

CORROSION

COATING THICKNESS

TECHNICAL BULLETIN CTB-4

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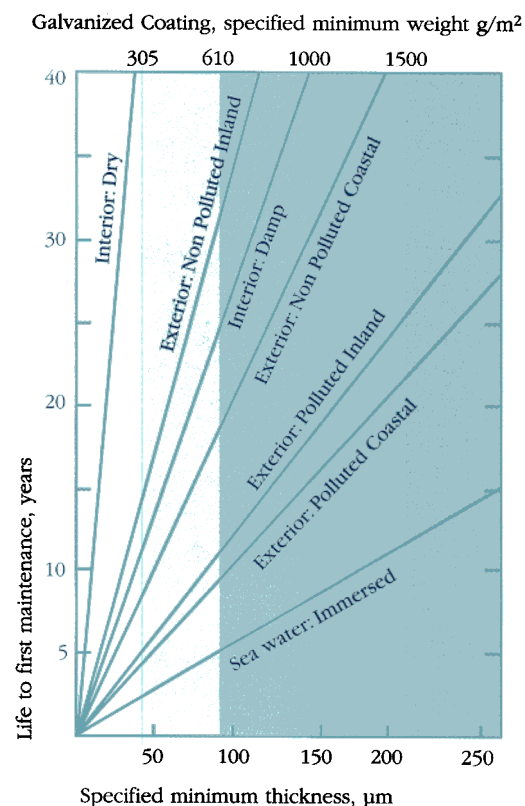
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Hot dipped zinc coatings and electrozinc coatings both protect steel in a similar manner. The main difference is, that hot-dipped zinc coatings are usually thicker and therefore offer a longer life under the same exposure conditions.

The protective life of a metallic zinc coating is essentially a function of the coating thickness. Figure 1 indicates mass loss data for hot-dipped zinc coatings as described in British Standard 5493 1977 Section 2.

This indicates life to first maintenance for galvanized coatings exposed in a wide range of environments. The table is particularly useful because it directly reflects the benefits of increased coating thickness. In general for a particular environment the life of a galvanized coating is directly proportional to the zinc coating mass.

Figure 1: British Standard 5493 1977 Section 2.



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