EMEAI Valspar bv
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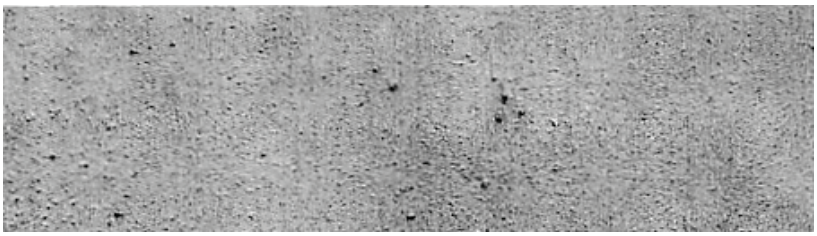
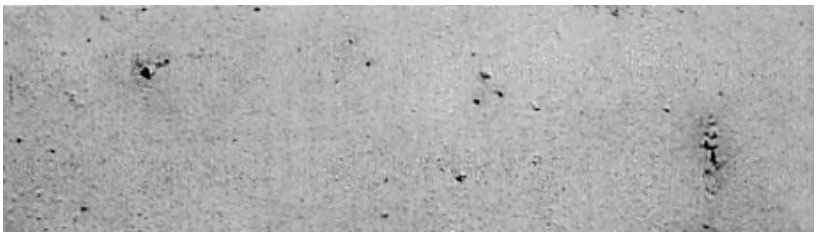
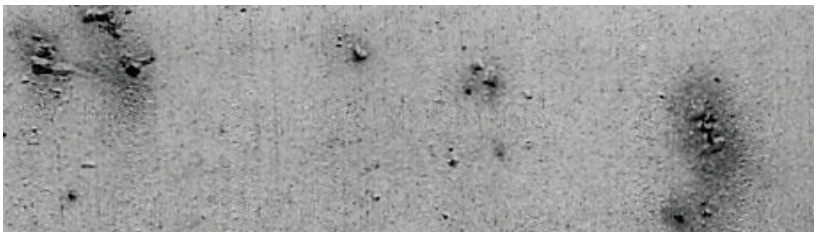
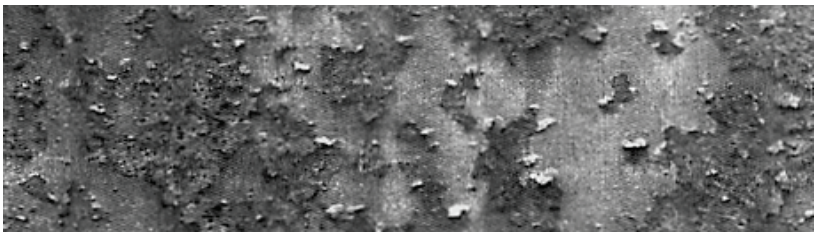
General Information: Rust Grades TI – G – 02 / UK

Rust grades of steel

Steel is classified according to the degree to which corrosion attacks and causes rust.

Coated surfaces

You can compare the degree of corrosion to the painted area. If the painted part is without corrosion it is Ri 0; if the painted part is around 1% (1 out of 100) it is Ri 1, and so on - see the examples below:

Degree of rust	Pictures from rust – DIN EN ISO 4628-3 and DIN 53210	Covered rust area
Ri 0		Without rust
Ri 1		around 1%
Ri 2		around 3%
Ri 3		around 10%
Ri 4		around 30%
Ri 5		around 50%

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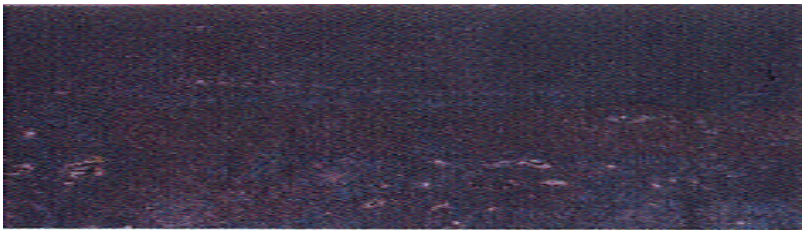
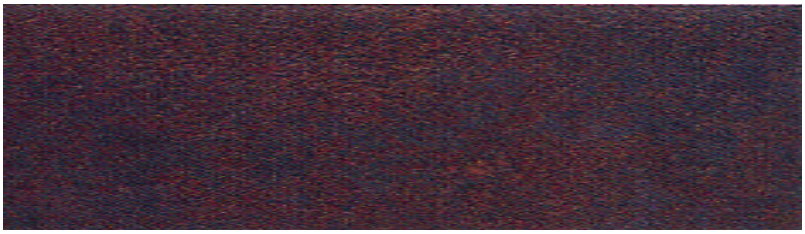
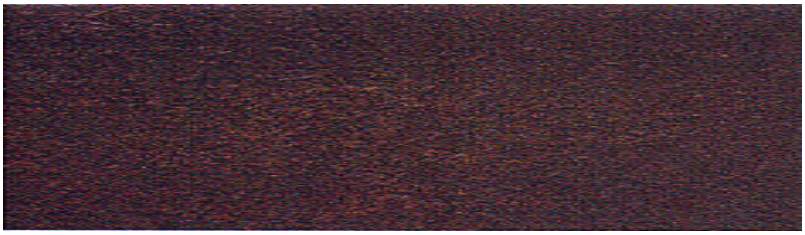
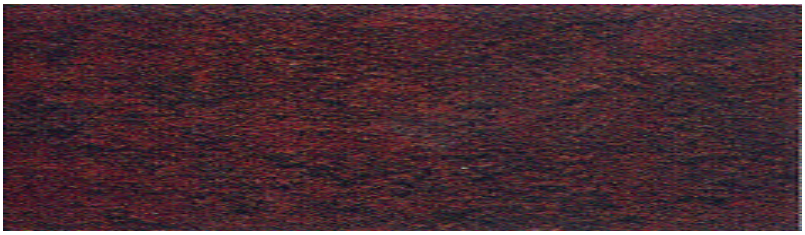
Uncoated (bare) steel surfaces

The rust grade is also compared visually. It graded as A,B,C or D. This gradation describes the coverage of areas with rust, mill scale and scale.

Degree of rust	Pictures from rust ISO 8501-1+2 and DIN 55928	Condition
A		The whole surface is covered with mill scale and scale – no rust
B		Beginning to rust – mill scale and scale are starting to show
C		Mill scale and scale are more or less peeling/rusted off due to the corrosion process – less visible pitting corrosion
D		Completely rusted – extreme pitting corrosion visible