

TEST REPORT

16-0132IT-P

Issued on March 01st 2016

CLIENT

KATASKEVES DAPEDON LTD - BUILDING SYSTEM

PRODUCT NAME

POLYFLEX PU SYSTEM

TYPE

SYNTHETIC FLOOR

Test according to:

EN 14904:2006 Surfaces for sports areas – Indoor surfaces for multi-sport use – Specification

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The results are valid only for the submitted samples as described in this report.

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SCOPE OF THE TEST PROGRAMME

The system (sample submitted) was tested in accordance to EN 14904:2006, using the following test procedures.

DOCUMENTS OF REFERENCE

STANDARDS USED

UNI EN 14904:2006 Surfaces for sports areas. Indoor surfaces for multi-sport use. Specification

UNI EN 14808:2006 - Surfaces for sports areas. Determination of shock absorption

UNI EN 14809:2006 - Surfaces for sports areas. Determination of vertical deformation

UNI EN 12235:2013 - Surfaces for sports areas. Determination of vertical ball behaviour

UNI EN 13036-4:2011 Road and airfield surface characteristics. Test methods. Method for measurement of slip/skid resistance of a surface. The pendulum test

UNI EN 1569:2001 Surfaces for sports areas. Determination of the behaviour under a rolling load

UNI EN ISO 5470-1:2001 Rubber or plastic coated fabrics. Determination of abrasion resistance. Taber abrader.

UNI EN ISO 2813:2001 Paints and varnishes. Measurement of specular gloss of non-metallic paint films at 20°, 60° and 85°

UNI EN 1516:2001 Surfaces for sports areas – Determination of resistance to indentation

UNI EN 1517:2001 Surfaces for sports areas – Determination of resistance to impact

STORAGE TIMES

Storage of documents 4 years and samples 1 month from the issue of the report

SAMPLING

Sampling is performed by the customer

ENVIRONMENTAL CONDITIONS IN THE LABORATORY

Air temperature	Relative humidity
23°C ± 2°C	50% ± 5%

CLIENT

COMPANY
ADDRESS

KATASKEVES DAPNDON LTD - BUILDING SYSTEM
5 Koromila Str.
54645 Thessaloniki

COUNTRY

Greece

DATA ACQUISITION

DATE OF RECEIPT OF ORDER

January 27th 2016

DATE OF RECEIPT OF FIRST SAMPLE

February 02nd 2016

DATE OF RECEIPT OF LAST SAMPLE

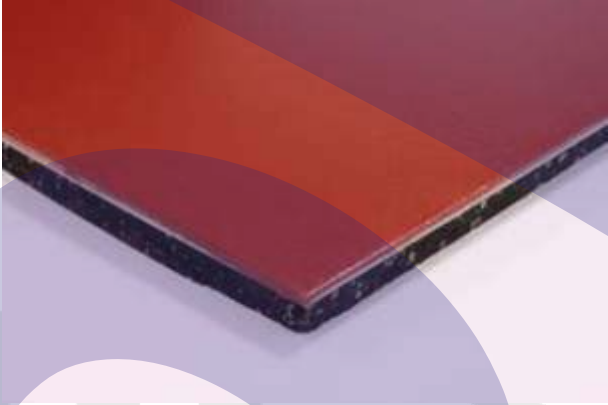
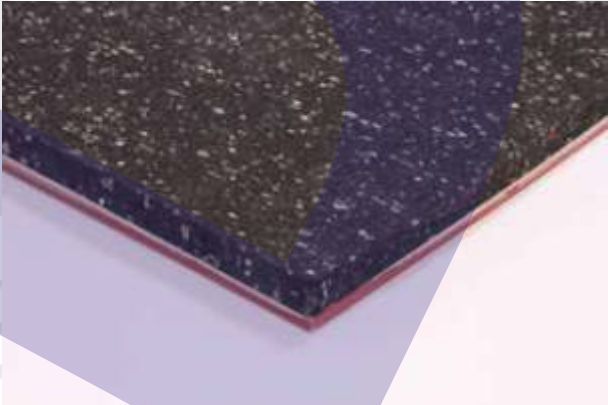
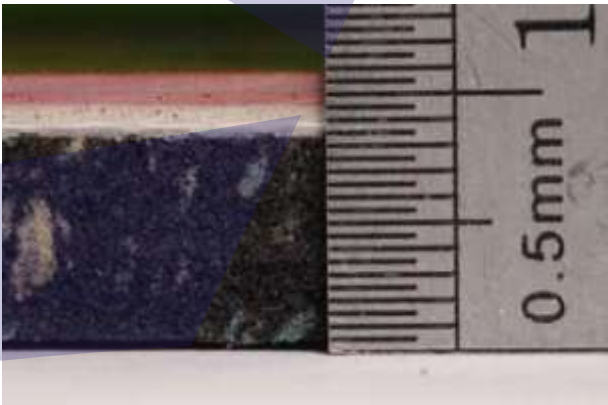
February 02nd 2016

