



LAB N° 1170

TEST REPORT
CERAMIC TILES - DETERMINATION OF RESISTANCE TO STAINS
UNI EN ISO 10545-14: 2015

Test report n. 5006/2016 /I
Date of report: 11/15/2016
Customer: GRUPPO ROMANI S.P.A.
Via Alessandro Volta nr.9, 23/25
42013 CASALGRANDE (RE)
Requested on: 11/08/2016
Our ref.number: 18662
Execution place of tests: Scandiano (RE)
Description of the sample: "Ceramic tiles unglazed 60x60 cm
marked: Serie STONE BOX RET BRERA"
Sampling: carried out by the customer
Receipt date of samples: 11/10/2016
Execution date of tests: start: 11/10/2016 end: 11/15/2016
Test specification: UNI EN ISO 10545 - 14:2015
Determination of resistance to stains



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The reported results relate only to the samples tested.
The information included in quotation marks was provided by the customer.*



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Principle: determination of the resistance to stains by maintaining test solutions and materials in contact with the proper surface of the tiles for a suitable length of time; the surfaces are then subjected to defined cleaning methods, and finally inspected for visual changes.

N. samples tested: 5

Test results:

<u>Staining agents</u>	Sample 1 Class	Sample 2 Class	Sample 3 Class	Sample 4 Class	Sample 5 Class
<u>Stains leaving a trace (pastes)</u>					
Green staining agent in light oil	5	5	5	5	5
<u>Stains having chemical/oxidizing action</u>					
Iodine, alcoholic solution 13 g/l	5	5	5	5	5
<u>Stains forming a film</u>					
Olive oil	5	5	5	5	5

Classification procedure of the test of resistance to stains:

- Class 5: Procedure A, stain removed with warm water (55 ± 5) °C, allowed to flow for 5 min
- Class 4: Procedure B, stain removed manually using a natural non-abrasive sponge and weak cleaning agent, (pH 6.5÷7.5) (Ajax liquid)
- Class 3: Procedure C, stain removed mechanically for 2 min using a strong cleaning agent containing abrasive (pH 9÷10) (Cif)
- Class 2: Procedure D, stain removed by immersing the sample in a suitable solvent for 24 hours.
- Class 1: stain not removed



THE DIRECTOR
(M. Simioli)

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