

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.**