

Date received: 17/08/15

Date of issue: 17/03/16

Report consists of 14 test reports.

Defects before testing: None

Sample name: TICIA01

COMPLOJER INNENEINRICHTUNG DI  
COMPLOJER DAVIDE  
ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

## SAMPLE N° 200914

Overall dimensions: 2100 x 1450 x 1870 (h) mm

### List performed tests:

1. Safety requirements EN 747-1:2012+A1:2015
2. Dimensional measures EN 747-2:2012+A1:2015
3. Static load of safety barriers EN 747-2:2012+A1:2015
4. Upwards and downwards static loads on bed base EN 747-2:2012+A1:2015
5. Impact test of bed base EN 747-2:2012+A1:2015
6. Durability test on bed base EN 747-2:2012+A1:2015
7. Durability test of frame and fastenings EN 747-2:2012+A1:2015
8. Vertical static load on treads EN 747-2:2012+A1:2015
9. Horizontal static load on treads EN 747-2:2012+A1:2015
10. Durability of treads EN 747-2:2012+A1:2015
11. Tread impact test EN 747-2:2012+A1:2015
12. Stability test EN 747-2:2012+A1:2015
13. Fastening of the upper bed to the lower bed EN 747-2:2012+A1:2015
14. Instruction for use and marking EN 747-1:2012+A1:2015



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Managing Director  
Dr. Andrea Giavon

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TEST REPORT

200914 / 1

Date received: 17/08/15  
Date of test: 25/09/15  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
COMPLOJER DAVIDE  
ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

**Safety requirements EN 747-1:2012+A1:2015**

CLAUSE 4.1: CONSTRUCTION

CLAUSE 4.1.1: GENERAL

Requirement	Requirement	Observed/measured	Remarks
Accessible edges and corners shall be rounded and free from burr or sharp edges	Yes	Yes	Pass
There shall not be open ended tubes	Yes	Tubulars not present	Pass
All assembly and pilot holes shall be made by manufacturer	Yes	Yes	Pass
Height of vertical protruding part on the top of the upper bed shall comply with one of the requirement at point a), b), c) or d) in clause 4.1.1 of EN 747-1:2012+A1:2015	Yes	Complies with requirement c)	Pass
It shall not be possible to dismantle the bed or its components without the use of a tool	Yes	Yes	Pass

CLAUSE 4.1.2: ACCESSIBLE HOLES GAPS AND OPENINGS

Requirement	Requirement	Observed/measured	Remarks
Accessible holes, gaps or openings	If $\geq 7$ mm and $\leq 12$ mm, depth $< 10$ mm	$> 7$ mm $< 12$ mm depth $< 10$ mm	Pass See reference n° 200914/2
Dimensions of accessible holes, gaps or openings	$\geq 12$ mm, $\leq 25$ mm, $\geq 60$ mm, $\leq 75$ mm and $\geq 200$ mm	$> 200$ mm	Pass See reference n° 200914/2
There shall not be head entrapment points on the outside of the bunk bed/high bed, when tested according to clause 5.3.2 of EN 747-2:2012+A1:2015	Yes	No entrapment points	Pass

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#### CLAUSE 4.1.3: BED BASE(S)

Requirement	Requirement	Observed/measured	Remarks
The bed or its elements shall not fall down when tested with the horizontal outwards force, clause 5.4.2 of EN 747-2:2012+A1:2015	Yes	Yes	Pass See reference n° 200914/3
Gaps between the bed base and the sides or ends, measured according to 5.3 of EN 747-2:2012+A1:2015	≤ 25 mm	< 25 mm	Pass See reference n° 200914/2
Gaps between bed base components measured according to 5.3 of EN 747-2:2012+A1:2015	≤ 75 mm	< 75 mm	Pass See reference n° 200914/2
When tested in accordance with 5.4.3, 5.4.4, 5.4.5 of EN 747-2:2012+A1:2015 the bed base and/or its elements shall not break, fall down or become detached	No	No	Pass See reference n° 200914/4/5/6
Clear distance between the upper and the lower bed base	≥ 750 mm	1120 mm	Pass
The bed base shall allow ventilation with a minimum area	> 35 cm <sup>2</sup>	Yes	Pass

