

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

The **British Standards Institution (BSI)** has recently revised and published the new edition of the safety standards for **Tables and Trolleys for Domestic Use**.

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 Their former editions BS 4875-5:2001 and BS 7376:2004 were superseded and withdrawn accordingly.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** follow **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

**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 V <sub>1</sub> V <sub>2</sub>	300 600	300 600	300 600	300 600	300 600	300 600	300 600	300 600	300 600	300 600
<b>BS 4875-5-2009, Annex B</b> Stability – horizontal impact	Drop height, mm: Total mass of impactor, kg:	-- --	30 40	35 45	35 45	40 50	30 40	30 40	35 45	35 45	40 50
<b>BS EN 1730-2000, 6.2</b> Horizontal static load	Test force, N Number of cycles: 10	175	300	450	600	750	300	300	450	600	750
<b>BS EN 1730-2000, 6.3</b> Vertical static load	Test force, N a) main working surface: b) ancillary working surface: Number of cycles: 10	500 125	750 250	1000 350	1250 500	1500 650					
	Test force, N a) toughened and laminated glass components b) all other glass components						750 1500	750 1500	1000 1500	1250 1500	1500 1500
<b>BS EN 1730-2000, 6.4</b> Horizontal fatigue	Number of cycles: Test force; 150 N	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	Number of cycles: Test force; 300 N	5000	10000	15000	30000	60000	10000	10000	15000	30000	60000
<b>BS 4875-5-2009, Annex C</b> Sustained load	Test load, kg/m <sup>2</sup> :	100	100	150	200	250					
<b>BS EN 1730-2000, 6.6</b> Vertical impact	Drop height, mm: Number of cycles: 10	--	140	180	240	300					
<b>BS EN 14072:2003, 6</b> Vertical impact	Drop height, mm: a) toughened and laminated glass components b) all other glass components						140 300	140 300	180 300	240 300	300 300
<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
<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).