

# BS 7950 ENHANCED SECURITY HARDWARE

## What is BS 7950?

BS 7950 Security Test was developed in 1997. In 2007 a Specification for Enhanced Security Performance of Windows (Revision 3) for Domestic Applications came into effect.

## How is it tested?

Dungannon Window Company supplied a test sample window (900mm wide x 1500mm high x 128mm depth) to Wintech Window and Cladding Testing and Laboratory Services, here they mounted the test sample window in a 140mm x 45mm timber sub-frame in accordance to Dungannon Window Company's manufacturing installation requirements. It was then secured into the test rig which was constructed to meet the specific requirements to the test specification (see diagram below).

## What Tools Were Used?

Mild Steel Wire  
2 Number Credit Cards  
1 Number Craft Knife  
4 Number Flat Blade Screwdrivers  
2 Number Paint Scrapers  
2 Number Nail Bars



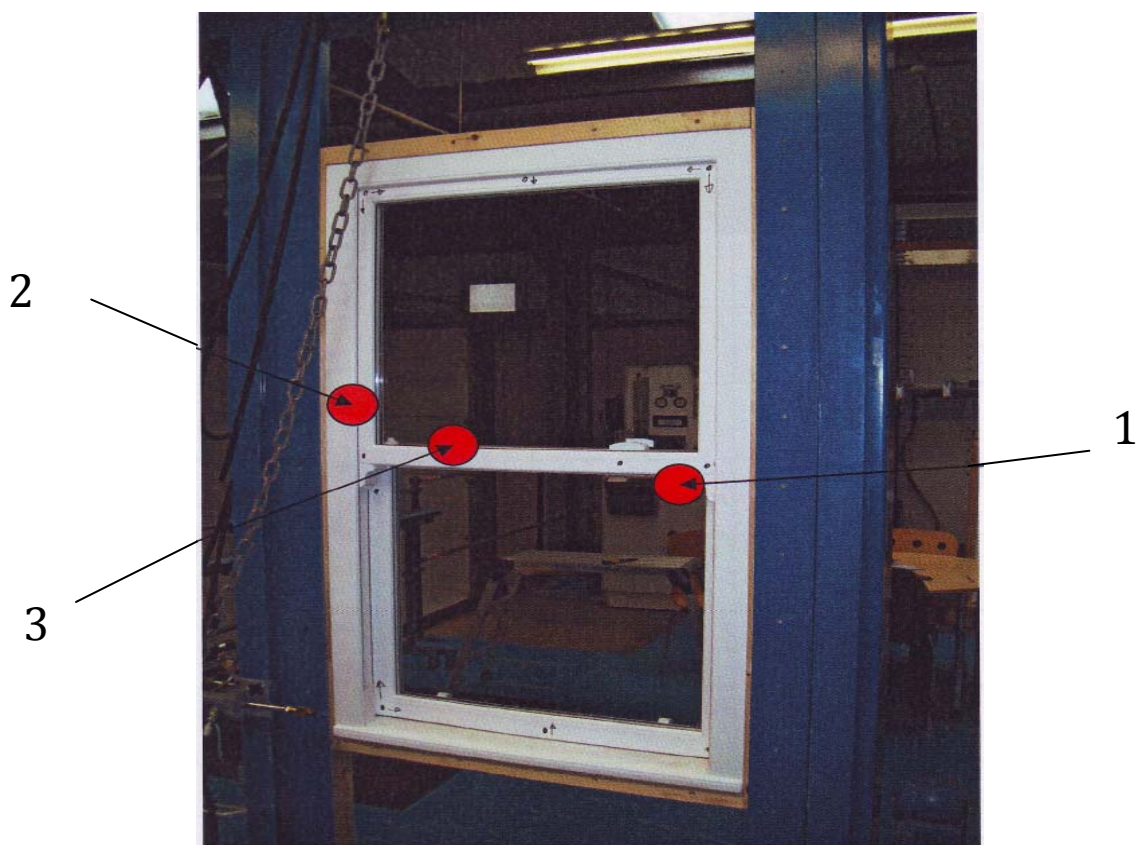
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## TEST RESULTS

The sample window was mounted vertically in the test rig and the test was carried out using the tools as described before and listed below

No entry could be obtained within the available time period given (see chart below) and has PASSED the requirement of this specification.

