

SEDE

Via Martelli, 26 - 40138 Bologna
Tel. 051 534015 - Fax. 051 530085

CERTI.CER.

LABORATORIO DI ZONA

Via Valle d'Aosta, 1 - 41049 Sassuolo
Tel. 0536 802154

Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4467/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 30 x 30 x 0,8 cm marked "Articolo ANTICA".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- | | |
|-------------------------------------|------------|
| <input type="checkbox"/> | Smooth |
| <input checked="" type="checkbox"/> | Profiled |
| <input type="checkbox"/> | Structured |
| <input type="checkbox"/> | Rough |

RESULTS

Average total acceptance angle:

15°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R10

Movement area evaluation group:

Prof. Eng. Giorgio Timellino
Director



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concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 30 x 30 x 0,8 cm marked "Articolo ANTICA".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- | | |
|-------------------------------------|------------|
| <input type="checkbox"/> | Smooth |
| <input checked="" type="checkbox"/> | Profiled |
| <input type="checkbox"/> | Structured |
| <input type="checkbox"/> | Rough |

RESULTS

Average total acceptance angle:

15°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R10

Movement area evaluation group:

Prof. Eng. Giorgio Timellino
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4474/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo BOLERO".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	13°
Application range:	A

Prof. Eng. Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4473/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo BOLERO".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- Smooth
 Profiled
 Structured
 Rough

RESULTS

Average total acceptance angle:

9°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R9

Movement area evaluation group:

Prof. Eng. Giorgio Timellini
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4470/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 30 x 30 x 0,8 cm marked "Articolo COUNTRY".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	17°
Application range:	A

Prof. Eng. Giorgio Timellini
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4469/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 30 x 30 x 0,8 cm marked "Articolo COUNTRY".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- | | |
|-------------------------------------|------------|
| <input type="checkbox"/> | Smooth |
| <input checked="" type="checkbox"/> | Profiled |
| <input type="checkbox"/> | Structured |
| <input type="checkbox"/> | Rough |

RESULTS

Average total acceptance angle:

7°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R9

Movement area evaluation group:

Prof. Eng. Giorgio Timellini
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4475/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by: ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA

On (date): 06/06/12

For the sample marked: Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo ENERGY".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	19°
Application range:	A+B

Prof. Eng. **Giorgio Timellini**
Director

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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4472/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo HARD".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	13°
Application range:	A

Prof. Eng. Giorgio Timellini
Director

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Bologna, 11/06/12

TEST REPORT N° 4471/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo HARD".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- Smooth
- Profiled
- Structured
- Rough

RESULTS

Average total acceptance angle:

14°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R10

Movement area evaluation group:

Prof. Eng. Giorgio Timellini
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4478/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Unglazed ceramic tiles 60 x 60 x 0,9 cm marked "Articolo JAZZ".



DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	19°
Application range:	A+B

Prof. Eng. 
Director 



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4476/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo MARMI".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	16°
Application range:	A

Prof. Eng. Giorgio Tinellini
Director



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Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4480/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo STRONG".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	38°
Application range:	A+B+C

Prof. Eng. Giorgio Timellini
Director

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Tel. 0536 802154

Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4479/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 1,1 cm marked "Articolo STRONG".

**DIN 51130 (06/2004) – Determination of the anti – slip properties –
Workrooms and fields of activities with raised slip danger, walking
method – ramp test**

Surface characteristics

- Smooth
- Profiled
- Structured
- Rough

RESULTS

Average total acceptance angle:

28°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R12

Movement area evaluation group:

Prof. Eng. Giorgio Timellini
Director



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(G.U. 6-7-1983 n. 183)

Membro ASTM
American Society for
Testing and Materials.

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LABORATORIO DI ZONA

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Tel. 0536 802154

Part. IVA 0094778-0375

Bologna, 11/06/12

TEST REPORT N° 4477/12

concerning ceramic tiles
according to EN 14411 (ISO 13006)

Requested by:	ESTIMA CERAMICA – BETONNAYA UL., 1 – NOGINSK 142410 RUSSIA
On (date):	06/06/12
For the sample marked:	Glazed ceramic tiles 60 x 60 x 0,9 cm marked "Articolo TASTE".

DIN 51097 – Slip resistance

WORKING CONDITIONS:

Size of the tested surface (m)	0,50 x 1,20
Joint width (mm):	2
Grout:	Cement mortar
Surface orientation	None

RESULTS

Average slip angle:	20°
Application range:	A+B

Prof. Eng. Giorgio Timellini
Director



The results reported relate only to the samples tested. No responsibility is taken for the accuracy of the sampling unless it is done under our own supervision. The reproduction of this test report is only authorized in the form of a complete photographic facsimile. Our written approval is necessary for any partial reproduction. This test report consists of 1 pages, this cover included.



Consorzio universitario per la gestione del
«Centro di ricerca e sperimentazione per
l'industria ceramica».
D.P.R. 10-4-1978 n. 806
(G.U. 20-12-1978 n. 353)

Laboratorio autorizzato ad effettuare il
servizio di rilevamento dell'inquinamento
atmosferico.
Decreto MINISTERO SANITÀ 10-8-1974
(G.U. 14-9-1974 n. 240)

Laboratorio iscritto nell'albo dei «Laboratori Esterni
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Decreto MINISTERO RICERCA SCIENTIFICA 6-6-1983
(G.U. 6-7-1983 n. 183)

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