#### CLAUSE 4.1.4: SAFETY BARRIERS

Requirement	Requirement	Observed/measured	Remarks
The safety barriers are continuous all around the bed; an opening of access shall be located on one long side only	Yes	Yes	Pass
Gaps between the ends of the safety barrier and the bed end structures	≤ 7 mm	Not present	Pass See reference n° 200914/2
In non-domestic use only, the structure of the building can act as a safety barrier	Yes	Fixing is not intended	Pass
The safety barriers shall be secured against accidental loosening when tested according to clause 5.4.2 of EN 747-2:2012+A1:2015	Yes	Yes	Pass See reference n° 200914/3
Distance between the upper edge of the safety barriers and the upper side of the bed base	≥ 260 mm	330 mm	Pass
Distance between the top of the mattress and the upper edge of the safety barriers	≥ 160 mm	/	See note 1
The maximum thickness of the mattress shall be permanently marked	Yes	Yes	Pass
Opening for access on one long side	≥ 300 mm and ≤ 400 mm	330 mm	Pass

Note 1: mattress not supplied

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#### CLAUSE 4.1.4: SAFETY BARRIERS

Requirement	Requirement	Observed/measured	Remarks
Radius of the upper corners of the safety barriers	≤ 85 mm	< 85 mm	Pass
Horizontal distance between the outside of the top safety barrier and the vertical projection of the outermost point of the legs/posts	< 55 mm or > 230 mm	< 55 mm	Pass
Clear space, in one direction, between two adjacent retaining elements when tested according to 5.3 of EN 747-2:2012+A1:2015	≤ 5 mm or ≥ 60 mm and ≤ 75 mm	> 60 mm < 75 mm	Pass See reference n° 200914/2

#### CLAUSE 4.1.5: LADDER OR OTHER MEANS OF ACCESS

Characteristic	Requirement	Observed/measured	Remarks
The ladder or other means of access shall be either vertical or shall have a positive inclination towards the upper bed	Yes	Yes Towards the bed	Pass
Distance from the floor to the upper surface of the first foothold	≤ 400 mm	252 mm	Pass
Distance between two successive footholds	(250 ± 50) mm	(252 ÷ 253) mm	Pass
Tolerance of the distance between the upper surface of footholds	± 5 mm	1 mm	Pass
Distance between the top tread and the point of access	≤ 500 mm	292 mm	Pass
Clear distance between two successive footholds	≥ 200 mm	> 230 mm	Pass
Usable width of foothold	≥ 300 mm	310 mm	Pass
Straight line of the front edges of all the footholds	± 20 mm	0 mm	Pass
Gap between any foothold and any part of the bed frame	≤ 7 mm ≥ 12 mm ≤ 25 mm ≥ 60 mm ≤ 75 mm ≥ 200 mm	> 200 mm	Pass
Effective step depth	≥ 90 mm	> 90 mm	Pass
Frame parts of the bed situated in the vicinity of footholds shall not interfere with usable area of the foothold.	Yes	Yes	Pass

#### CLAUSE 4.2: STRENGTH OF LADDER: ATTACHMENT, DEFLECTION AND STRENGTH

Characteristic	Requirement	Observed/measured	Remarks
The ladder shall not break, become detached or deform permanently by more than 5 mm after tested according to 5.6 of EN 747-2:2012+A1:2015	Yes	Yes	Pass See reference n° 200914/8/9 n° 200914/10/11

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#### CLAUSE 4.3: STRENGTH OF FRAME AND FASTENINGS

Characteristic	Requirement	Observed/measured	Remarks
The frame and structural fastenings shall not be damaged or malfunction; nor shall any part detach when tested according to clause 5.4.2 and 5.5 of EN 747-2:2012+A1:2015	Yes	Yes	Pass See reference n° 200914/3/7

