

dr hab. inż. arch. Leszek Maluga,  
Professor of the University  
Wydział Architektury Politechniki Wrocławskiej

January 15, 2019 Wrocław

### **Assessment of doctoral dissertation**

written by mgr inż. arch. Joanna Pętkowska (MSc Eng. Arch.)  
entitled: „Freehand Drawing in the Architectural and Urban Design Process”  
written under the supervision of:  
Supervisor: Prof. zw. dr hab. inż. arch. Sławomir Gzell,  
Warsaw University of Technology (Politechnika Warszawska)  
Co-supervisor: Prof. Dr.-Ing. Angela Million, Technische Universität Berlin

The submitted dissertation may be accepted as a worthy doctoral performance.  
I suggest the following qualification:

**VERY GOOD**

Substantiation:

1. The dissertation is an original scientific study and as such it brings new values to science.
2. A wide body of information contained in the theoretical part and conclusions resulting from the description and analysis of the charrette workshop in Chicago allow us to see the great cognitive and educational value of work.
3. The research was carried out correctly from the point of view of scientific research methodology.
4. The content of the dissertation indicates that the author has extensive theoretical knowledge and possesses the ability to conduct scientific research.
5. The doctoral dissertation is an interesting, valuable, well-written and composed work.

Leszek Maluga