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Poznan 04.07.2008

RESEARCH REPORT

NO. U 128 BDZ/2008

Testing slipperiness of KRONOPOL floor panels

Employer:

KRONOPOL Sp. Z o.o.
ul. Serbska 56
68-200 Żary

1. Research subject:

The research subject were laminated floor coverings, delivered by the Employer on 2008-05-27, sold under the trade name of **OLD STYLE laminated floors**. The manufacturer of the tested laminated floor coverings is the Employer. According to the arrangements, one manufacturer package, consisting of 8 pieces of floor elements of nominal dimensions: 1380x193x8mm, were delivered.

2. Aim, scope, and methods of researching:

According to the content of the Order, the aim of the work was to test slipperiness of laminated floor covering, by means of measuring dynamic friction factor, using method in accordance with the norm **PN-EN 13893:2004** “*Elastic, laminated, and textile floor coverings.. Measurement of dynamic friction factor on dry floor surfaces*”.

3. Research results

The research was performer after initial air conditioning of the elements in normal climate (23±2)°C i (50±5)%. The slipper moped on dry and clean surface of the research subject with constant speer of 250mm/m, on a distance of 40 cm. The measurements of vertical force were performed using electronic dynamometer manufactured by ANDILOG with resolution of 0.1N, along the elements, and crosswise of five times placed sets of five elements.

The research results are presented in tables 1 and 2.

Table 1

Results of slipperiness tests along the laminated floor covering called *Old Style laminated floors*, manufactured by KRONOPOL company.

Number of element	Horizontal force F				Total vertical load M	Dynamic friction factor μ
	Number of measurement			average		
	1	2	3			
	[N]					
1	72	59	64	65	99	0,66
2	61	60	53	58	99	0,59
3	65	58	58	60	99	0,61
4	61	61	61	61	99	0,62
5	61	58	60	60	99	0,60
					average	0,61

Results of slipperiness tests crosswise the laminated floor covering called *Old Style laminated floors*, manufactured by KRONOPOL company

Number of set of elements	Horizontal F			F average	Total vertical load M	Dynamic friction factor μ
	Number of measurement					
	1	2	3			
	[N]					
1	62	67	65	65	99	0,65
2	71	74	72	72	99	0,73
3	65	65	64	65	99	0,65
4	66	65	66	66	99	0,66
5	72	66	65	68	99	0,68
					average	0,68

4 Commentary on research results

The average value of dynamic friction factor μ along dry laminated floor coverings *OLD Style*, manufactured by KRONOPOL company, tested in accordance with the norm *EN 13893*, amounted to 0,61 and crosswise – 0,68. The values in both directions meet the requirements in respect of resistance to slip, defined in the norm *PN-EN 14041:2006* “Elastic, textile and laminated floor coverings. Fundamental values” ($\mu \geq 0.3$).

CONTRACTORS

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