


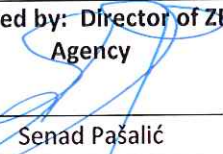


TEST REPORT

PI / 57 / 19

(LIND identification mark)

Customer and address: YIELD d.o.o. Hamdije Kreševljakovića 64 Sarajevo, BiH	Number from ZEDA Protocol book		LIND identification mark of test item PI / 57 / 19	
	Enter: 01-42-362/19	Exit: 01-42-362-5/19		
Test item:	Furniture for seating - non-domestic seating - Bench "AVA BENCH"			
Standards:	According to the ZEDA offer No. 01-42-362-1/19 dated on 15.05.2019 and test order YIELD Ltd. No. 699/19 dated on 17.05.2019, testing of bench "AVA BENCH" is performed according to the requirements of standards: - BAS EN 16139:2014 + BAS EN 16139/Cor1:2014 Furniture - Strength, durability and safety - Requirements for non-domestic seating			
Test results:	According to the test results we concluded that test item PI/57/19: <u>FULFILS</u> requirements of standards BAS EN 16139:2014 + BAS EN 16139/Cor1:2014.			
Comment:	Test results are given in the Annex of Test report PI/57/19.			
Test report is made by: Manager of LIND  Amir Kubat	Date of issuing: 08.10.2019	 M.P. ZEDA d.o.o.	Approved by: Director of ZEDA Agency  Senad Pašalić	Page 1 / 1

BAS EN ISO/IEC 17025

BATA
ACCREDITATION

LI-74-01

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LIND - Accredited laboratory for performing mechanical testing of furniture and equipment for playground

OL5-10-02-4

TEST RESULTS – PI/57/19

PRODUCT DATA

Title of the product / test item: bench "AVA BENCH"	Dimensions: Chair height: 770 mm Seat width: 445 mm Back width: 450 mm	Seat height: 1180 mm Seat depth: 1050 mm
Material of the product/ test item:	Construction: solid wood, oak Backrest: laminated veneer, oak Seat: laminated veneer beech seat, upholstered with foam and textile Seat spacers: hard plastic Backrest stiffener: structural steel	
Description of the product/ test item:	Furniture for seating - non-domestic seating with armrests	
Date of the test item receipt:	29.08.2019	
Air-conditioned:	from 09.09.2019 to 10.09.2019	

Images of test item – bench "AVA BENCH"



TEST RESULTS – bench "AVA BENCH"

Test according to the clause of standard:	Requirements of standard					Result	Requirements fulfilled YES/NO
	Number of cycles/ time	Value and unit	Weight (kg)	Adjustability		
BAS EN 16139:2014 + BAS EN 16139/Cor1:2014 Furniture - Strength, durability and safety - Requirements for non-domestic seating							
4 Safety							
4.1 General	/	According to the standard from a) to e)				/	YES
4.2.3 Shear and squeeze points during use	/	Without shear and squeeze				/	YES
4.3 Stability - 4.3.1 General	Fulfilled requirements from a) to e)					/	YES
4.3.3 Non swivelling chairs	Fulfilled requirements of BAS EN 1022:2009					/	YES
4.5 Safety of the construction	If the requirements from clause 6 of this standard Table 1 are fulfilled/ Connection with: BAS EN 1728:2014 + BAS EN 1728/Cor1:2014					/	YES
5 Safety, strength and durability requirements	If the requirements of this clause of standard and the requirements of Table 1 are fulfilled					/	YES

TEST RESULTS – continuation – bench “AVA BENCH”

Test according to the clause of standard:	Requirements of standard					Result	Requirements fulfilled YES/NO
	Number of cycles/time	Value and unit	Weight (kg)	Adjustability		

BAS EN 16139:2014 + BAS EN 16139/Cor1:2014 Furniture - Strength, durability and safety - Requirements for non-domestic seating

6 Test methods

- Test order according to the Table 1 of standard BAS EN 16139:2014 + BAS EN 16139/Cor1:2014

Table 1- Safety, strength and durability tests

Ord.No. from Table 1	Test	Number of cycles	Loading	Level		Result	Requirements fulfilled YES/NO
				L1	L2		
1.	6.4 Seat and back static load test	10	Seat: Back:	1.600 N 560 N (min 410 N)	2.000 N 700 N (min 410 N)	10x	YES
2.	6.5 Seat front edge static load test	10	Force:	1.300 N	1.600 N	10x	YES
3.	6.6 Vertical static load on back	10	Seat: Back:	1.300 N 600 N	1.800 N 900 N	10x	YES
5.	6.10 Arm sideways static load test	10	Force:	400 N	900 N	10x	YES
6.	6.11 Arm downwards static load test	5	Force:	750 N	900 N	5x	YES
7.	6.13 Vertical upwards static load on arm rests	10 times during $\geq 10s$	Seat load:	250 N or lift stack with max 8 chairs of max 25 kg	1.200 N	10x	YES
8.	6.17 Seat and back durability test	100.000	Seat: 1.000 N Back: 300 N (min. force not defined)	Cycles: 100.000 x	200.000 x	100.000x	YES
9.	6.18 Seat front edge durability test	50.000	Cycles: 800 N	50.000 x	100.000 x	50.000x	YES
10.	6.20 Arm durability test	30.000	Cycles: 400 N	30.000 x	60.000 x	30.000x	YES
12.	6.15 Leg forward static load test	10	Force: Seat:	500 N 1.000 N	620 N 1.800 N	10x	YES
13.	6.16 Leg sideways static load test	10	Force: Seat:	400 N 1.000 N	760 N 1.800 N	10x	YES
14.	6.24 Seat impact test	10	Impact hammer with mass of 25 kg from the height:	240 mm	300 mm	10x	YES
15.	6.25 Back impact test	10	Impact hammer	210/38°	330/38	10x	YES
16.	6.26 Arm impact test	10	Height of fall, mm: Angle of fall, °:	210 mm 38°	330 mm 48°	10x	YES
17.	6.27.1 Drop test (multiple seating)	2x5 times		Not applicable	450 mm	/	/

Remark: L1 for general use; L2 for extreme use; For detail explanation see Annex B of standard BAS EN 16139:2014 + BAS EN 16139/Cor1:2014

7 Information for use	Fulfilled requirements from a) to f) and Annex B	/	YES
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LEGEND: YES – requirement fulfilled; NO – requirement not fulfilled; / - not requested; X – a requirement of standard not tested
s – seat; b – back; r – arm rest

Ambient conditions during test:

- Temperature: from 19,8 to 22,2 °C - Requirement of standard fulfilled: YES / NO
- Relative humidity: from 49,1 to 52,5 % - Requirement of standard fulfilled: YES / NO

Comment:

Tests according to the clauses of standard that are not listed in the specified column with related ordinal numbers, are NOT standard provided and applicable for this test item.

OL5-04-01-2

Date of test start: 10.09.2019

Date of test completion: 07.10.2019

Test performed and working order filled by:

Sanel Ibrić / Emir Čaplja
Sanel Ibrić / Emir Čaplja
Test performer



Checked/Approved by:

Amir Kubat
Amir Kubat
Manager of LIND