

related test method	<b>EN 1634-1 Fire Resistance tests for door and shutter assemblies Part 1: Fire doors and shutters</b>
subject	<b>Field of direct application from testing double leaf fire doors and permitted increase / decrease of size of leaves without change in overall size</b>
reference of original query	TC2 N306rev1 Helpdesk 2003-01

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**Problem**

The standard is unclear about how to interpret the field of direct application for a test specimen being evaluated when the sponsor wishes to change the size of individual leaves in a double leaf doorset without changing the overall doorset dimension.

The standard does not state if such changes for double leaf doors would be relative the overall door size, to the dimensions of one or both of the leaves or to both overall size and leaf sizes.

**Recommendation**

In defining the field of direct application of double leaf doors according to §13.3 of EN 1634-1: 1999 the following rules shall be followed:

**For category A double leaf doors:**

Size increase is not permitted therefore the field of direct application shall be that as tested.

Reduction in size is permitted and the field of direct application stated shall be the door as tested modified according to the permitted size changes given in §13.3 of the standard.

**For category B double leaf doors:**

Variation of the size of the leaves (increase and decrease) is permitted and the (%) changes stated in the field of direct application shall be relative to both the overall door size tested and the individual size of the door leaves tested. The % changes permitted for both overall door size and individual leaf sizes shall be as defined in §13.3 of the standard.

*Example 1 [Tested overall dimensions maintained – leaves varied in size] :*

*Double leaf door overall dimensions: 1600 mm wide (800 mm each leaf)*



*Permitted size increase one leaf: increased 15 % 800 mm (120 mm) to 920 mm.  
Therefore, 2<sup>nd</sup> leaf decreased -15% 800 mm (-120 mm) to 680 mm.*

*The 20 % area variation must still be respected.*

*Example 2 [Tested overall dimensions increased according to §13.3 – leaves varied in size]*

*Double leaf door overall dimensions increased 15%: 1840 mm wide (920 mm each leaf)*

*Permitted size increase one leaf: increased 15 % 920 mm (138 mm) to 1058 mm.*

*Therefore, 2<sup>nd</sup> leaf decreased -15% 920 mm (-138 mm) to 782 mm.*

*The 20 % area variation must still be respected.*

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