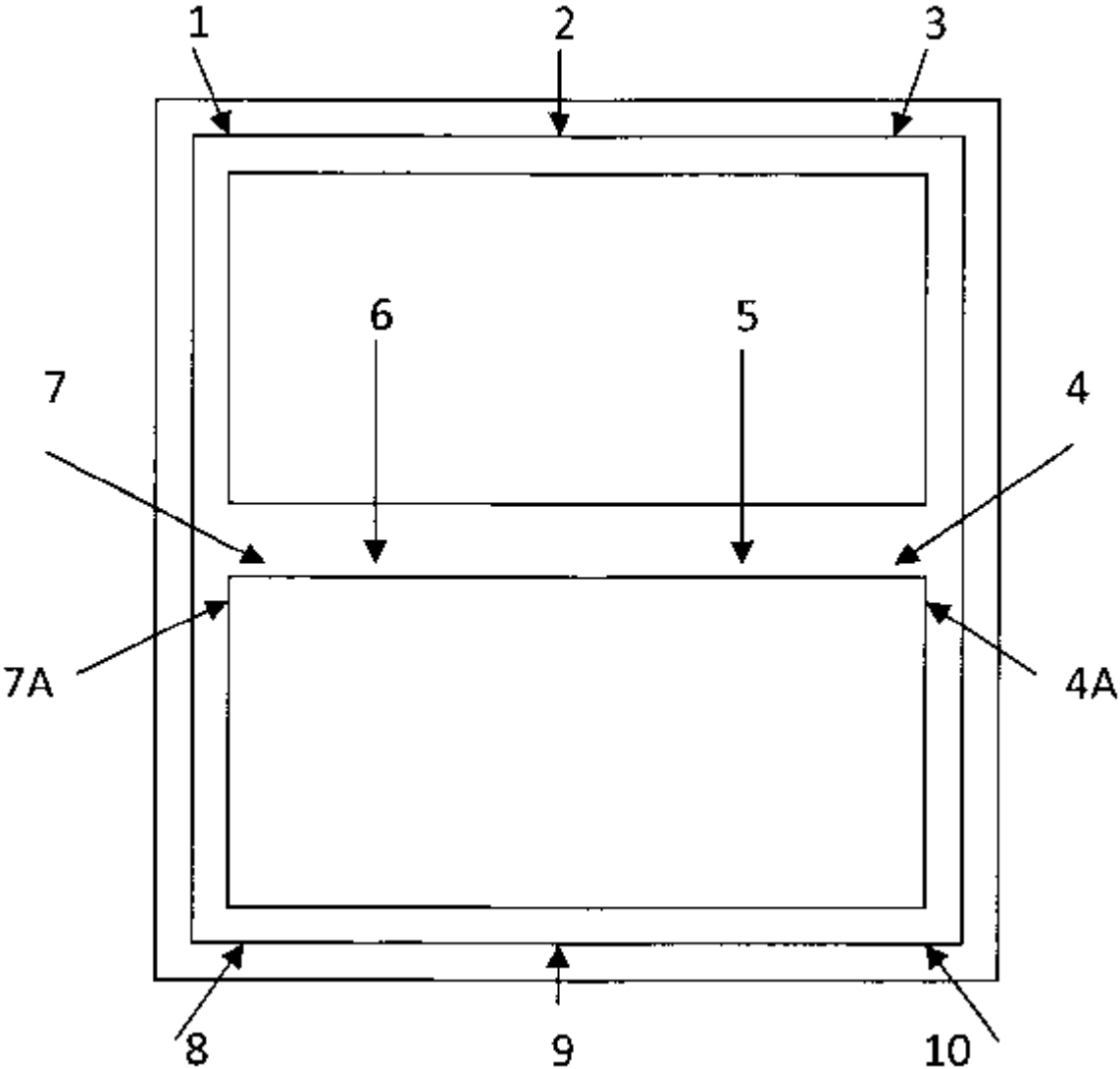
<u>Point</u>	<u>Tools Used</u>	<u>Attack Method/Area</u>	<u>Time</u>
1	Paint Scrapper & Small Screwdriver	Attempt to release balance rods	3 mins
2	Small Screwdriver & Craft Knife	Attempt to expose upper corner sash by slicing away outer frames then manipulate sash with screwdriver	3 mins
3	Paint Scrapper & Small Screwdriver	Attempt to disengage L/H sash interlock	3 mins















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## Mechanical Test Result

The sample was mounted vertically in the test rig as shown before and the test was carried out in accordance with the specified requirements. The table below shows the results of the test that was put on various points of the window.

