

SAFEGUARDS

SGS CONSUMER TESTING SERVICES

HARDGOODS, TOYS & JUVENILE PRODUCTS

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EN 747 PART 1 AND 2 BUNK BEDS STANDARDS REVISED

The proposed revisions to EN 747 Part 1: bunk beds and high beds (safety, strength and durability requirements) and EN 747 Part 2: test methods were recently voted through at the formal voting stage.

These revised standards will be published by the national standards bodies as European harmonised standards within the next 6 months.

The previous versions of the standards were applicable only to domestic use; however the revised standards now include non domestic use. The inclusion of non domestic use for bunk beds and high beds will result in the withdrawal of EN 13453 Parts 1 and 2: Bunk beds and high beds for non domestic use.

The European standard does not apply for special purposes use such as prison, military or fire services.

EN 747 is applicable to bunk beds and high beds with an internal length greater than 140cm and a maximum bed base width of 120cm.

The main changes for the general safety requirements in the future EN 747 are:

- The wording has been improved for dimensional general



requirements, specific requirements for safety barriers, bed bases;

- For non domestic use only, a wall can be considered as a barrier element if the instructions mention it;
- A change to the requirements for protruding parts, this will allow for more design features as wide or tall protrusions will not be classified as a safety issue.

Comparison of main changes to mechanical tests with the current EN 747, EN 13453 and the future EN 747 is shown in Table 1:

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TABLE 1.

	EN 747:2007	EN 13453:2004	Pr EN 747 2010
Static load test on bed base	Downward 1000N Upward 500N	Downward 1200N Upward 500N	Downward 1200N Upward 500N
Impact test on base bed	Height 180mm	Height 250mm	Height 180mm
Durability test on base bed	1000N 10,000 Cycles 2 application points	1000N 20,000 Cycles 3 application points	1000N 10,000 Cycles 2 application points + The most unfavourable point
Static load test on tread		2000N (or 1000N to the two mid treads)	1200N
Impact test on tread	Height 150mm	Height 175mm	Height 150mm
Durability test on tread		1500N 20,000 Cycles	1000N 10,000 Cycles
Durability test of frame and fastenings	300N 10,000 Cycles	350N 10,000 Cycles	300N 10,000 Cycles
Stability test	170N.m	170N.m/300N.m	120N horizontal

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FOR ENQUIRIES:

Global Competence Support Centre: gpsc@sgs.com
 CN-Donna Gu, Tel: +86-21-61402666 or donna.gu@sgs.com
 CN-Bill Wang, Tel: +86-757-2280 5716 or bill.wang@sgs.com

Asia – Hong Kong. Tel: +852 2334 4481 Fax: +852 2144 7001 mktg.hk@sgs.com
 Australasia – Perth. Tel: +61 (0) 3 9790 3418 Fax: +61 (0) 3 9701 0988 au.cts@sgs.com
 Europe – London – UK. Tel: +44(0) 203 008 7860 Fax: +44 (0) 203 00 7870 gb.cts.sales@sgs.com
 Africa & Middle East – Turkey. Tel: +90 212 368 40 00 Fax: +90 212 296 47 82 sgs.turkey@sgs.com
 Americas – USA. Tel: +1 973 575 5252 Fax: +1 973 575 7175 uscts.inquiries@sgs.com

www.sgs.com/cts Global Competence Support Centre: gpsc@sgs.com
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