



**TEST REPORT**

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

Test report n. 5240/2018 /I  
Date of report: 12/17/2018  
Customer: GRUPPO ROMANI S.P.A.  
Via Alessandro Volta nr.9, 23/25  
42013 CASALGRANDE (RE)  
Requested on: 12/07/2018  
Our ref.number: 23957  
Execution place of tests: Scandiano (RE)  
Description of the sample: "Ceramic tiles 60x60 cm  
marked: SQUARE WHITE R9"  
Sampling: carried out by the customer  
Receipt date of samples: 12/07/2018  
Execution date of tests: start: 12/13/2018 end: 12/14/2018  
Test specification: UNI EN ISO 10545 - 14:2015  
Determination of resistance to stains  
Warnings: *This test report can not be reproduced in part, without our written consent.  
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.L. Sassuolo)

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