



## TEST REPORT: 20082422

Modena, 05/05/10

<b>CUSTOMER</b>	LAMINAM SPA - - VIA GHIAROLA NUOVA 258 - 41042 - FIORANO MODENESE - MO	
<b>MATERIAL and/o SAMPLE to be tested</b>	LAMINATED PORCELAIN cm 20X30	
<b>Denomination</b>	COLLECTION FUMO – LAMINAM 3+;	
<b>Date of sample reception</b>	30/04/2008;	
<b>Kind of test executed</b>	Determination of Flexion Resistance	
<b>Referring standards</b>	UNI EN ISO 10545/4-00	
<b>Shifting from standards</b>	No one	
<b>Equipment</b>	Crometro CRAB 424 cod. MCP C17	Calibro Mitutoyo cod. MCP M44
<b>Calibration</b>	06/10/2006	07/06/2005
<b>Subcontracted phases</b>	No one	
<b>Sampling made by</b>	Customer	

The test results showing in this Report are only referred to the sample taken by our staff or supplied by the Customer. He commits himself to reproduce integrally this document. Partial reproduction is forbidden.  
 The times of retain of the samples was indicated in the Conditions of the offer or contract to which this Report refers, in "Pratiche Operative Standard" and in "Manuale Qualità".

Beginning date : 05/05/2008

Analysis ending date : 05/05/2008

### DETERMINATION OF FLEXION RESISTANCE

**SAMPLE** : Ceramic tiles, size cm. 20X30 and marked « COLLECTION FUMO – LAMINAM 3+ »

The test has been performed applying a load on three points, with the central load to contact with the centre line of the does superior of the tile.

#### EXPERIMENTAL CONDITIONS

- **d** (switches diameter) mm : 20
- **t** (depth of switches covering) mm : 5
- **l** (distance between bearing surface and the lip of tile) mm : 10
- **L** (distance between bearing surface) mm : 280

#### RESULTS

Parametro	Unit of measure							
		1	2	3	4	5	6	7
Tile n°								
Breaking load <b>F</b>	N	528	539	509	529	503	534	505
Breaking strength <b>S</b>	N	739	755	713	741	704	748	707
Modulus of rupture <b>R</b>	N/mm <sup>2</sup>	108,3	110,5	104,4	108,5	103,2	109,5	103,6
Thickness	mm	3,2	3,2	3,2	3,2	3,2	3,2	3,2

- Breaking load **F** average N : 512
- Breaking strength **S** average N : 729
- Modulus of rupture **R** average N/mm<sup>2</sup> : 106,9

#### REQUIREMENTS

( Norm EN 14411 Annex G)

- Modulus of rupture **R** average N/mm<sup>2</sup> : ≥ 35 N/mm<sup>2</sup>, no applicable with breaking strength ≥ 3000 N.
- Single value : > 32

<b>Examiner</b> <i>Xtreen</i> P.I. Biorci Ivan	<b>Ceramic Dept. Responsible</b> <i>Xtreen</i> P.I. De Pasquale Roberto	<b>Director</b> <i>[Signature]</i> Dr. Sant'Unione Giuseppe
--	---	---

