



LAB N° 1170

TEST REPORT
CERAMIC TILES - DETERMINATION OF CHEMICAL RESISTANCE
UNI EN ISO 10545-13: 2017

Test report n. 3365/2017 /I
Date of report: 09/15/2017
Customer: GRUPPO ROMANI S.P.A.
Via Alessandro Volta nr.9, 23/25
42013 CASALGRANDE (RE)
Requested on: 07/05/2017
Our ref.number: 20616
Execution place of tests: Scandiano (RE)
Description of the sample: "Ceramic tiles glazed 6,5x40 cm
marked: Serie ALASKA art. SAND""
Sampling: carried out by the customer
Receipt date of samples: 08/29/2017
Execution date of tests: start: 09/05/2017 end: 09/11/2017
Test specification: UNI EN ISO 10545 - 13:2017
Determination of chemical resistance
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: Subjection of the test specimens to the action of the test solutions and visual determination of attack after a defined period.

Sample preparation: the specimens were prepared as described at point 7.3 of the Standard

Number of samples tested: 3 for each test solution

Pencil test: **passed (normal classification)**

Procedure followed: partial immersion

Test solution	Classification (Class)		
	Specimen 1	Specimen 2	Specimen 3
<u>Household chemicals</u>			
ammonium chloride sol., 100 g/l	A	A	A
<u>Swimming pool salts</u>			
sodium hypochlorite sol., 20 mg/l	A	A	A
<u>Acids (low concentrations)</u>			
hydrochloric acid sol., 3 % (V/V)	L A	L A	L A
citric acid solution, 100 g/l	L A	L A	L A
<u>Alkalis (low concentrations)</u>			
potassium hydroxide sol., 30 g/l	L A	L A	L A
<u>Acids (high concentrations)</u>			
hydrochloric acid sol., 18 % (V/V)	H A	H A	H A
lactic acid solution, 5 % (V/V)	H A	H A	H A
<u>Alkalis (high concentrations)</u>			
potassium hydroxide sol., 100 g/l	H A	H A	H A





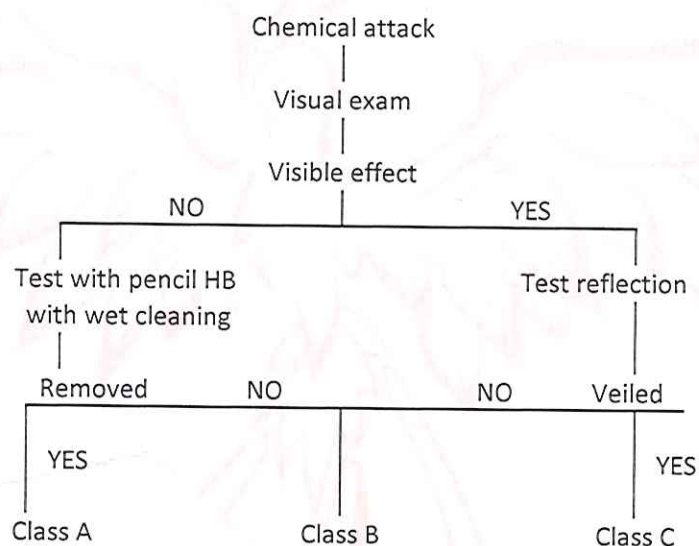
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Classification for resistance to chemical attack for the glazed tiles

Case of "normal Classification"



Alternative classification for resistance to chemical attack for the glazed tiles

Case of "Normal classification not possible"

Class GA(V)-GLA(V)-GHA(V): no visible effect

Class GB(V)-GLB(V)-GHB(V): effective changes in appearance

Class GC(V)-GLC(V)-GHC(V): partial or complete loss of original surface

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THE DIRECTOR
(M.L. Simoli)