	-	-	Brilliant gray

* During the electroplating process the pieces absorb hydrogen that can cause breaks and cracks on the pieces. According to ISO 4042 standard, in order to get rid of this embrittlement, Growermetal bakes all the items manufactured with spring steel. Such heat treatment is duly made within two hours after the plating and before the passivation.

** Treatment not recommended for products with internal diameter inferior to 6 mm. The pieces of smaller dimensions usually stick together during the coating process.

*** Neutral salt spray test according to ISO 9227 standard.