

ISO 12944 - Patterson Protective Coatings Ltd guide for steel structures using ISO 12944

The ISO 12944 Standard is designed as a guideline for Architects, Engineers, Specifiers, Contractors and Applicators in formulating corrosion protection systems.

| 1. Select the Environment | | |
|-----------------------------|--|---|
| Corrosion Environment | Exterior | Interior |
| C1 Very Low | | Heated buildings with clean atmospheres, e.g. offices, shops, schools & hotels |
| C2 Low | Atmospheres with low level of pollution Mostly rural areas | Unheated buildings where condensation may occur, e.g. depots, sports halls |
| C3 Medium | 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 |
| C4 High | Industrial areas and coastal areas with moderate salinity | Chemical plants, swimming pools, coastal, ship and boatyards |
| C5-I Very High (Industrial) | Industrial areas with high humidity and aggressive atmosphere | Buildings or areas with almost permanent condensation and high pollution |
| C5-M Very High (Marine) | Coastal and offshore areas with high salinity | Buildings or areas with almost permanent condensation and high pollution |
| 2. Select the Durability | | |
| | Years to 1 st Major Maintenance | |
| Low (L) | 2 – 5 Yrs | |
| Medium (M) | 5 – 15 Yrs | |
| High (H) | More than 15 – Yrs | |

Durability Consideration

- How long do you want the system to last before maintenance?
- Is the steelwork readily accessible for maintenance?

This Table is a summary of the process to achieve compliance with the ISO 12944 standard. Once you have determined the environment and durability, we can then dictate the system. Please remember, **Patterson Protective Coatings Ltd** offer sophisticated products that will effectively prevent corrosion.

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