

Coating design life of 50+ years

Based on all outdoor field tests, ArcelorMittal has calculated the coating design life¹ expectations for Magnelis® ZM310, ZM430 and ZM620 (respectively 25, 35 and 50 microns per side).

Corrosion category for Zn (ISO 12994-2:2017)	Coating design life (years ¹)		
	Magnelis® ZM310	Magnelis® ZM430	Magnelis® ZM620 ²
C2	> 50	> 50	> 50
C3	30 to > 50	40 to > 50	> 50
C4	15 to 30	20 to 40	30 to > 50
C5	8 to 15	10 to 20	15 to 30

¹ The expected coating design life is the average time until 100% of the undamaged coating, exposed only to atmospheric conditions, is consumed on the surface. At that point, the structural integrity of the coated part is no longer assured and major repair is necessary. These estimates are valid for both outdoor and indoor applications, excluding situations where the coating is in permanent contact with a moisture source, such as soil or concrete. These durations are indicative and non binding.

² feasibility on request

Please note that in June 2023, Magnelis® ZM620 was not included in the EN10346:2015 norm.