

## Updates for Furniture Test Standards (3) – Domestic Tables and Trolleys BS 4875-5:2009 and BS 7376:2009

The Subcommittee FW/0/2, Domestic and Contract Furniture, under the authority of Technical Committee FW/0, Furniture of the British Standards Institution (BSI) has recently revised and published the new edition of the safety standards for *Tables and Trolleys for Domestic Use*.

**BS 4875-5:2009** *Strength and stability of furniture – Part 5: Requirements for strength, durability and stability of tables and trolleys for domestic use*

**BS 7376:2009** *Inclusion of glass in the construction of tables and trolleys for domestic use – Specification*

Both revisions **BS 4875-5:2009** and **BS 7376:2009** came into effect on 30 April 2009. Their former editions BS 4875-5:2001 and BS 7376:2004 were superseded and withdrawn accordingly.



In the new revisions, both **BS 4875-5:2009** and **BS 7376:2009** specify that the performance requirements for the strength, durability and stability are limited to tables and trolleys for domestic use only. For non-domestic tables (including those featuring glass in their construction), the performance requirements shall be referred to another standard **BS EN 15372:2008 Furniture – Strength, durability and safety – Requirements for non-domestic tables**.

The changes compared with the former editions were mainly editorial and to update the reference standards with the corresponding new revisions. Both **BS 4875-5:2009** and **BS 7376:2009** follows **Table A.1** for the test levels in relation to the application. Details of the tests are illustrated in **Table B**.

**Table A.1 – Relationship of test levels to use of furniture**

Test Level	Performance Category	Example of Use
1	Delicate	Fine tables of delicate appearance
2	Light	Domestic bedroom
3	General	Domestic living / dining room
4	Heavy	Tables where rough treatment and careless handling occur
5	Severe	Tables intended for exceptionally severe use

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**Table B - Tests**

Test & Test Description	Loading	BS 4875-5:2009 (Test Level)					BS 7376:2009 <sup>1)</sup> (Test Level)				
		1	2	3	4	5	1	2	3	4	5
<b>BS EN 1730-2000, 6.7</b> Stability under vertical load	Test force, N	300	300	300	300	300	300	300	300	300	300
	V <sub>1</sub> V <sub>2</sub>	600	600	600	600	600	600	600	600	600	600
<b>BS 4875-5:2009, Annex B</b> Stability – horizontal impact	Drop height, mm:	--	30	35	35	40	30	30	35	35	40
	Total mass of impactor, kg:	--	40	45	45	50	40	40	45	45	50
<b>BS EN 1730-2000, 6.2</b> Horizontal static load	Test force, N	175	300	450	600	750	300	300	450	600	750
	Number of cycles: 10										
<b>BS EN 1730-2000, 6.3</b> Vertical static load	Test force, N										
	a) main working surface:	500	750	1000	1250	1500					
	b) ancillary working surface:	125	250	350	500	650					
	Number of cycles: 10										
<b>BS EN 1730-2000, 6.4</b> Horizontal fatigue	Test force, N						750	750	1000	1250	1500
	a) toughened and laminated glass components						1500	1500	1500	1500	1500
	b) all other glass components										
	Number of cycles:	5000	10000	15000	30000	60000	10000	10000	15000	30000	60000
<b>BS EN 1730-2000, 6.5</b> Vertical fatigue for cantilever or pedestal tables	Test force; 150 N										
	Test force; 300 N	5000	10000	15000	30000	60000	10000	10000	15000	30000	60000
<b>BS 4875-5:2009, Annex C</b> Sustained load	Number of cycles:	5000	10000	15000	30000	60000	10000	10000	15000	30000	60000
	Test force, kg/m <sup>2</sup> :	100	100	150	200	250					
<b>BS EN 1730-2000, 6.6</b> Vertical impact	Drop height, mm:	--	140	180	240	300					
	Number of cycles: 10										
<b>BS EN 14072:2003, 6</b> Vertical impact	Drop height, mm:						140	140	180	240	300
	a) toughened and laminated glass components						300	300	300	300	300
	b) all other glass components										
	Number of cycles: 10										
<b>BS 4875-5:2009, Annex D.1</b> Drop test for single tables weighing up to and including 20 kg	Nominal drop height, mm:	100	150	200	300	600	40	40	50	50	100
	Number of cycles: 10										
<b>BS 4875-5:2009, Annex D.2</b> Drop test for single tables weighing more than 20 kg	Determined by Figure D.2 (using nominal drop height)										
	Number of cycles: 10										
<b>BS 4875-5:2009, Annex D.3</b> Drop test for stacking tables	Determined by Figure D.2 (using nominal drop height)										
	Number of cycles: 10										

<sup>1)</sup> Toughened glass shall also be tested according to BS EN 12150-1:2000, 8.3 and 8.4 (fragmentation test).

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