

APPLICATION

Corrosion protection

When selecting a suitable finish or material, corrosion protection often plays a decisive role alongside the inclusive visual image of the door and hardware. In practice it is important to have both components working in harmony, to maintain a lasting, overall impression.

The main materials and finishes from SIMONSWERK are tested in accordance with the specifications of DIN EN 1670 and are classified as follows:

Stainless steel	Class 5
Powder coated (coloured)	Class 5
Stainless steel look (aluminium)	Class 4
Top zinc	Class 4
Galvanised	Class 3
Polished chromed	Class 2
Satin chromed	Class 1

Class 1 = **24 hour** salt spray test

Class 2 = **48 hour** salt spray test

Class 3 = **96 hour** salt spray test

Class 4 = **240 hour** salt spray test

Class 5 = **480 hour** salt spray test

All other finishes not listed here satisfy only optical requirements.

In damp locations and on components exposed to the elements, we recommend the use of stainless steel hinges only, as this is the only material proved to be corrosion resistant over the long term.

Even stainless steel material can reach its limits under extreme conditions (such as coastal regions, indoor swimming pools, rooms with aggressive air, etc.). Continual maintenance will guard against the onset of light surface and flash rust. Cleaning periods depend on usage and the degree of pollution. Further information on caring for stainless steel material can be found at www.simonswerk.com.

Specific material usage can improve stainless steel's resistance to corrosion. We would be happy to advise you.

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