#### CLAUSE 4.8: STABILITY

Characteristic	Requirement	Observed/measured	Remarks
The bed shall not overturn when tested according to 5.7 of EN 747-2:2012+A1:2015	> 120 N	Measured force: > 200 N	Pass See reference n° 200914/12

#### CLAUSE 4.9: FASTENING OF THE UPPER BED TO THE LOWER BED

Characteristic	Requirement	Observed/measured	Remarks
The upper bed shall not be disconnected to the lower when tested according to 5.8 of EN 747-2:2012+A1:2015	Yes	Yes	Pass See reference n° 200914/13

Unless otherwise specified, measurement uncertainties expanded to a confidence level of about 95% are  $\pm 5$  mm and  $\pm 1$  mm for the height of vertical protruding part and for the permanent deformation of the ladder.

The measurement uncertainties stated in this document have been determined according to UNI CEI ENV 13005:2000. They were estimated as expanded uncertainty obtained by multiplying the standard uncertainty by the coverage factor k corresponding to a confidence level of about 95%. Normally k=2

## TEST REPORT

### 200914 / 2

Date received: 17/08/15  
Date of test: 25/09/15  
Date of issue: 17/03/16  
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COMPLOJER INNENEINRICHTUNG DI  
COMPLOJER DAVIDE  
ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

## Dimensional measures EN 747-2:2012+A1:2015

Clause 5.3: measuring of holes, gaps and openings

Test results:

Clause 4.1.2 of EN 747-1:2012+A1:2015 - Accessible holes, gaps and openings

Dimension	Requirement (mm)	Measured value (mm)	Remarks
Accessible holes, gaps and openings	> 7 mm < 12 mm with depth < 10 mm	> 7 mm < 12 mm depth < 10 mm	None
Accessible holes, gaps and openings	≥12 mm ≤ 25 mm ≥ 60 mm ≤ 75 mm ≥ 200 mm	> 200 mm	None

Clause 4.1.3 of EN 747-1:2012+A1:2015 - Bed base

Dimension	Requirement (mm)	Measured value (mm)	Remarks
Gaps between the bed base and the side or ends	≤ 25 mm	< 25 mm	None
Gaps between bed base components	≤ 75 mm	< 75 mm	None

Clause 4.1.4 of EN 747-1:2012+A1:2015 - Safety barriers

Dimension	Requirement (mm)	Measured value (mm)	Remarks
Gaps between ends of the safety barrier and bed end structures	≤ 7 mm	Not present	None
Clear space between two adjacent retaining elements	≤ 5 mm or ≥60 mm ≤ 75 mm	> 60 mm < 75 mm	None

Clause 4.1.5 of EN 747-1:2012+A1:2015 - Ladder or other means of access

Dimension	Requirement (mm)	Measured value (mm)	Remarks
Gaps between any foothold and any part of bed frame	≤ 7 mm ≥12 mm ≤ 25 mm ≥ 60 mm ≤ 75 mm ≥ 200 mm	> 200 mm	None

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## TEST REPORT

### 200914 / 3

Date received: 17/08/15  
Date of test: 24/12/15  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
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ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

## Static load of safety barriers EN 747-2:2012+A1:2015

Static load of safety barriers, clause 5.4.2

Test results:

Test mass: 75 kg

Vertical upwards static load:

Vertical force N	Load duration s	Number of applications	Remarks
200	30	10	No defects

Horizontal outwards / inwards static load:

Horizontal force N	Load duration s	Number of applications	Remarks
500	30	10	No defects

Vertical downwards static load:

Vertical force N	Load duration s	Number of applications	Remarks
1.000	30	10	No defects

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## TEST REPORT

### 200914 / 4

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COMPLOJER INNENEINRICHTUNG DI  
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ITALIA

