

1. Transaltion File named: Wzory 01PU podeszwa drewno PU

The Institute of leather industry

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F.H.P. ŚWIAT DZIECKA

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26-600 RADOM

Your sign: -

Your date: 21.05.2015r.

Our sign: LO-4081-62/15

Lodz: 02.07.2015r.

Research Report

number of pages: 2
number of copies: 2

Principal:

PROMEDYK F.H.P. ŚWIAT DZIECKA J.Kowalski, Radom

Date of receiving samples for research: 05.06.2015

Date of service delivery: 02.07.2015r.

Type and number of samples for research, samples names:

a series of footwear on wooden soles/PU that consist of patterns: 01APU, 01ABPU, 01SPU, 01BKPU, 01PU, 01BPU:

- sample 01SPU – 3 pairs, named in laboratory as 82/2015/1

- sample 01BPU – 3 pairs, named in laboratory as 82/2015/2

Way of gathering samples:

delivered by the principal

Type of commissioned research:

coefficient of friction of the bottoms (gait test)

Research findings:

enclosed in table 1, page 2

Research findings a series of footwear on wooden soles consisting of patterns: 01, 01B, 01AB, 01B, KL1, 01S

	Research Type	Unit of measure	Result	Research method
1.	coefficient of friction of the bottoms (gait test) - at the approach - when descending	-	0,17 0,17	PB 11/ NO issued. II z 03.02.2023
*the test was carried out on a steel substrate moistened with glycerine, footwear was tested by 3 people with different body weights				
* test method equivalent to the technical report				

Notice: test method equivalent to the technical report.

2. Transaltion File named: Wzory 01 podeszwa drewno

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Principal:

PROMEDYK F.H.P. ŚWIAT DZIECKA J.Kowalski, Radom

Date of receiving samples for research: 05.06.2015

Date of service delivery: 02.07.2015r.

Type and number of samples for research, samples names:

a series of footwear on wooden soles that consist of patterns: 01, 01B, 01A, 01AB, 01B, KL1, 01S:
- sample 01A – 3 pairs, named in laboratory as 81/2015/1

Way of gathering samples:

delivered by the principal

Type of commissioned research:

coefficient of friction of the bottoms (gait test)

Research findings:

enclosed in table 1, page 2

Research findings a series of footwear on wooden soles consisting of patterns: 01, 01B, 01AB, 01B, KL1, 01S

	Research Type	Unit of measure	Result	Research method
1.	coefficient of friction of the bottoms (gait test) - at the approach - when descending	-	0,17 0,17	PB 11/ NO issued. II z 03.02.2003
<p>*the test was carried out on a steel substrate moistened with glycerine, footwear was tested by 3 people with different body weights</p> <p>* test method equivalent to the technical report</p>				

Notice: test method equivalent to the technical report.

3. Transaltion File named: Wzory 03 Męskie A06

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PROMEDYK

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Your sign: -

Your date: 29.04.2015r.

Our sign: LO-4081-54/15

Lodz: 02.07.2015r.

Research Report

number of pages: 2
number of copies: 2

Principal:

PROMEDYK F.H.P. ŚWIAT DZIECKA J.Kowalski, Radom

Date of receiving samples for research: 05.06.2015

Date of service delivery: 02.07.2015r.

Type and number of samples for research, samples names:

a series of male footwear on soles A06 that consist of patterns: 03ABM, 03A/3, 03BM, 03CBM, 03LGM, 03LM, 03M, 03/3M, 03SAM, 03SM, 03AM:

- sample 03LM – 3 pairs, (delivered 30.04.2015) named in laboratory as 66/2015/1,
- sample 03AMB – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/2,
- sample 03A – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/3,
- sample 03CBM – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/4,
- sample 03/3M – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/5,
- sample 03SAM – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/6,
- sample 03SM – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/7,
- sample 03AM – 3 pairs, (delivered 05.06.2015) named in laboratory as 66/2015/8.

