



INSTYTUT TECHNOLOGII DREWNA

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AB 088



WOOD, WOOD-BASED MATERIALS, PACKAGING, FURNITURE, WOODEN CONSTRUCTIONS
AND WOODWORKING MACHINES TESTING LABORATORY

FURNITURE TESTING SECTION

Poznań, 2016-11-03

TEST REPORT No.2936/2016/S.D.

Subject of the order: Tests of bunk bed RIO BRAVO.
Order No: A-2936-BBM/2016
Name and address of the customer: BMS GROUP, Sławomir Pegza
Ul. Broniewskiego 18
98-400 Wieruszów
Performance date: 2016-11-03

Operators:

First name and surname	Signature
M.Sc.(Eng.) Michał Rogoziński	

Authorised representative

Head of Laboratory

M.Sc.(Eng.) Mieczysław Silny

INSTYTUT TECHNOLOGII DREWNA
LABORATORIUM BADANIA DREWNA
MATERIAŁÓW DREWNOPOCHODNYCH
OPAKOWAŃ, MEBLI, KONSTRUKCJI I OBRABIAREK
60-654 Poznań, ul. Winiarska 1

1. IDENTIFICATION (DESCRIPTION OF THE TESTED OBJECT)

The tested object was bunk bed RIO BRAVO, ordered for the tests by the company BMS GROUP, Sławomir Pegza. The sample for tests was chosen by the orderer.



2. DATE THE OBJECT WAS RECEIVED FOR TESTING

The test sample was delivered for tests 2016-10-24.

3. SYMBOL AND NAME OF THE TEST METHOD APPLIED

The tests were carried out according to the standard:

EN 747-1:2012+A1:2015 *Furniture - Bunk beds and high beds for domestic use - Part 1: Safety, strength and durability requirements*,

EN 747-2:2012+A1:2015 *Furniture - Bunk beds and high beds for domestic use - Part 2: Test methods*,
Test method D4.

4. LIST OF MEASURING APPARATUSES

The following equipment was used for the tests:

- test rig No. D1/B4,
- furniture test rig No. D1/B1,
- force measuring set AST No. D2/04,
- measuring cones No. D3/P06,
- metal measuring tape No. D2/19,

The equipment was currently checked before use.

5. TEST RESULTS

Test results are shown in protocols No. 1÷2/2936.

6. STATEMENT

Test results described in protocols refer only to the tested sample.

Test report can not be copied in parts only as entire form.

PROTOCOL NO. 1/2936
BUNK BED SAFETY TESTS

according to: EN 747-1:2012+A1:2015
Name of furniture: **Bunk bed RIO BRAVO**
Customer: **BMS GROUP, Sławomir Pegza**
Contract No. A-2936-BBM/2016

Specification acc. to EN 747-1	Scope of test	Test result
4.1.1	Construction - General	pass
4.1.2.1	Accessible holes and openings - general	pass
4.1.2.2	Head entrapment on the outside of bunk bed/high bed	pass
4.1.3	Bed base(s)	pass
4.1.4	Safety barriers	pass
4.1.5	Ladder or other means of access	pass
4.2	Strength of ladder or other means of access: attachment, deflection and strength	pass
4.3	Strength of frame and fastenings	pass
4.4	Stability	pass
4.5	Fastening of the upper bed to the lower bed	pass
5	Instruction for use	pass
6	Marking	pass

MSc.Eng. M. Rogoziński
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2016-11-03
Date

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Signature

PROTOCOL NO. 2/2936
BUNK BED STRENGTH AND DURABILITY TEST

according to: EN 747-2:2012+A1:2015
Name of furniture: **Bunk bed RIO BRAVO**
Customer: **BMS GROUP, Sławomir Pegza**
Contract No. A-2936-BBM/2016

Specification acc. to EN 747-2	Scope of test	Test parameters	Test result
5.1	Inspection before testing	acc. norm	pass
5.2	Inspection of product	acc. norm	pass
5.3.1	Measurements: holes, gaps and openings	acc. norm	pass
5.3.2	V and irregular shaped holes, gaps and openings	acc. norm	pass
5.4.2	Static load on safety barriers	$P_{ver.up.}=200\text{ N}$ $P_{hor.out.}=500\text{ N}$ $P_{hor.in.}=500\text{ N}$ $P_{ver.down.}=1000\text{ N}$ $n=10\text{ cycles} \times 30\text{ s}$	pass
5.4.3	Upwards and downwards static load on bed base	$P_{ver.down.}=1000\text{ N}$ $n=10\text{ cycles} \times 30\text{ s}$ $P_{ver.up.}=500\text{ N}$ $n=4\text{ cycles} \times 30\text{ s}$	pass
5.4.4	Impact test on bed base	$Q=25\text{ kg}$ $n=10\text{ cycles} \times 7\text{ points}$	pass
5.4.5	Durability test on bed base	$P=1000\text{ N}$ $n=10\ 000\text{ cycl.} \times 2\text{ points}$	pass
5.5	Durability test of frame and fastenings	$P=300\text{ N}$ $n=10\ 000\text{ cycles} \times 4\text{ points}$	pass
5.6.1	Ladder – vertical static loads on treads	$P_{ver.down.}=1200\text{ N}$ $n=10 \times 30\text{ s}$	pass
5.6.2	Ladder – horizontal static loads on treads	$P_{ver.down.}=1000\text{ N}$ $t=60\text{ s}$	pass
5.6.3	Durability of treads	$P=1000\text{ N}$ $n=10000$	pass
5.6.2	Tread impact test	acc.norm $n=10\text{ cycles}$	pass
5.7	Stability test	$F=120\text{ N}$	pass
5.8	Fastening of the upper bed to the lower bed	$P=500\text{ N}$ $t=30\text{ s}$	pass

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----- end of test report -----