

Performance and maintenance advice on Urban Front Door Furniture

MATERIAL CERTIFICATION

The AISI 316L stainless steel (1) steel used, meets the requirements of UNI EN 1670, the ultimate quality standard for ensuring resistance to corrosion. All handles used on Urban Front Doorsets has been awarded a certificate for successfully salt spray testing the stainless steel in accordance with UNI ISO 9227.

(1) X2CrNiMo 17-12-2 as per EN 10088-3

DYNAMIC TESTING OF WASHER-HANDLE SYSTEMS

The system is tested at:

- axial loading = 70 N
- torque loading, measured 70 mm from the axis of rotation = 50 N
- 200,000 cycles

DYNAMIC TESTING OF PULL HANDLES

All pull handles used on Urban Front doorsets are tested at:

- 150,000 cycles on 70 kg doors

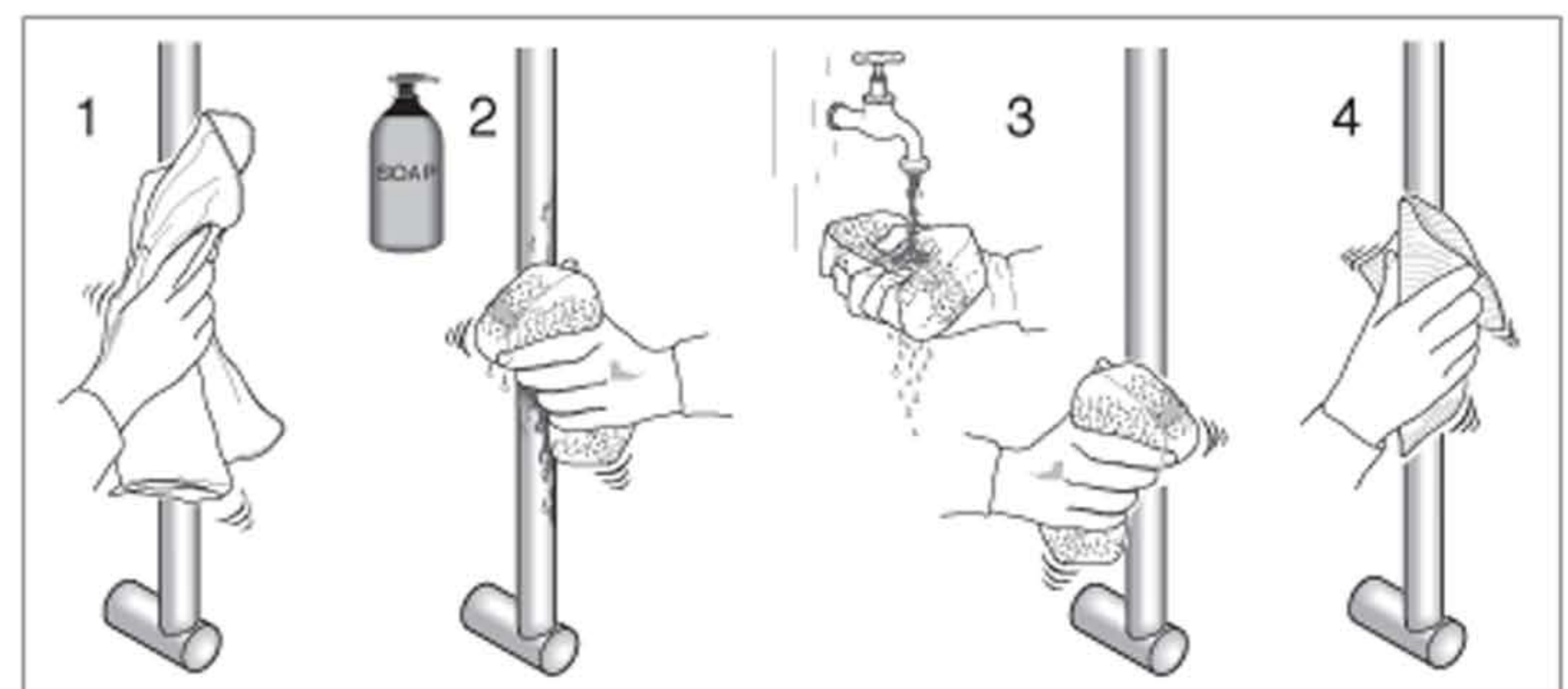
