the **tile_**company

URBAN COLLECTION

CARACTERÍSTICAS TÉCNICAS **Technical characteristics**		**NORMA DE ENSAYO** TEST ESTANDAR **UNE-ISO-10545**	**NORMA DE PRODUCTO** PRODUCT STANDARD **ISO 13006**	**VALORES PROMEDIA THE TILE COMPANY** THE TILE COMPANY AVERAGE VALUES
	**LONGITUD Y ANCHURA** Length and width	**10545-2**	**± 0.6%**	**± 0.1%**
	GROSOR Thickness		**± 5.0%**	**± 5.0%**
	RECTITUD DE LOS LADOS Straightness of sides		**± 0.5%**	**± 0.1%**
	ORTOGONALIDAD Rectangularity		**± 0.6%**	**± 0.1%**
	PLANITUD DE LA SUPERFICIE Surface planarity		**± 0.5%**	**±0.25%**
	**ABSORCIÓN DE AGUA** Water absorption	**UNE-EN-ISO 10545-3**	**≤ 0.5%**	**≤ 0.1%**
	**RESISTENCIA A LA FLEXIÓN** Bending strength	**UNE-EN-ISO 10545-4**	**MIN 35 N/MM2**	**52 N/MM2**
	CARGA DE ROTURA Breakage load	**UNE-EN-ISO 10545-4**	**MIN 1300 N**	**2000 N**
	**RESISTENCIA A LA ABRASIÓN PROFUNDA** Deep abrasion resistance	**UNE-EN-ISO 10545-6**	**MAX 175 MM3**	**120 MM3**
	**DILATACIÓN TÉRMICA** Thermal expansion	**UNE-EN-ISO 10545-8**	**METODO ENSAYO DISPONIBLE** Test method available	
	**RESISTENCIA AL HIELO** Frost resistance	**UNE-EN-ISO 10545-12**	**RESISTE** Resistant	**RESISTE** Resistant
	**RESISTENCIA A ATAQUES QUÍMICOS** Resistance to chemical attack	**UNE-EN-ISO 10545-13**	**RESISTE** Resistant	**RESISTE** Resistant
	**RESISTENCIA A LAS MANCHAS** Resistance to stining	**UNE-EN-ISO 10545-14**	**CONFORME A LAS NORMAS** Complies with standards	**CONFORME A LAS NORMAS** Complies with standards

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MANCHAS STAINS	**PRODUCTOS QUÍMICOS** CHEMICALS	**DETERGENTE** DETERGENT CLEANER
FRUTAS, TOMATE SALSA, CHOCOLATE Fruits, tomato, sauces, chocolate	**AMONIACO, ÁCIDO CLORHÍDRICO** Ammonia, hydrochloric acid	**DETERGENTE ALCALINO** Alkaline cleaner/Detergent
ACEITE VEGETAL/ANIMAL, VINO, CERVEZA, HELADOS, CAFÉ Vegetable oil, wine, beer, ice creams, coffe	**ÁCIDO CLORHÍDRICO 10% AMONIACO** Hydrochloric acid 10% ammonia	**DETERGENTE ALCALINO** Alkaline cleaner/Detergent
SANGRE Blood	**HIPOCLORITO SÓDICO** Sodium hypochloride	**DETERGENTE ALCALINO** Alkaline cleaner/Detergent
RESTOS DE CEMENTO Cement residue	**ÁCIDO CLORHÍDRICO 10%** Hydrochloric acid 10%	**DETERGENTE ÁCIDO** Acid detergent
ÓXIDO Y RESTOS METÁLICOS Oxide and metallic residue	**ÁCIDO CLORHÍDRICO, ÁCIDO SULFÚRICO** Hydrochloric acid, sulphuric acid	**DETERGENTE ÁCIDO** Acid detergent
NICOTINA Nicotine	**ÁCIDO CÍTRICO** Citric acid	**DETERGENTE ALCALINO** Alkaline cleaner/Detergent
GOMA DE ZAPATO, NEUMÁTICO Shoe or tire marks	**TRICLORO ETILENO, ACETONA** Acetone	**DISOLVENTE ORGÁNICO** Organic solvent
ACEITES LUBRICANTES, LÁPIZ, BETÚN Lubricant oil, pencil lead, grease	**TRICLORO ETILENO, ACETONA** Acetone	**DISOLVENTE ORGÁNICO** Organic solvent
RESINAS, LACA DE ESMALTE Resin, nail varnish	**DISOLVENTE NÍTRICO** Nitric solvent	**DISOLVENTE ORGÁNICO** Organic solvent
TINTAS Ink	**SOLUCIÓN DE HIPOCLORITO SÓDICO O ÁCIDO SULFÚRICO, ACIDO NÍTRICO** Sodium hydrochloride solution, sulphuric acid, nitric acid	**DETERGENTE ÁCIDO** Acid detergent

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TILE COUNCIL OF NORTH AMERICA, INC.

