

Requested by:	ESTIMA (NKSI)	
For the sample:	Glazed ceramic tiles 19,4 x 120 x 1,1 cm, marked "Series ARTWOOD".	
On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16
Test date	From: 03/05/16	To: 03/05/16

DIN 51097 (11/1992) – Determination of anti – slip properties.

Wet-loaded barefoot areas – Walking method – Ramp test

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:	13,0°
Application range:	A

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16
Test date	From: 03/05/16	To: 03/05/16

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:

6,2°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R9

Movement area evaluation group:

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Requested by:	ESTIMA (NKSI)		
For the sample:	Glazed ceramic tiles 60 x 120 x 1,1 cm, marked "Series CREATIVE".		
On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16	
Test date		From: 03/05/16	To: 03/05/16

DIN 51097 (11/1992) – Determination of anti – slip properties.
Wet-loaded barefoot areas – Walking method – Ramp test

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:	24,1°
Application range:	A+B+C

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16	
Test date		From: 03/05/16	To: 03/05/16

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:

16,0°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R10

Movement area evaluation group:

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Requested by:	ESTIMA (NKSI)	
For the sample:	Glazed ceramic tiles 60 x 120 x 1,1 cm, marked "Series LIMESTONE".	
On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16
Test date	From: 03/05/16	To: 03/05/16

DIN 51097 (11/1992) – Determination of anti – slip properties.

Wet-loaded barefoot areas – Walking method – Ramp test

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:	16,2°
Application range:	A

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Test date	From: 03/05/16	To: 03/05/16

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:

8,0°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R9

Movement area evaluation group:

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Requested by:	ESTIMA (NKSI)		
For the sample:	Glazed ceramic tiles 60 x 120 x 1,1 cm, marked "Series MIXSTONE".		
On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16	
Test date		From: 03/05/16	To: 03/05/16

DIN 51097 (11/1992) – Determination of anti – slip properties.

Wet-loaded barefoot areas – Walking method – Ramp test

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:	24,3°
Application range:	A+B+C

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Test date		From: 03/05/16	To: 03/05/16

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:

12,0°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181 – 10/2003)

Group of anti – slip properties:

R10

Movement area evaluation group:

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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Requested by:	ESTIMA (NKSI)		
For the sample:	Glazed ceramic tiles 60 x 120 x 1,1 cm, marked "Series TRAFFIC".		
On (date):	25/03/16	Date of receipt in laboratory (sample delivered by the client): 12/04/16	
Test date		From: 03/05/16	To: 03/05/16

DIN 51097 (11/1992) – Determination of anti – slip properties.

Wet-loaded barefoot areas – Walking method – Ramp test

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:	15,2°
Application range:	A

Eng. Giordana Carani
Technical approval



Prof. Maria Chiara Bignozzi
Director



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CENTRO DI RICERCA E SPERIMENTAZIONE
PER L'INDUSTRIA CERAMICA

Bologna, 29/09/2016

OOO NKSI/ESTIMA
Betonnaya n. 1, Noghinsk
142410 MOSCOW Region
RUSSIA

TEST LABORATORY

TEST REPORT No. 4976/16

concerning ceramic tiles according to EN 14411 : 2012

Requested by:	OOO NKSI/ESTIMA Betonnaya n. 1, Noghinsk 142410 MOSCOW Region RUSSIA
On (date):	21/06/16
For the sample marked:	"TF-01".

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.

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This test report consists of 3 pages this cover included.



CENTRO CERAMICO

Test Report No. 4976/16

Date 29/09/2016

Page 2 of 3

Description of the sample: Glazed ceramic tiles 60x120x1.1 cm marked "TF-01".	
Manufacturer:	-----
Sampling details	
- Where:	-----
- Date:	-----
- By whom:	CUSTOMER
- How (methods):	-----
Date of receipt in laboratory: 28/06/16	

TESTS PERFORMED :

			Date of starting	Date of ending
<input checked="" type="checkbox"/>	DIN 51130 (06/2004)	Determination of the anti - slip properties – Workrooms and fields of activities with raised slip danger, walking method – ramp test	29/09/16	29/09/16



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

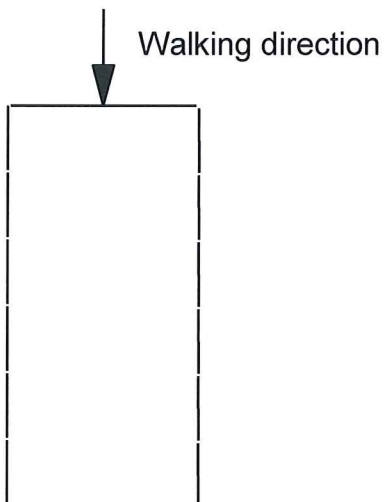
Profiled

Structured

Rough

OPERATIVE CONDITIONS

Fixing scheme



RESULTS

Average total acceptance angle:

11.9°

Movement area (cm³/dm²):

CLASSIFICATION (BGR 181- 10/2003)

Group of anti - slip properties:

R10

Movement area evaluation group:

Pietro Bruzzi
Technical verification



Prof. Maria Chiara Bignozzi

Director