## Upwards and downwards static loads on bed base EN 747-2:2012+A1:2015

### Test results:

Clause 5.4.3: downwards static load on bed base

Load application points: centre of bed base / 300 mm from the sides

Vertical force N	Number of applications per position	Load duration s	Remarks
1.200	10	30	No defect

Clause 5.4.3: upwards static load on bed base

Load application points: centre of bed base / 300 mm from the sides

Vertical force N	Number of applications per position	Load duration s	Remarks
500	4	30	No defect

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## TEST REPORT

### 200914 / 5

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Date of test: 24/12/15  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
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39030 LA VALLE (BZ)  
ITALIA

## Impact test of bed base EN 747-2:2012+A1:2015

Clause 5.4.4: impact test on bed base

Mass of impactor: 25 kg

Test results:

Impact point	Drop height	Number of impacts	Remarks
a	180 mm	10	No defects
b	180 mm	10	No defects
c	180 mm	10	No defects
d	180 mm	10	No defects
e	180 mm	10	No defects

- a) at the centre of bed base
- b) one third of the longitudinal axis from the middle
- c) the point opposite of b)
- d) a point of 200 mm measured from the adjacent edges
- e) at the centre of long side, 200 mm from the edge

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TEST REPORT

200914 / 6

Date received: 17/08/15  
Date of test: 29/12/15  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
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ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

**Durability test on bed base EN 747-2:2012+A1:2015**

Clause 5.4.5: durability test on bed base

Test results:

Load application point: centre of bed base

Frequency of load application:

Vertical force	Number of cycles	Remarks
1000 N	10.000	No defects

Load application point: a point at 300 mm measured from two adjacent edges.

Frequency of load application:

Vertical force	Number of cycles	Remarks
1000 N	10.000	No defects

Load application point: centre of short side, 500 mm from the edge

Frequency of load application:

Vertical force	Number of cycles	Remarks
1000 N	10.000	No defects

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TEST REPORT

200914 / 7

Date received: 17/08/15  
Date of test: 04/01/16  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
COMPLOJER DAVIDE  
ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

**Durability test of frame and fastenings EN 747-2:2012+A1:2015**

Clause 5.5: durability test of frame and fastenings

Test results:

Load in the centre of bed base: 75 kg

Frequency of load application: 4 cycles/min

Horizontal force N	Number of cycles	Remarks
300	10.000	No defects

Alternating force applied in the following order: A-B-C-D

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TEST REPORT

200914 / 8

Date received: 17/08/15  
Date of test: 08/01/16  
Date of issue: 17/03/16  
Sample name: TICIA01



COMPLOJER INNENEINRICHTUNG DI  
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39030 LA VALLE (BZ)  
ITALIA

**Vertical static load on treads EN 747-2:2012+A1:2015**

Clause 5.6.1: vertical static load on treads

Application point: mid-point of the tread

Test results:

Vertical downwards force N	Number of cycles	Load duration s	Permanent deflection measured mm	Remarks
1.200	10	30	0	No defects

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TEST REPORT

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COMPLOJER INNENEINRICHTUNG DI  
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**Horizontal static load on treads EN 747-2:2012+A1:2015**

Clause 5.6.2: horizontal static loads on treads

Test results:

Vertical force N	horizontal force N	Load duration s	Direction	Permanent deflection measured mm	Remarks
1.000	500	60	longitudinal	0	No defects
1.000	500	60	transversal	0	No defects

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TEST REPORT

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COMPLOJER INNENEINRICHTUNG DI  
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ITALIA

**Durability of treads EN 747-2:2012+A1:2015**

Clause 5.6.3: durability of treads

Test results:

Tread under test: central

Frequency of load application: 16 cycles/min

Vertical force N	Number of cycles	Permanent deflection measured mm	Remarks
1.000	10.000	0	No defects

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TEST REPORT

200914 / 11

Date received: 17/08/15  
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Date of issue: 17/03/16  
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ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA

**Tread impact test EN 747-2:2012+A1:2015**

Clause 5.6.4: treads impact test

Impactor:

- steel tube weight 1,6 kg
- mass of 15 kg
- impact pad with total mass of 0,5 kg

Treads under test: top, most central and bottom

Impact position on treads: close to one side - middle

Test results:

Drop height mm	Number of drops per position	Permanent deflection measured mm	Remarks
150	10	0	No defects

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TEST REPORT

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COMPLOJER INNENEINRICHTUNG DI  
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39030 LA VALLE (BZ)  
ITALIA

**Stability test EN 747-2:2012+A1:2015**

Clause 5.7: stability test

Test results:

Overturning force measured that lift more than one leg  
of the bed from the floor

> 200 N

Minimum overturning force according to the clause 5.7 of EN 747-2:2012:

120 N

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## TEST REPORT

200914 / 13

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Date of test: 12/01/16  
Date of issue: 17/03/16  
Sample name: TICIA01COMPLOJER INNENEINRICHTUNG DI  
COMPLOJER DAVIDE  
ZONA INDUSTRIALE PEDEROA 6  
39030 LA VALLE (BZ)  
ITALIA**Fastening of the upper bed to the lower bed EN 747-2:2012+A1:2015**

Clause 5.8: Fastening of the upper bed to the lower bed

Components under test: bed base, near the joint with a leg

Test results:

Vertical force	Load duration	Remarks
500 N	30 s	No defects

A load of 50 kg has been applied on the lower bed to avoid lifting

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TEST REPORT

200914 / 14

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COMPLOJER INNENEINRICHTUNG DI  
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39030 LA VALLE (BZ)  
ITALIA

**Instruction for use and marking EN 747-1:2012+A1:2015**

Clause 5: instruction for use

The instructions for use shall include at least the following information:

Statement checked	Remarks
IMPORTANT - READ CAREFULLY - RETAIN FOR FUTURE REFERENCE	Present
a) WARNING: "High beds and upper bed of bunk beds are not suitable for children under six years due to the risk of injury from falls".	Present
b) WARNING:"Bunk beds and high beds can present a serious risk of injury from strangulation if not used correctly. Never attach or hang items to any part of the bunk bed that are not designed to be used with the bed, for example, but not limited to ropes, strings, cords, hooks, belts and bags".	Present
c) WARNING: "Children can become trapped between the bed and the wall. To avoid risk of serious injury the distance between the top safety barrier and the wall shall not exceed 75 mm or shall be more than 230 mm".	Present
d) WARNING:" Do no use the bunk bed/high bed if any structural part is broken or missing".	Present
e) always follow the manufacturer's instructions;	Present
f) Recommended size of the mattress(es)	Present
g) a statement that ventilation of the room is necessary in order to keep the humidity low and to prevent mould in and around the bed;	Present
h) all bunk beds and high beds intended to be assembled by other than the manufacturer or his/her representative shall include assembly instructions including a list of the parts supplied and details of any tools required to assemble the bed;	Present
i) instructions regarding positioning and connection of the means of access;	Present
j) Maximum thickness of the mattress as well as information regarding the mattress maximum thickness marking.	Present
k) a statement to check regularly that all assembly fastenings are properly tightened;	Present
l) Number and year of this European Standard	Present

*This document is validated by digital signature and time stamping in accordance with the Italian laws and the European Directives which regulate the electronic signature systems.*

Managing Director  
Dr. Andrea Giavon

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Sample name: TICIA01

**Clause 6: marking**

All beds for which claim for compliance with the requirements of this standard shall be marked with the following information.

Statement checked	Remarks
a) The name, registered trade name or registered trade mark of either the manufacturer, distributor or retailer	Present
b) Maximum thickness of the mattress to be used with the bed. This can be in the form of text, a line on the bed at the correct height, or by other means;	Adesive label
c) either a text or a pictogram visible when in use as follows:  Text on high beds: This high bed is not suitable for children under six years; or Text on each upper bed: This upper bed is not suitable for children under six years Pictogram at least 15 mm x 15 mm	Pictogram
d) Number and year of this European Standard	Present