PRODUCT TESTING SERVICE

100 Clemson Research Blvd. • Anderson, SC 29625 • Tel (864) 646-TILE • Fax (864) 646-2821

TCNA TEST REPORT NUMBER: PTCA-037-12

TEST SUBJECT MATERIAL: Identified by client as: Series: Urban Series
Nominal Size: 12" x 24"
Color: URB014P
Caliber: Not Provided
Lot #: Not Provided
Manufacturer: Same as above

TEST DATE: 5/18/12 – 5/22/12

TEST PROCEDURE: ASTM C373: "Standard Test Method for Water Absorption, Bulk Density, Apparent Porosity, and Apparent Specific Gravity of Fired Whiteware Products"
-Five specimens were tested.
-The specimens were subjected to a five-hour boil and 24-hour soak to room temperature.

TEST RESULTS: The average water absorption of five (5) specimens was: **0.07%**. This value classifies the subject material as *impervious* (with a water absorption of less than 0.5 percent).

The individual results of water absorption were as follows:
Specimen 1: 0.07 %
Specimen 2: 0.08 %
Specimen 3: 0.07 %
Specimen 4: 0.07 %
Specimen 5: 0.06 %

[According to the Porcelain Tile Certification Agency, to qualify for porcelain tile certification, the average water absorption of the series shall be 0.5% or less.]

Katelyn Simpson 5/23/12
Katelyn Simpson — Date
Laboratory Manager

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TCNA TEST REPORT NUMBER: TCNA-264-11 **PAGE:** 1 OF 2

TEST SUBJECT MATERIAL: Identified by client as: The Tile Company, Urban Collection

TEST DATE: 7/27/11

TEST PROCEDURE: ISO 10545-2: "Determination of Dimensions and Surface Quality": Section 6 Measurements of Surface Flatness
-Ten (10) tiles were tested for measurement of surface flatness.
-The nominal size of the product was **24.000 x 24.000 in** (610 x 610 mm).

TEST RESULTS:

	Center Curvature (%)
Tile 1	-0.03%
Tile 2	-0.06%
Tile 3	-0.02%
Tile 4	-0.07%
Tile 5	-0.05%
Tile 6	-0.04%
Tile 7	-0.06%
Tile 8	0.00%
Tile 9	0.01%
Tile 10	0.02%
Average	**-0.03%**
Maximum Center Curvature	**-0.07%**

[The ISO 13006 Group BIa requirement is: the maximum deviation from flatness, in percent, related to the work size is (± **0.500%**)]

Katelyn Simpson
Laboratory Manager

8/1/11
Date

TILE COUNCIL OF NORTH AMERICA, INC.

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TCNA TEST REPORT NUMBER: TCNA-264-11 **PAGE:** 2 OF 2

TEST SUBJECT MATERIAL: Identified by client as: The Tile Company, Urban Collection

TEST RESULTS:

	Edge Curvature (%)				
	Side 1	Side 2	Side 3	Side 4	Average
Tile 1	0.01%	0.05%	0.00%	0.04%	0.02%
Tile 2	0.05%	0.01%	0.05%	-0.01%	0.02%
Tile 3	0.01%	0.00%	0.02%	0.00%	0.01%
Tile 4	0.06%	0.00%	0.06%	-0.01%	0.03%
Tile 5	-0.02%	0.03%	-0.02%	0.04%	0.01%
Tile 6	0.00%	0.05%	0.00%	0.04%	0.02%
Tile 7	0.01%	0.03%	0.02%	0.05%	0.03%
Tile 8	-0.02%	0.01%	-0.04%	-0.03%	-0.02%
Tile 9	-0.04%	0.00%	-0.04%	0.00%	-0.02%
Tile 10	-0.02%	-0.03%	0.00%	-0.02%	-0.02%
				Average	**0.01%**
			Maximum Edge Curvature		**0.06%**

[The ISO 13006 Group BIa requirement is: the maximum deviation from flatness, in percent, related to the work size is **(± 0.500%)**]

	Warpage (%)				
	Side 1	Side 2	Side 3	Side 4	Average
Tile 1	-0.07%	0.07%	-0.06%	0.07%	0.00%
Tile 2	0.07%	-0.06%	0.07%	-0.06%	0.01%
Tile 3	0.11%	-0.11%	0.11%	-0.09%	0.01%
Tile 4	0.07%	-0.07%	0.07%	-0.07%	0.00%
Tile 5	-0.07%	0.07%	-0.08%	0.08%	0.00%
Tile 6	-0.07%	0.08%	-0.06%	0.08%	0.01%
Tile 7	-0.08%	0.08%	-0.10%	0.09%	0.00%
Tile 8	-0.11%	0.08%	-0.08%	0.07%	-0.01%
Tile 9	-0.07%	0.06%	-0.07%	0.07%	0.00%
Tile 10	0.05%	-0.05%	0.04%	-0.05%	0.00%
				Average	**0.00%**
			Maximum Warpage		**0.11%**

