

## ISO 12944-5: 2007 - SALT SPRAY TESTING

Corrosivity Category	Typical Example (External)	Typical Example (Internal)	Durability Category	Expected Service Life (Years)	Salt Spray (Hours)
C1 Very Low	-	Heated buildings with clean atmospheres, e.g. offices, shops, schools, hotels.	Low Medium High	Up to 5 5-15 Over 15	- - -
C2 Low	Atmospheres with low level of pollution. Mostly rural areas	Unheated buildings where condensation may occur, e.g. depots, sports halls.	Low Medium High	Up to 5 5-15 Over 15	- - -
C3 Medium	Urban and industrial atmospheres, moderate sulphur dioxide pollution. Coastal areas with low salinity.	Production rooms with high humidity and some air pollution, e.g. food-processing plants, laundries, breweries, and dairies.	Low Medium High	Up to 5 5-15 Over 15	120 240 480
C4 High	Industrial areas and coastal areas with moderate salinity.	Chemical plants swimming pools, coastal ship & boat yards	Low Medium High	Up to 5 5-15 Over 15	240 480 720
C5-I Very High (Industrial)	Industrial areas with high humidity and aggressive atmosphere.	Buildings or areas with almost permanent condensation and with high pollution	Low Medium High	Up to 5 5-15 Over 15	480 720 1440
Water/Soil Category	Environment	Examples of structures			
Im1	Fresh water	River installations. hydro-electric power plants			
Im2	Sea or brackish water	Harbour areas and sluice gates, locks, jetties, off-shore structures			
Im3	Soil	Buried tanks, steel piles, steel pipes			

Section 5.5 - **The durability range is not a "guarantee time"**. Durability is a technical consideration that can help the owner set up a maintenance programme. A guarantee time is the subject of clauses in the contract and is not within the scope of this part of ISO 12944. There are no rules that link the two periods of time. The guarantee time is usually shorter than the durability range. **The ISO Standard should only be used for system comparison.**