Way of gathering samples:

delivered by the principal

Type of commissioned research:

specific ergonomic features, energy absorption in the heel part, sole replacement, coefficient of friction of the footwear soles (gait test), rigidity and resistance of the bottoms to bending

Research findings:

enclosed in table 1, page s 2 and 3

Research findings a series of footwear on wooden soles consisting of patterns: 01, 01B, 01AB, 01B, KL1, 01S

	Research Type	Unit of measure	Result	Research method
1.	specific ergonomic features	-	positive	PN-EN ISO 20344:2012 p. 5.1.
2.	energy absorption in the heel part	J	31,8	PN-EN ISO 20344:2012 p. 5.14
3.	Soles size Sample 03LM	mm	11,5 3,0	PN-EN ISO 20344:2012 p. 8.1.2
4.	coefficient of friction of the bottoms (gait test) Sample 03LM - at the approach - when descending Sample 03ABM - at the approach - when descending Sample 03A - at the approach - when descending Sample 03SAM - at the approach - when descending Sample 03SM - at the approach - when descending Sample 03AM - at the approach - when descending	-	 0,19 0,18 0,18 0,18 0,17 0,16 0,19 0,18 0,19 0,18 0,19 0,19	PB 11/ NO issued. II z 03.02.2003

5.	rigidity of the bottoms Sample 03LM		78	PN-EN ISO 20344:2012 p. 8.4.2
6.	resistance of the bottoms to bending (23+2) Celsius degrees Sample 03LM	Bends amount	30 000	PN-EN ISO 20344:2012 p. 8.4.2
<p>*the test was carried out on a steel substrate moistened with glycerine, footwear was tested by 3 people with different body weights</p> <p>* test method equivalent to the technical report ISO TR 11220:1993</p> <p>* tension has not been raised (increase in the voltage length 0 mm)</p>				

Notice: test method equivalent to the technical report.

4. Transaltion File named: Wzory 03 Podeszwa SDI

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Research Report

number of pages: 3
number of copies: 2

Principal:

PROMEDYK F.H.P. ŚWIAT DZIECKA J.Kowalski, Radom

Date of receiving samples for research: 30.04.2015 and 05.06.2015

Date of service delivery: 03.07.2015r.

Type and number of samples for research, samples names:

a series of footwear on soles SDI that consist of patterns: 03, 03A, 03B, 03AB, 03/3, 03/S, 03SA, 03LA, 03LG, 03B/R, 03CB, 03C:

- sample 03LA– 3 pairs, (delivered 30.04.2015) named in laboratory as 65/2015/1,
- sample 03AB – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/2,
- sample 03A – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/3,
- sample 03CB – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/4,
- sample 03/3 – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/5,
- sample 03/3A – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/6,
- sample 03S – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/7,
- sample 03SA – 3 pairs, (delivered 05.06.2015) named in laboratory as 65/2015/8.

Way of gathering samples:

delivered by the principal

Type of commissioned research:

specific ergonomic features, energy absorption in the heel part, sole size, rigidity and resistance of the bottoms to bending, coefficient of friction of the footwear soles (gait test)

Research findings:

enclosed in table 1, page s 2 and 3

Research findings a series of footwear on wooden soles consisting of patterns: 03, 03A, 03B, 03AB, 03/3, 03/S, 03SA, 03LA, 03LG, 03B/R, 03CB, 03C.

	Research Type	Unit of measure	Result	Research method
1.	specific ergonomic features Sample 03LA	-	positive	PN-EN ISO 20344:2012 p. 5.1.
2.	energy absorption in the heel part Sample 03LA	J	37,1	PN-EN ISO 20344:2012 p. 5.14
3.	Soles size Sample 03LA	mm	13,5 3,0	PN-EN ISO 20344:2012 p. 8.1.2
4.	coefficient of friction of the bottoms (gait test) Sample 03LA - at the approach - when descending Sample 03AB - at the approach - when descending Sample 03A - at the approach - when descending Sample 03CB - at the approach - when descending Sample 03/3 - at the approach - when descending Sample 03/3A - at the approach - when descending	-	 0,17 0,16 0,20 0,19 0,19 0,18 0,20 0,19 0,19 0,19 0,17 0,18	PB 11/ NO issued. II z 03.02.2003

