



# Geoceramic Researches S.r.l.

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Laboratory for Experimental and Technological Ceramics and Brick Industries

## TEST REPORT

TS N°: 287/17eng

DATE 05/01/2018

Spett.le  
GRUPPO ROMANI S.p.A.  
Via A. Volta, 9-23/25  
42013 CASALGRANDE RE

## B.C.R.A. METHOD SLIPPERY

The test has been carried out using measuring instrument TORTUS® of the coefficient of dynamic friction between a sliding element and the surface of test.

### Operating conditions:

- Speed of advance (mm/s): 17 - Loaded junior clerk to sliding element (g): 200

### Samples arrived 20/12/2017 (sampling executed by Customer)

**DESCRIPTION TILES : 100x100 cm**

**TYPE : 1B2 CERCOM MB3 GHIACCIO RET A 51 5**

Test start 03/01/2018

Test finished 03/01/2018

Covering material of sliding element	Superficial test of condition				Coefficient of friction ( $\mu$ )	
Leather	Dry				0,44	
Hard rubber standard	Wet (water + bathing agent)				0,68	
Singles test of coefficient of friction						
with leather:	0,43	0,44	0,44	0,45	0,44	
with hard rubber standard	0,70	0,68	0,69	0,67	0,68	

### REFERENCE VALUE

$\mu < 0.20$   
 $0.20 < \mu > 0.40$   
 $0.40 < \mu > 0.74$   
 $\mu > 0.74$

### (B.C.R.A. REP. CEC. 6/81)

Danger slippery  
Excessive slippery  
Satisfaction friction  
Excellent friction

Requirement ("Regulations of performance dell' art.1 of the law 9 January 1989, n.13" - Decree Ministerial 14/06/89, n° 236 Art. 8.2.2)

### $\mu$ (coefficient of friction) :

- for leather sliding element to dry paving : > 0.40  
- for hard rubber sliding element to wet paving : > 0.40

Laboratory Head  
P.I. Riccardo Frabetti