

GENERAL INFORMATION

Proper maintenance of steel doors and frames is crucial to ensure their durability and optimal functioning. This document presents guidelines and recommendations for conducting maintenance, priming, and painting of these elements, adhering to standards established by the Steel Door Institute (SDI) and the American National Standards Institute (ANSI). Important aspects such as manufacturing processes, the type of paint to use, and necessary precautions to prevent issues like corrosion are addressed. Adhering to these guidelines is essential to guarantee the integrity and aesthetics of steel doors and frames in any environment.

Maintenance of Steel Doors and Frames should be carried out following the guidelines set forth in SDI 124-98 "Maintenance of Standard Steel Doors and Frames". Priming and painting should comply with sections 2.1.3, 2.1.4, and 2.1.5 of SDI A250.8. Additionally, it is recommended to follow the recommendations of ANSI A250, including, among others, section A250.8 4.1-4.6 and appendix "B".

The production of steel doors and frames involves various processes such as spot welding, projection welding, and grinding, among others. These processes may result in visibility issues after the application of the final paint. It's important to note that these characteristics are inherent to production and should not be considered manufacturing defects.

The glossiness of the paint affects visibility; therefore, a maximum of 20% reflectance is recommended according to SDI A250.8. Additionally, the use of translucent paints is not recommended as they may accentuate visibility characteristics.

Regarding glossy paints, their application can be challenging, especially when using aerosols. If glossy paints are chosen, extensive cleaning, sanding, and painting may be necessary, and visibility issues may still persist.

The use of black or dark-colored paint on exterior doors without considering additional expansion and contraction is not recommended.

Lastly, it's important to note that the use of water-based paints as final topcoats is not advised. If used, the door or frame should first be primed with a primer containing rust inhibitors recommended by the paint manufacturer for bare steel. It's crucial to thoroughly clean any metal particles present on the primer coat before painting, as they may cause rust to develop through the final paint coat.