	<p>Sample 03S - at the approach - when descending</p> <p>Sample 03SA - at the approach - when descending</p>		<p>0,19 0,19</p> <p>0,18 0,18</p>	
5.	rigidity of the bottoms Sample 03LA		78	PN-EN ISO 20344:2012 p. 8.4.1
6.	resistance of the bottoms to bending (23+2) Celsius degrees Sample 03LA	Bends amount	30 000	PN-EN ISO 20344:2012 p. 8.4.2
<p>*the test was carried out on a steel substrate moistened with glycerine, footwear was tested by 3 people with different body weights</p> <p>* test method equivalent to the technical report ISO TR 11220:1993</p> <p>* tension has not been raised (increase in the voltage length 0 mm)</p>				

Notice: test method equivalent to the technical report.

5. Transaltion File named: Wzory 03 Podeszwa SDII

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Principal:

PROMEDYK F.H.P. ŚWIAT DZIECKA J.Kowalski, Radom

Date of receiving samples for research: 30.04.2015 and 05.06.2015

Date of service delivery: 03.07.2015r.

Type and number of samples for research, samples names:

a series of footwear on soles SDII PROMEDYK that consist of patterns: 03W, 03AW, 03BW, 03ABW, 03LAW, 03/3W, 03A/3W, 03PW, 03SW, 03SAW, 03LPW:

- sample 03LAW – 3 pairs, (delivered 30.04.2015) named in laboratory as 67/2015/1,
- sample 03ABW – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/2,
- sample 03A/3W– 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/3,
- sample 03BW – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/4,
- sample 03LPW – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/5,
- sample 03/3W – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/6,
- sample 03SAW – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/7,
- sample 03SW – 3 pairs, (delivered 05.06.2015) named in laboratory as 67/2015/8.

Way of gathering samples:

delivered by the principal

Type of commissioned research:

specific ergonomic features, energy absorption in the heel part, sole size, rigidity and resistance of the bottoms to bending, coefficient of friction of the footwear soles (gait test)

Research findings:

enclosed in table 1, page s 2 and 3

Research findings a series of footwear on wooden soles consisting of patterns: 03W, 03AW, 03BW, 03ABW, 03LAW, 03/3W, 03A/3W, 03PW, 03SW, 03SAW, 03LPW:

	Research Type	Unit of measure	Result	Research method
1.	specific ergonomic features Sample 03LAW	-	positive	PN-EN ISO 20344:2012 p. 5.1.
2.	energy absorption in the heel part Sample 03LAW	J	37,1	PN-EN ISO 20344:2012 p. 5.14
3.	Soles size Sample 03LAW	mm	13,5 3,0	PN-EN ISO 20344:2012 p. 8.1.2
4.	coefficient of friction of the bottoms (gait test) Sample 03LAW - at the approach - when descending Sample 03ABW - at the approach - when descending Sample 03A/3W - at the approach - when descending Sample 03BW - at the approach - when descending Sample 03LPW - at the approach - when descending Sample 03/3W - at the approach - when descending	-	 0,20 0,19 0,18 0,18 0,18 0,17 0,18 0,17 0,18 0,17	PB 11/ NO issued. II z 03.02.2003

	Sample 03SAW - at the approach - when descending		0,19 0,19	
5.	rigidity of the bottoms Sample 03LAW		73	PN-EN ISO 20344:2012 p. 8.4.1
6.	resistance of the bottoms to bending (23+2) Celsius degrees Sample 03LAW	Bends amount	30 000	PN-EN ISO 20344:2012 p. 8.4.2
<p>*the test was carried out on a steel substrate moistened with glycerine, footwear was tested by 3 people with different body weights</p> <p>* test method equivalent to the technical report ISO TR 11220:1993</p> <p>* tension has not been raised (increase in the voltage length 0 mm)</p>				

Notice: test method equivalent to the technical report.