



**BUREAU
VERITAS**

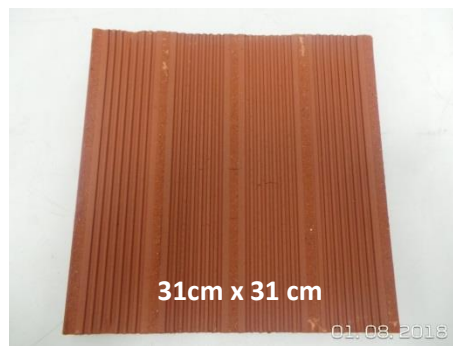
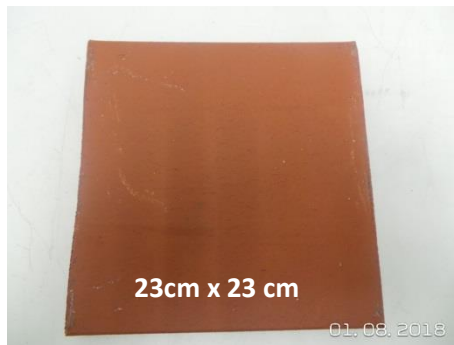
CONSUMER PRODUCTS SERVICES DIVISION

Technical Report: (7617)363-0019

January 10, 2018

Date Received: January 02, 2018

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INDUSTRIAS NOVACERAMIC, S.A. DE C.V.
AV. REVOLUCION NO. 1877-1202
ALVARO OBREGON, CDMX 01000

ATTN: ING. GILBERTO MENDEZ PINEDA
CC: /

OVERALL RATING

PASS

Sample Description:	PISO DE BARRO EXTRUIDO (23 X 23 CM) PISO DE BARRO EXTRUIDO (31 X 31 CM)		
Manufacturer:	INDUSTRIAS NOVACERAMIC, S.A. DE C.V.	Lot #:	N/A
Buyer:	N/A	SKU / Style #:	N/A
Country of Origin:	MEXICO	Country of Destination:	N/A
Color:	N/A	Item #:	N/A
Re-test:	Yes: <input type="checkbox"/> No: <input checked="" type="checkbox"/>	Charge Vendor:	Yes: <input checked="" type="checkbox"/> No: <input type="checkbox"/>
Previous Report No.:	N/A		

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EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

Tests required	Rating	Comments / Remarks
Resistance To Freeze	PASS	See Attached Table 3

The results of the tests performed are presented in the next section evaluated as DATA:

Tests required	Rating	Comments / Remarks
Water Absorption	DATA	See Attached Table 1
Breaking Strength	DATA	See Attached Table 2
Resistance To Wear	DATA	See Attached Table 4
Resistance To Compression	DATA	See Attached Table 5

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SIGNATURES Bureau Veritas Consumer Product Services

RAFAEL AUTRAN
Hardlines OPS Manager - Bureau Veritas CPS
Mexico



RESULTS:

1) WATER ABSORPTION – ASTM C373-88 (R1999)

Sample ID	Sample Description	Sample Weight After 24 Hr Of Drying (Kg)	Sample Weight After 5 Hr Of Boiling Water Exposure (Kg)	Water Absorption %	Rating
A.	Tile 1 (23 cm x 23 cm)	0.9500	1.0450	10.0	DATA
	Tile 2 (23 cm x 23 cm)	0.9250	1.0190	10.2	DATA
	Tile 3 (23 cm x 23 cm)	0.9030	1.0110	12.0	DATA
	Tile 4 (23 cm x 23 cm)	0.9430	1.0530	11.7	DATA
	Tile 5 (23 cm x 23 cm)	0.8590	0.9660	12.5	DATA
B.	Tile 1 (31 cm x 31 cm)	1.4200	1.5360	8.2	DATA
	Tile 2 (31 cm x 31 cm)	1.7700	1.9510	10.2	DATA
	Tile 3 (31 cm x 31 cm)	1.6990	1.8280	7.6	DATA
	Tile 4 (31 cm x 31 cm)	1.8100	1.9130	5.7	DATA
	Tile 5 (31 cm x 31 cm)	1.4270	1.5860	11.1	DATA

2) BREAKING STRENGTH – ASTM C648-04

Sample ID	Sample Description	Max. Force Calc. at Entire Areas (N)	Break strength Sensibility 10	Standard Deviation	Rating
A.	Tile 1 (23 cm x 23 cm)	2165.89	--	--	DATA
	Tile 2 (23 cm x 23 cm)	2620.27	--	--	DATA
	Tile 3 (23 cm x 23 cm)	2591.90	--	--	DATA
	Tile 4 (23 cm x 23 cm)	2068.38	--	--	DATA
B.	Tile 1 (31 cm x 31 cm)	3844.02	3432.89	--	DATA
	Tile 2 (31 cm x 31 cm)	3455.54	3392.60	--	DATA
	Tile 3 (31 cm x 31 cm)	3681.37	--	--	DATA
	Tile 4 (31 cm x 31 cm)	3150.46	3094.29	--	DATA



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3) RESISTANCE TO FREEZE / THAW CYCLING – ASTM C1026-87 (R2002)

Sample ID	Sample Description	Sample Weight Before Of Test (Kg)	Sample Weight After Of Test (Kg)	Weightloss %	Rating
A.	Tile 1 (23 cm x 23 cm)	1	1.01	1.00	PASS
	Tile 2 (23 cm x 23 cm)	0.898	0.907	0.99	PASS
	Tile 3 (23 cm x 23 cm)	0.964	0.974	1.03	PASS
	Tile 4 (23 cm x 23 cm)	0.89	0.893	0.34	PASS
	Tile 5 (23 cm x 23 cm)	0.724	0.725	0.14	PASS
B.	Tile 1 (31 cm x 31 cm)	1.47	1.476	0.41	PASS
	Tile 2 (31 cm x 31 cm)	1.608	1.615	0.43	PASS
	Tile 3 (31 cm x 31 cm)	1.692	1.698	0.35	PASS
	Tile 4 (31 cm x 31 cm)	1.49	1.497	0.47	PASS
	Tile 5 (31 cm x 31 cm)	1.484	1.489	0.34	PASS

4) RESISTANCE TO WEAR – ASTM C501 / H-4045.2

Sample ID	Sample Description	Abrasive Wear Index	Inicial Weight (Gr)	Final Weight (Gr)	Rating
A.	Tile 1 (23 cm x 23 cm)	11	312	300	DATA
B.	Tile 2 (31 cm x 31 cm)	44	304	298	DATA

5) RESISTANCE TO COMPRESSION – ASTM C76

Sample ID	Sample Description	Max. Force Calc. at Entire Areas (N)	CS (lbf/in ²)	Standard Deviation	Rating
A.	Tile 1 (23 cm x 23 cm)	2524.09	81.4742	--	DATA
B.	Tile 1 (31 cm x 31 cm)	3163.34	103.978	--	DATA