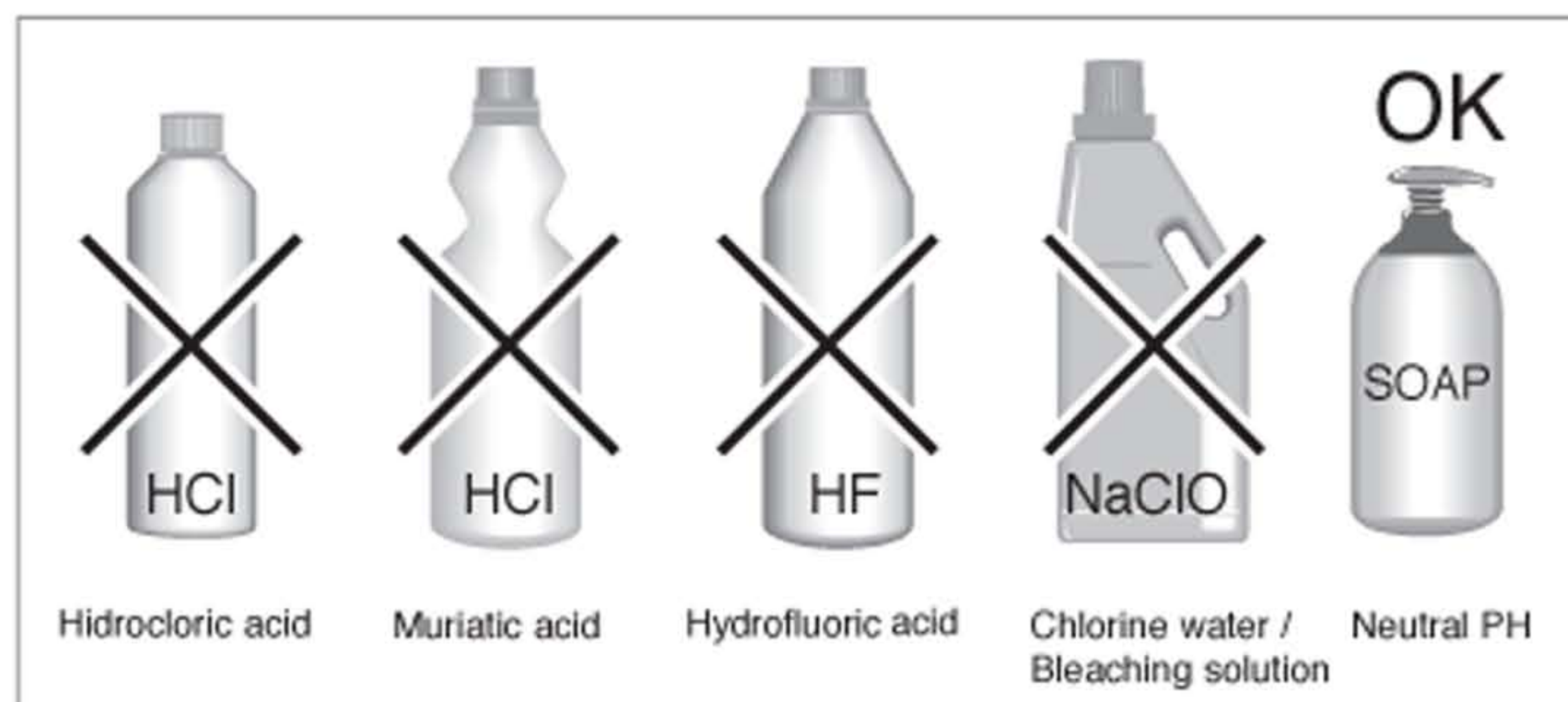
Chemical compositions of AISI stainless steel grades

Material - Stainless steel	C %	Cr %	Ni %	Mo %
AISI 430 (1.4016)	0,12 max	14.0-18.0	/	/
AISI 304 (1.4301)	0,08 max	18.0-20.0	8.0-10.5	/
AISI 316 (1.4401)	0,08 max	16.0-18.0	10.0-14.0	2.00-3.00
AISI 316L (1.4404)	0,03 max	16.0-18.0	10.0-14.0	2.00-3.00

Estimated pit corrosion time – time to penetrate 1 mm (years) by steel type c

Location - Stainless Steel	Marine	Semi-industrial	Rural
Stainless steel AISI 430 (1.4016)	N/A	85	250
Stainless steel AISI 304 (1.4301)	145	135	770
Stainless steel AISI 316 (1.4401)	260	525	1200

Source: The British Stainless Steel Association [BSSA]



ADVICE FOR A CORRECT MAINTENANCE OF URBAN FRONT PRODUCTS IN STAINLESS STEEL