



**TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.**

**Technical and Test Institute for Construction Prague**

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán / Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body. Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

**Branch 0300 – Pilsen**

# CERTIFICATE

**No. 030 – 050226**

## About the qualities of a product

**Certified quality:** SLIPPERINESS according to the following test procedures:

**DIN 51130** Testing of floor coverings determination of anti – slip properties; workrooms and fields of activities with raised slip langer, walking method – ramp test

**EN 1339** Concrete paving flags – Requirements and test methods

**Product:** Concrete tiles monolayer tiles Granex 400/400/22 mm, relief surface fine stone, double-layer tiles Mramorit 400/400/38 mm, relief surface fine stone, monolayer tiles Granex 400/400/22 mm, relief surface slate, monolayer tiles Granex 600/400/27 mm, relief surface fine stone

**Producer:** Top Teramo Vápenná s.r.o., Vápenná 445, 79064 Vápenná

**Order:** Z 030140220

**Achieved values:**

testing samples	Critical angle of slip classification according DIN 51130 (shoes)
Granex 400/400/22 mm Granex 044	23,4° R 11
Granex 600/400/27 mm Granex XL044	20,3° R 11
Granex 400/400/22 mm Granex 070	22,1° R 11

Based on the results of the test pursuant to DIN 51130, the tested samples of concrete tiles monolayer tiles Granex 400/400/22 mm, relief surface fine stone, double-layer tiles Mramorit 400/400/38 mm, relief surface fine stone, monolayer tiles Granex 400/400/22 mm, relief surface slate, monolayer tiles Granex 600/400/27 mm, relief surface fine stone declared according ČSN EN 1339 produced in the Top Teramo Vápenná classified in group R 11 (e.g. in manufacturing plants, kitchens up to 100 lunches per day, school canteens, shops, airport halls, car services etc.), in class R10 (e.g. for paving in warehouses, small kitchens, sanitary facilities, cafes, tea shops etc.), in class R9 (e.g. for paving in space for breaks, customer spaces, massage rooms, hairdressing salons, rooms for mangles, for ironing, classrooms etc.) and together correspond to the requirements in wet conditions stated in Article 4.17 ČSN 74 4505 Floors – Common regulations in accordance with the Decree on Technical Requirements for products No. 268/2009 Coll. §21 (2), (3) for all residential floor and residential rooms, which must comply with slip angle min. 6°, simultaneously meet the requirements for the floor wet conditions parts of buildings for public use, including arcades and covered passages which must comply with slip angle min. 10° (determination of slipperiness – walking methods – ramp test (shoes method)).

testing samples	Deflection of pendulum (wet surface) EN 1339
Granex 400/400/22 mm Granex 044	43

The tested samples of monolayer tiles Granex 400/400/22 mm, relief surface fine stone, double-layer tiles Mramorit 400/400/38 mm, relief surface fine stone monolayer tiles Granex 400/400/22 mm, relief surface slate, monolayer tiles Granex 600/400/27 mm, relief surface fine stone correspond to the requirements in wet conditions stated in Article 4.17 ČSN 74 4505 Floors – Common regulations in accordance with the Decree on Technical Requirements for products No. 268/2009 Coll. §21 (2), (3) for all residential floor and residential rooms, which must comply with value of 30 to swing the pendulum method, simultaneously meet the requirements for the floor wet conditions parts of buildings for public use, including arcades and covered passages which must comply with value of 40 for swing the pendulum method.

The certificate is issued on the basis of the results of the tests stated in report no. 030–050115 from 30<sup>th</sup> July 2014

Number of pages of certificate: 1

Certificate validity: till 31<sup>st</sup> July 2017

The certificate can be cancelled upon finding non-adherence to the certified parameters of product qualities.



Pilsen 30<sup>th</sup> July 2014

Stamp of TZÚS – branch Pilsen

Ing. Alexander Trinner  
Branch Director

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