[The ISO 13006 Group BIa requirement is: the maximum deviation from flatness, in percent, related to the work size is **(± 0.500%)**]

Katelyn Simpson 8/1/11

Katelyn Simpson
Laboratory Manager

Date

TILE COUNCIL OF NORTH AMERICA, INC.

PRODUCT TESTING SERVICES

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TCNA TEST REPORT NUMBER: TCNA-234-10 **PAGE: 1 OF 1**

TEST SUBJECT MATERIAL: Identified by client as: The Tile Company (URB016)

TEST DATE: 7/15/10

TEST PROCEDURE: ASTM C1028: "Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method"
-A Chatillon DFIS 100 digital force gauge was used to measure each pull in pounds-force.
-A 3 x 3 x 1/8-inch piece of Neolite was used as the sensor.

TEST RESULTS: The average static coefficient of friction of four (4) pulls on each tile was as follows:

		As Received	After Cleaning
Tile 1:	Dry:	**0.75**	**0.79**
	Wet:	**0.71**	**0.69**
Tile 2:	Dry:	**0.74**	**0.77**
	Wet:	**0.71**	**0.71**
Tile 3:	Dry:	**0.74**	**0.79**
	Wet:	**0.72**	**0.70**

The average static coefficient of friction of twelve (12) pulls was as follows:

	As Received	After Cleaning
Dry:	**0.74**	**0.79**
Wet:	**0.72**	**0.70**

Katelyn Simpson — 7/16/10
Katelyn Simpson Date
Laboratory Manager

TILE COUNCIL OF NORTH AMERICA, INC.

PRODUCT TESTING SERVICES

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TCNA TEST REPORT NUMBER: TCNA-234-10 **PAGE:** 1 **OF** 1

TEST SUBJECT MATERIAL: Identified by client as: The Tile Company (URB016P)

TEST DATE: 7/15/10

TEST PROCEDURE: ASTM C1028: "Standard Test Method for Determining the Static Coefficient of Friction of Ceramic Tile and Other Like Surfaces by the Horizontal Dynamometer Pull-Meter Method"
-A Chatillon DFIS 100 digital force gauge was used to measure each pull in pounds-force.
-A 3 x 3 x 1/8-inch piece of Neolite was used as the sensor.

TEST RESULTS: The average static coefficient of friction of four (4) pulls on each tile was as follows:

		As Received	After Cleaning
Tile 1:	Dry:	**0.82**	**0.91**
	Wet:	**0.45**	**0.45**
Tile 2:	Dry:	**0.81**	**0.95**
	Wet:	**0.44**	**0.45**
Tile 3:	Dry:	**0.79**	**0.88**
	Wet:	**0.45**	**0.45**

The average static coefficient of friction of twelve (12) pulls was as follows:

Dry:	**0.80**	**0.91**
Wet:	**0.45**	**0.45**

Katelyn Simpson
Laboratory Manager

7/16/10
Date

DCOF Surface Assessment

Surface Material
URB15R6R 12x12

One (1) piece 12x12 of the referenced material were received in good condition. Tiles were cleaned and rinsed with Traction Wash mixed at 1:32 prior to testing.

Scope of work

To test surface according to ANSI 137.1 2012 DCOF. Testing performed using a BOT 3000 from Regan Scientific after being calibrated as per manufacturer's specifications. Testing protocol was in accordance with ANSI 137.1 2012 DCOF utilizing BOT 1160

Test Results

Each tile is tested N/S/E/W and averaged.

"As-Is" Test results

	Test Condition		DCOF Avg.
Tile 1	Wet	DCOF	**.58****
		Avg.	**.58****

**ANSI 137.1 DCOF Acutest is a new standard adopted by TCNA in 2012. The DCOF Acutest has a minimum threshold value to be considered slip resistant, of >.42 DCOF for interior tile surfaces that will be walked on when wet. This new standard should be considered rather than any previous referenced "guidelines" of ADA .60 or OSHA .50 (Static COF). The only guideline currently published by ADA is that surfaces should be firm, stable and slip resistant.

Disclaimer: Results may vary from tile to tile. Final user of surface material should verify that surface friction meets room function characteristics.

