

**INSTITUTE OF CERAMICS AND BUILDING MATERIALS  
DIVISION OF GLASS AND BUILDING MATERIALS IN CRACOW  
DEPARTMENT OF GLASS TECHNOLOGY**

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**TESTING CERTIFICATE No. BW/1554/10**

Subject of testing *Insulating glass units dual chamber construction  
3ClimaGuard Premium/16/3 Planilux/16/3ClimaGuard Premium  
with Argon delivered by M&S Pomorska Fabryka Okien*

Principal orderer *M&S Pomorska Fabryka Okien Sp. z o.o.  
ul. Grottgera 15, 76 - 200 Słupsk*

Type of testing *Determination of thermal transmittance coefficient  
"U" according to the standard PN-EN 674; 1999  
"Glass in building. Determination of thermal  
transmittance (U value). Guarded hot plate method"*

Judgement *Thermal transmittance „U“ of tested insulating glass  
units construction 3ClimaGuard Premium/16/3Planilux/16/  
3ClimaGuard Premium with Argon in interglass space  
amount to  $U=0,5 \text{ W}/(\text{m}^2 \cdot \text{K})$ .*

**The basic of judgement: Test Report No. 148.FW.10.AK z 21.12.2010**

Responsible person  
for the test

KIEROWNIK  
Zakładu Technologii Szkła  
mgr inż. Sebastian Sacha

Z-CA DYREKTORA ODDZIAŁU

dr inż. Paweł Pichniarczyk

Cracow, date **21.12.2010**

**Director**

*This certificate is valid to: 21.12.2012*