

Test Certificate

No. 201001E-007

Produkt: **Stability Evidence Test, Partition Wall System 1500**
Hinged Door with 45 mm Frame

Stability testing of a light interior partition wall (width 5,00 m, height 2,75 m).

The wall tested consisted of an aluminium-frame-construction including 5 elements (3 x fix elements each 2,75 m x 1,20 m, 1 x fix element 2,75 m x 0,25 m with profiles vertically arranged between the elements: element infill = 6 mm-thick VSG-glass and 1 hinged door 2,75 m x 1,02 m = material: 8 mm ESG-glass). This experiment intends to check the wall (test specimen) for structural damage and functional failure by hitting it with a flexible body weight of 50 kg (sack filled with glass balls Ø approx. 450 mm, paragraph 6.4.1.1 of the ETAG 003).

All tests have been controlled in the raumplus test center January 14, 2010.

Processing Parameters:

Pendulum body:	50 kg sack	(according to ISO 7892)	
Impact height	1,50 m		
Pendulum height of fall:	Category I	small risk of accident /risk of abuse	= 1,70 m
	Category II	medium risk of accident /risk of abuse	= 1,91 m
	Category III	risk of accident / risk of abuse	= 2,11 m
	Category IV	same as category II and III, additional risk of fall down to the level below.	
			= 2,32 m

Criteria: No penetration, no crash
no other dangerous failure

Room temperature: 22°C (45 % absolute humidity)

The actual pendulum height of fall and thus also the shock load have been chosen according to the intended use (category) of the partition wall. Tested categories: I, II and III

The pendulum hit the wall at two points (see drawing) with the following results:

Post between fix element 3 and 4

Category I	requirement of structural damage and functional failure	satisfied
Category II	requirement of structural damage and functional failure	satisfied
Category III	requirement of structural damage and functional failure	satisfied

Corner profile between hinged door and fix element 3

Category I	requirement of structural damage and functional failure	satisfied
Category II	requirement of structural damage and functional failure	satisfied
Category III	requirement of structural damage and functional failure	satisfied

The requirements of the partition wall system and hinged door for structural damage and functional failure (crash test with a 50 kg sack filled with glass balls) according to all above mentioned categories (ETAG 003) have entirely been fulfilled.

approved by i. V. 
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