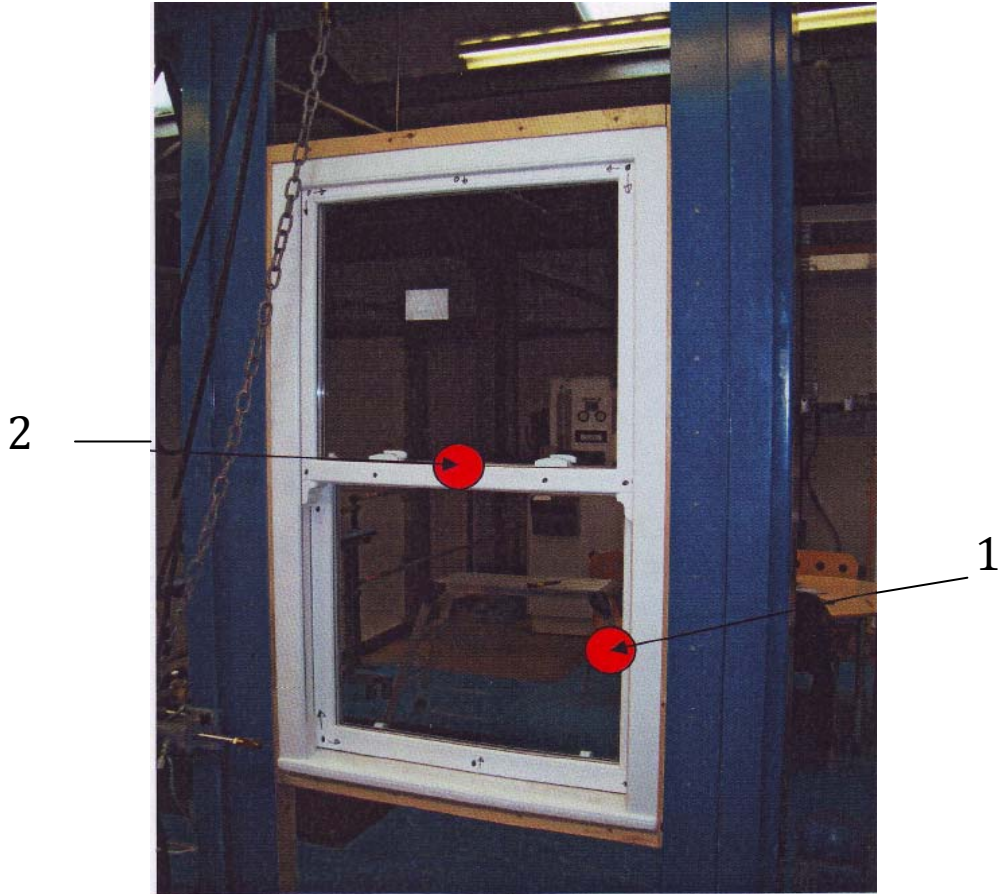


<u>Loading Point</u>	<u>Load Direction</u>	<u>Parallel-to-plane Load Applied Load (kN)</u>	<u>Perpendicular-to-plane Load Applied Load (kN)</u>	<u>Duration (S)</u>	<u>Results &amp; Observations</u>
1		1kN	3kN	10	PASS
1		3kN	1kN	10	PASS
2		3kN	N/A	10	PASS
3		3kN	1kN	10	PASS
3		1kN	3kN	10	PASS
4	Pulled apart in opposite directions	N/A	3kN	10	PASS
4A		1kN	3kN	10	PASS
5	Pulled apart in opposite directions	N/A	3kN	10	PASS
6	Pulled apart in opposite directions	N/A	3kN	10	PASS
7	Pulled apart in opposite directions	N/A	3kN	10	PASS
7A		1kN	3kN	10	PASS
8		3kN	1kN	10	PASS
8		1kN	3kN	10	PASS
9		3kN	N/A	10	PASS
10		1kN	3kN	10	PASS
10		3kN	1kN	10	PASS

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## Manual Test Result

The sample was mounted vertically in the test rig as shown before and the test was carried out in accordance with the specified requirements and using the tools listed below. NO entry was gained at this stage and so the product has PASSED the specific requirements.



<u>Point</u>	<u>Tools Used</u>	<u>Time</u>
1	Screwdriver & Nail Bar	1½ mins
2	Screwdriver & Nail Bar	1½ mins