Ongoing care and maintenance

Coefficient of Friction can reduce over time due to wear and from a build up of soap and or dirt residue. We recommend the use of "free rinsing" cleaner that does not impart residue. When available, surfaces should always be extracted rather than just traditionally mopped.

Surface Solutions

Company Profile:

Surface Solutions, LLC

Industry: Surface Engineering
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5/27/2014

DCOF Surface Assessment

Surface Material
URB15M13R 16x16

One (1) piece 16x16 of the referenced material were received in good condition. Tiles were cleaned and rinsed with Traction Wash mixed at 1:32 prior to testing.

Scope of work

To test surface according to ANSI 137.1 2012 DCOF. Testing performed using a BOT 3000 from Regan Scientific after being calibrated as per manufacturer's specifications. Testing protocol was in accordance with ANSI 137.1 2012 DCOF utilizing BOT 1160

Test Results

Each tile is tested N/S/E/W and averaged.

"As-Is" Test results

	Test Condition		DCOF Avg.
Tile 1	Wet	DCOF	**.67****
		Avg.	**.67****

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Disclaimer: Results may vary from tile to tile. Final user of surface material should verify that surface friction meets room function characteristics.

Ongoing care and maintenance

Coefficient of Friction can reduce over time due to wear and from a build up of soap and or dirt residue. We recommend the use of "free rinsing" cleaner that does not impart residue. When available, surfaces should always be extracted rather than just traditionally mopped.

Surface Solutions

Company Profile:

Surface Solutions, LLC

Industry: Surface Engineering
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COF Testing
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5/27/2014

DCOF Surface Assessment

Surface Material
URB011M19R

Three (3) pieces of the referenced material were received in good condition. 12x12 pieces were utilized for testing purposes. Tiles were cleaned and rinsed with Traction Wash mixed at 1:32 prior to testing..

Scope of work

To test surface according to ANSI 137.1 2012 DCOF. Testing performed using a BOT 3000 from Regan Scientific after being calibrated as per manufacturer's specifications. Testing protocol was in accordance with ANSI 137.1 2012 DCOF utilizing BOT 1183.

Test Results

Each tile is tested N/S/E/W and averaged.

"As-Is" Test results

	Test Condition			DCOF Avg.
Tile 1	Wet	DCOF		.565
Tile 2	Wet	DCOF		.582
Tile 3	Wet	DCOF		.60
			Avg.	**.582****

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Disclaimer: Results may vary from tile to tile.

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12/13/2012

Ongoing care and maintenance

Coefficient of Friction can reduce over time due to wear and from a build up of soap and or dirt residue. We recommend the use of "free rinsing" cleaner that does not impart residue. When available, surfaces should always be extracted rather than just traditionally mopped.

DCOF Surface Assessment

Surface Material
URB015M19R

Three (3) pieces of the referenced material were received in good condition. 12x12 pieces were utilized for testing purposes. Tiles were cleaned and rinsed with Traction Wash mixed at 1:32 prior to testing..

Scope of work

To test surface according to ANSI 137.1 2012 DCOF. Testing performed using a BOT 3000 from Regan Scientific after being calibrated as per manufacturer's specifications. Testing protocol was in accordance with ANSI 137.1 2012 DCOF utilizing BOT 1183.

Test Results

Each tile is tested N/S/E/W and averaged.

"As-Is" Test results

	Test Condition			DCOF Avg.
Tile 1	Wet	DCOF		.682
Tile 2	Wet	DCOF		.69
Tile 3	Wet	DCOF		.72
			Avg.	**.697****

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12/13/2012

DCOF Surface Assessment

Surface Material
URB015P19R

Three (3) pieces of the referenced material were received in good condition. 12x12 pieces were utilized for testing purposes. Tiles were cleaned and rinsed with Traction Wash mixed at 1:32 prior to testing..

Scope of work

To test surface according to ANSI 137.1 2012 DCOF. Testing performed using a BOT 3000 from Regan Scientific after being calibrated as per manufacturer's specifications. Testing protocol was in accordance with ANSI 137.1 2012 DCOF utilizing BOT 1183.

Test Results

Each tile is tested N/S/E/W and averaged.

"As-Is" Test results

	Test Condition		DCOF Avg.
Tile 1	Wet	DCOF	.352
Tile 2	Wet	DCOF	.36
Tile 3	Wet	DCOF	.342
		Avg.	**.351**

**ANSI 137.1 DCOF Acutest is a new standard adopted by TCNA in 2012. The DCOF Acutest has a minimum threshold value to be considered slip resistant, of >.42 DCOF for interior tile surfaces that will be walked on when wet. This new standard should be considered rather than any previous referenced "guidelines" of ADA .60 or OSHA .50 (Static COF). The only guideline currently published by ADA is that surfaces should be firm, stable and slip resistant.

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12/13/2012

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