STARTING DATE OF THE TESTS

February 12th 2016

ENDING DATE OF THE TESTS

SAMPLE IDENTIFICATION

Product name	POLYFLEX PU SYSTEM
Type	<input type="checkbox"/> Permanent wooden floor <input type="checkbox"/> Mobile wooden floor <input checked="" type="checkbox"/> Synthetic Surface <input type="checkbox"/> Other
Description (from manufacturer's data sheet)	From bottom layer: Shockpad ISOPOL 8mm, PU pore filler POLYSPORT STUCCO 950/1050 1mm (white), PU self levelling POLYSPORT PU 951/1051 1mm and protection PU protection coat POLYSPORT 952/1052. Total thickness 11mm.
Picture of the upper side	
Picture of the lower side	
Picture of the section	

TESTS RESULTS

Test	Wooden requirements	Synthetic requirements	Result	Unit	Uncertainty	Pass / Fail
Shock absorption	≥ 25% ≤ 75%		30	%	± 1.5%	Pass
Vertical deformation	≤ 5.0mm		0.9	mm	± 0.10mm	Pass
Vertical ball behaviour	≥ 90%		94	%	± 2.8%	Pass
Friction	80-110		80	-	± 5	Pass
Resistance to wear	≤ 0.08g	≤ 1g	0.16	g	± 0.002g	Pass
Resistance to impact	NA	≤ 0.5mm	In Progress	mm	± 0.01mm	
	No perceivable cracking, splitting, delamination or permanent indentation		In Progress	-	-	
Resistance to indentation	≤ 0.5mm. after 24h		0.23	mm	± 0.01mm	Pass
Specular gloss	≤ 45% lacquered surfaces	≤ 30% mat surface	40	%	± 2%	Pass
Rolling load 1500N	≤ 0.5mm under a 300mm straight edge		0.21	mm	± 0.02mm	Pass
	No perceivable damage		No damage	-	-	Pass

EQUIPMENT USED

UNI EN14808:2006 - Surfaces for sports areas. Determination of shock absorption

Device	Model	Serial number	Internal code
Datalogger	117-H1	01333640/702	STR018
Artificial athlete	Artificial athlete	-	STR016
Shock absorption spacer	NA	-	STR124
Vernier caliper	Digimatic	0133640/702	STR014
Air conditioner	BXN0-A022 E	BX-CT0022AA001H	STR127

UNI EN 14809:2006 - Surfaces for sports areas. Determination of vertical deformation

Device	Model	Serial number	Internal code
Datalogger	117-H1	01333640/702	STR018
Artificial athlete	Artificial athlete	-	STR016
Vertical deformation spacer	NA	-	STR125
Vernier caliper	Digimatic	0133640/702	STR014
Air conditioner	BXN0-A022 E	BX-CT0022AA001H	STR127

UNI EN 12235:2013 - Surfaces for sports areas. Determination of vertical ball behaviour

Device	Model	Serial number	Internal code
Laser meter	HD50	59294569	STR067
Vertical rebound structure	NA	-	STR115
Foot ball	NA	-	STR140
Air conditioner	BXN0-A022 E	BX-CT0022AA001H	STR127
Datalogger	117-H1	01333640/702	STR018

UNI EN ISO13036-4:2011 Road and airfield surface characteristics. Test methods. Method for measurement of slip/skid resistance of a surface. The pendulum test

Device	Model	Serial number	Internal code
Datalogger	117-H1	01333640/702	STR018
RRL Pendulum	NA	-	STR006
Air conditioner	BXN0-A022 E	BX-CT0022AA001H	STR127

UNI EN ISO 5470-1:2001 Rubber or plastics coated fabrics. Determination of abrasion resistance. Taber abrader

Device	Model	Serial number	Internal code
Taber Test	5135 Abraser	20081249	STR093
Whill reface	250	20081292	STR155
Kern libra	770	17111475	STR005
Air conditioning system	BXN0-A022 E	BX-CT0022AA001H	STR127
Datalogger	117-H1	01333640/702	STR018

UNI EN ISO 2813:2001 Paints and varnishes. Measurement of specular gloss of non metallic paint films at 20°, 60° and 85°

Device	Model	Serial number	Internal code
Gloss equipment	Novo-glossq	GFE07101732C	STR094
Air conditioning system	BXN0-A022 E	BX-CT0022AA001H	STR127
Datalogger	117-H1	01333640/702	STR018

UNI EN 1569:2001 Surfaces for sports areas. Determination of the behaviour under a rolling load

Device	Model	Serial number	Internal code
Load bearing equipment	NA	-	STR073
Mitutoyo caliber	NA	012243618	STR014
Air conditioning system	BXN0-A022 E	BX-CT0022AA001H	STR127
Datalogger	117-H1	01333640/702	STR018

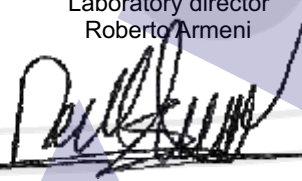
ADDITIONAL INFORMATION

This is a temporary report.

CONCLUSIONS

None

Laboratory director
Roberto Armeni



Technician
Davide Giorgini