

## Corrosivity Categories and durability ranges ISO 12944

### Corrosivity categories for atmospheric environments

Corrosivity category	Thickness loss in the first year (µm)		Examples of typical environments in a temperate climate (for information only)	
	C-steel	Zinc	Exterior environment	Interior environment
C1 very low	≤ 1.3	≤ 0.1		Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels etc.
C2 low	> 1.3 - 25	> 0.1 – 0.7	Atmospheres with low level of pollution, mostly rural areas.	Unheated buildings where condensation may occur, e.g. depots, sports halls etc.
C3 medium	> 25 - 50	> 0.7 – 2.1	Urban and industrial atmospheres, moderate sulphur dioxide pollution, coastal area with low salinity.	Production rooms with high humidity and some air pollution, e.g. food processing plants, laundries, breweries, dairies etc.
C4 high	> 50 - 80	> 2.1 – 4.2	Industrial and coastal areas with moderate salinity.	Chemical plants, swimming pools, coastal ship and boat yards.
C5-I very high (industrial)	> 80 - 200	> 4.2 – 8.4	Industrial areas with high humidity and aggressive atmospheres.	Buildings or areas with almost permanent condensation and high pollution.
C5-M very high (marine)	> 80 - 200	> 4.2 – 8.4	Coastal and offshore areas with high salinity.	Buildings or areas with almost permanent condensation and high pollution.

Durability ranges (The durability range is not a „guarantee time“)

**low (L): 2 to 5 years**

**medium (M): 5 to 15 years**

**high (H): more than 15 years**