

**MODENA CENTRO PROVE s.r.l.**

Sede legale e Laboratori: 41123 Modena (Italy) - Via Sallustio, 78
Tel. 059 822417 r.a. - Fax 0598635115 - e-mail : info@modenacentroprove.it - www.modenacentroprove.com
C.C.I.A.A. Modena n. 228587 - Tribunale di Modena n° 2231 - C.F. e P. IVA n. 01592020364

MECCANICA

ECOLOGIA

CERAMICA

AUTOMOTIVE

Modena, 11/01/23

To **CERAMICHE ATLAS CONCORDE
SPA - SPEZZANO**
VIA CANALETTO 141 - FRAZ. SPEZZANO
41042 FIORANO MODENESE MO

Attn. **DR. GILIOI ANDREA**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
Ceramic tiles	SERIE MARVEL X 60X120 SP 20mm	Our withdrawal of samples	19/12/2022

Here attached, you will receive the Test Report of Serial No. **20228056/n**, which shows the results of tests required.

MODENA CENTRO PROVE

MODENA CENTRO PROVE

Director
Sant'Unione dr. Giuseppe



TEST REPORT: 20228056/1

Modena, 11/01/23

CUSTOMER	CERAMICHE ATLAS CONCORDE SPA - SPEZZANO - - VIA CANALETTO 141 - FRAZ. SPEZZANO - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	Ceramic tiles;
Denomination	SERIE MARVEL X 60X120 SP 20mm;
Date of sample reception	19/12/2022;
Date of sample acceptance	19/12/2022;
Kind of test executed	Determination of slip resistance of pedestrian surfaces – Methods of evaluation - Barefoot ramp test
Referring standards	DIN EN 16165:2021 Annex A ⁽¹⁾
Shifting from standards	No one
Equipment	Torsion free platform cod. MCP C150
Subcontracted phases	No one
Sampling made by	Customer

⁽¹⁾ Supersedes DIN 51097:1992

The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.

The sample identification data were provided by the customer. Further additional information provided by the Customer will be reported in the Test Report with symbol #. If the information provided by the customer influences the validity of the results, MCP declines all responsibility.

Any changes / additions made to the Test Report after its first issue will be identified by underlining the text.

The Customer undertakes to reproduce this document in its entirety. Any form of partial reproduction is prohibited.

The storage times of the samples are indicated on the offer or contract to which this Test Report refers.

Examiner p.i. Bortolai Alberto	Examiner p.i. Nasseti Luca	MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto	MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe
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**DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES
METHODS OF EVALUATION - BAREFOOT RAMP TEST**

Beginning date : 27/12/2022

Analysis ending date : 28/12/2022

RESULTS

Surface structure: structured
Ramp test value α_{barefoot} ⁽²⁾: 26
Slip resistance class: C

⁽²⁾ rounded to the nearest 1 degree

Assessment classes (National Annex DIN EN 16165:2021 - NA - § NA.1)

Test result α_{barefoot}	Slip resistance class
$12^\circ \leq \alpha_{\text{barefoot}} < 18^\circ$	A
$18^\circ \leq \alpha_{\text{barefoot}} < 24^\circ$	B
$\alpha_{\text{barefoot}} \geq 24^\circ$	C

<p>Examiner p.i. Bortolai Alberto</p>	<p>Examiner p.i. Nasseti Luca</p>	<p>MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe</p>
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Modena, 11/01/23

To **CERAMICHE ATLAS CONCORDE
SPA - SPEZZANO**
VIA CANALETTO 141 - FRAZ. SPEZZANO
41042 FIORANO MODENESE MO

Attn. **DR. GILIOI ANDREA**

MATERIAL and/or SAMPLE to be tested	Denomination of the Sample	Client Reference – Your delivery	date
Ceramic tiles	SERIE MARVEL X 60X120 SP 20mm	Our withdrawal of samples	19/12/2022

Here attached, you will receive the Test Report of Serial No. **20228059/n**, which shows the results of tests required.

MODENA CENTRO PROVE

MODENA CENTRO PROVE

Director
Sant'Unione dr. Giuseppe



TEST REPORT: 20228059/1

Modena, 11/01/23

CUSTOMER	CERAMICHE ATLAS CONCORDE SPA - SPEZZANO - - VIA CANALETTO 141 - FRAZ. SPEZZANO - 41042 - FIORANO MODENESE - MO
MATERIAL and/o SAMPLE to be tested	Ceramic tiles;
Denomination	SERIE MARVEL X 60X120 SP 20mm;
Date of sample reception	19/12/2022;
Date of sample acceptance	19/12/2022;
Kind of test executed	Determination of slip resistance of pedestrian surfaces – Methods of evaluation - Shod ramp test
Referring standards	DIN EN 16165:2021 Annex B ⁽¹⁾
Shifting from standards	No one
Equipment	Torsion free platform cod. MCP C150
Subcontracted phases	No one
Sampling made by	Customer

⁽¹⁾ Supersedes DIN 51130:2014

The test results reported in this Test Report refer only to the sample sampled by our staff and / or given by the Customer as received.

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LAB N°1018L

Membro degli Accordi di Mutuo Riconoscimento EA, IAF e ILAC

Signatory of EA, IAF and ILAC Mutual Recognition Agreements

**DETERMINATION OF SLIP RESISTANCE OF PEDESTRIAN SURFACES
METHODS OF EVALUATION - SHOD RAMP TEST**

Beginning date : 27/12/2022

Analysis ending date : 28/12/2022

RESULTS

Surface structure: structured
Ramp test value $\alpha_{shod}^{(2)}$: 26
Slip resistance class: R11

⁽²⁾ rounded to the nearest 1 degree

Assessment classes (National Annex DIN EN 16165:2021 - NA - § NA.2)

Test result α_{shod}	Slip resistance class
$6^\circ \leq \alpha_{shod} < 10^\circ$	R 9
$10^\circ \leq \alpha_{shod} < 19^\circ$	R 10
$19^\circ \leq \alpha_{shod} < 27^\circ$	R 11
$27^\circ \leq \alpha_{shod} < 35^\circ$	R 12
$\alpha_{shod} \geq 35^\circ$	R 13

<p>Examiner p.i. Bortolai Alberto</p>	<p>Examiner p.i. Nasseti Luca</p>	<p>MODENA CENTRO PROVE Ceramic Dept. Responsible P.I. De Pasquale Roberto</p>	<p>MODENA CENTRO PROVE Director Sant'Unione dr. Giuseppe</p>
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