

Resistance to ignition of mattresses, mattress pads, divans and bed bases

Specification: BS 7717-2008

Test Method: BS EN 597-1:1995

BS EN 597-2:1995

BS 6807:2006

Resistance to ignition source – smouldering cigarette

Resistance to ignition source – match flame

Resistance to ignition source – wooden crib

The objective of this testing is to measure the ignitability of mattresses, upholstered divans and upholstered bed bases when subjected to smouldering and flaming type ignition sources of differing severities.

BS 7177-2008, Table 1 specifies requirements for resistance of mattresses, divans and bed bases including those used in areas vulnerable to arson. It is important to note that the levels do not necessarily reflect product behavior in a fully developed fire.

Hazard Category	Requirements	Typical examples
	Resistant to ignition source	
Low Hazard (domestic use)	BS EN 597-1, Source 0 BS EN 597-2 Source 1	Smouldering ignition Flame ignition Domestic dwellings (including non-motorised caravans)
Medium hazard	BS EN 597-1, Source 0 BS EN 597-2 Source 1 BS 6807 – Source 5	Smouldering ignition Flame ignition Crib 5 – Top ignition Crib 5 – Edge ignition Boarding schools Day Centres University / school residential accommodation Holiday camp Hospitals Hostels Aged care
High Hazard	BS EN 597-1, Source 0 BS EN 597-2 Source 1 BS 6807 – Source 7	Smouldering ignition Flame ignition Crib 7 – Top ignition Crib 7 – Edge ignition Specialized hospital wards Hostels Hotels Off shore installations Aged care
Very High Hazard	BS EN 597-1, Source 0 BS EN 597-2 Source 1 BS 6807 – Source 7	Smouldering ignition Flame ignition Crib 7 – Top ignition Crib 7 – Edge ignition Locked psychiatric accommodation Prison Cells

Additional requirements may be included at discretion of specifier

BS 7177-2008, Table 1 Performance requirements

Ignition Source cigarette)	0 (Smouldering)	Ignition Source Test Code	1-3 (Match flame) T17D	Ignition Source Test Code	4-7 (Crib) T17DC
Test Code	T17C	Specimen	2 samples (as below)	Specimen	4 samples (as below)
Specimen	2 samples (as below)				

Sample required

Finished mattress at nominal thickness, not less than 450mm x 350mm. The proposed edge finishing system shall be incorporated, e.g. plain, piped or tape edged and the mattress surface shall be as proposed, i.e. tufted, quilted or smooth top.

Delivery Address	Further information
AWTA Product Testing Level 1, 191 Racecourse Rd, Flemington VIC 3031, Australia	AWTA Product Testing Phone: (03) 9371 2400 Email: producttesting@awta.com.au

IMPORTANT NOTE: That by submitting samples for testing YOU AGREE that the resulting testing shall be performed under our terms and conditions for testing and consulting services: www.awtaproducttesting.com.au/index.php/about/terms-and-conditions