

Doco International B.V.  
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Nederländerna

## Measuring of resistance to wind load, by four point bending test

**Table 1** Summary of test results of resistance to wind load of Doco International B.V. door panels.

Door Panels	Wind load		Maximum press. [Pa]	Remarks/Fracture
	class	[Pa]		
Tecsedo strut 120 length 8.5 m	2	615	831	BoP center
Tecsedo strut 67 length 6.0 m	3	760	1 025	BoP point of loading

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Door Panels	Wind load		Maximum press. [Pa]	Remarks/Fracture
	class	[Pa]		
Tecsedo length 5.0 m	2	625	844	BoP close to point of loading

## 1 Introduction

SP has been commissioned by Doco International B.V. to perform wind load tests on door panels.

Place of testing                      Laboratory of SP Building and Mechanics

Test date                                2013-02-11--2013-02-15

## 2 Tested objects

The tested objects consist of door panels according to Table 2. The client selected the test specimens without assistance from SP.

**Table 2      Description of the tested door panels.**

Door Panels	Width mm	Height mm
Tecsedo strut 120 length 8.5 m	8500	610

Tecsedo strut 67 length 6.0 m	6000	610
Tecsedo strut 81 length 7.5 m	7500	610
Tecsedo length 5.0 m	5000	610

### 3 Test performance

The door panels were subjected to four point bending and tested in accordance with *EN 12444 Resistance to wind load – testing and calculation*. The load was applied as shown in Figure 1. The loading points were symmetrical positioned in the test set-up. The distance between the loading points was half of the distance between the points of support.

The applied load was increased in steps in accordance with the different classes given in *EN 12424 Resistance to wind load – classification*. After each step the deflection of the door panels was measured. The test was performed at ambient temperature.