

Przedsiębiorstwo Projektowo-Wdrożeniowe  
"BIPROSKAL" R.Lipiński s.j. Laboratorium  
Badania Skał i Kruszyw

53-332 Wrocław, ul.Powstańców Śląskich 5  
tel.71 361-06-91(5), fax.71 367-28-32

STATEMENT ON THE QUALITY OF ROCK MATERIAL  
according to PN-EN 1469;2005 „Natural stone products.Slabs  
for cladding. Requirements"

Date 15.11.2013

Orderer: **GNEJSY-PREMIUM.EU**  
**Arnold Straus**  
**57-230 Kamieniec Ząbkowicki Doboszowice 171**

Place of sample collection: **From the finished product  
storehouse in Gneiss Mine  
Doboszowice I**

Rock type: **gneiss**

Physical-chemical features:

- |  |                              |
|--|------------------------------|
| 1. Compressive strength in air-dry condition according to PN-EN 1926         | <b>160 MPa</b>               |
| 2. Compressive strength after frost resistance according to PN-EN 1926       | <b>125 MPa</b>               |
| 3. Flexural strength under concentrated load according to PN-EN 12372        | <b>9,8 MPa</b>               |
| 4. Resistance to freezing /defrosting according to PN-EN 12371               | <b>0,04 %</b>                |
| 5. Absorbability in atmospheric pressure conditions according to PN-EN 13755 | <b>0,36 %</b>                |
| 6. Abrasion resistance according to PN-EN 14157                              | <b>5890 mm</b>               |
| 7. Thermal shock resistance according to PN-EN 14066                         | <b>resistant</b>             |
| 8. Specific gravity density according to PN-EN 1936                          | <b>2.64 Mg/m<sup>3</sup></b> |
| 9. Shortened petrographic description according to PN-EN 932-3               |                              |

Gneiss - metamorphic rock. Colour - grey, light brown, silver, white.

Crystalline structure - fine, medium-or coarse grained.

Mineral composition - quartz, aluminosilicates of: sodium, potassium, calcium,  
iron, magnesium. Plagioclases, muscovite, biotite, garnet.

No weathering changes were observed.

"Biproskał"  
Laboratorium Badania Skał i Kruszyw

inż. Krzysztof Szczudło

CZŁONEK ZARZĄDU  
mgr inż. Tadeusz Chojnacki