

# Airflow resistance in the sense\* of EN 29053 (ISO 9053)

## Measurement of specific airflow resistance

A 03-2 E

**Test subject:**

Name: CALVARO Col. 319  
 Description: furnishing fabric, 100% PLF TREVIRA CS  
 Manufacturer: création baumann Weberei und Färberei AG  
 CH-4901 Langenthal  
 Client of measurement: manufacturer



**Measurement conditions:**

Standard: EN 29053: Materials for acoustical applications; Determination of airflow resistance (ISO 9053)  
 Method: direct-airflow method, measurement at 10 different airflow velocities and extrapolation to an airflow velocity of 0,5 mm/s  
 Specimen holder: round, diameter 99,5 mm  
 Temperature: 21 °C  
 Relative humidity: 62 %  
 Date of measurement: 2012-09-26

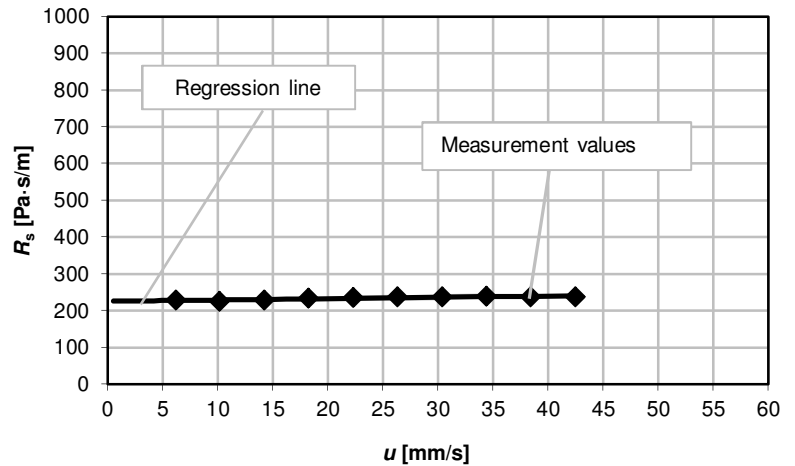
**Specimen:**

Number of specimen: 2 of 2  
 Diameter of specimen: 99,5 mm  
 Effective cross section: 77,76 cm<sup>2</sup>  
 Thickness of specimen: -  
 Measurement setup: specimen fit in specimen holder

\* required number of specimens according to EN 29053: 3 x 3 = 9

**Measurement result:**

	$u$	$\Delta p$	$R_s$
Measurement values	42,4	10,1	237,7
	38,4	9,2	238,4
	34,4	8,2	238,8
	30,4	7,2	238,2
	26,3	6,2	237,1
	22,3	5,2	235,4
	18,2	4,3	233,4
	14,2	3,3	229,7
	10,1	2,3	225,4
	6,1	1,4	228,4
Extrapolation	0,5		225,8



Airflow velocity  $u$  in mm/s  
 Pressure drop across the specimen  $\Delta p$  in Pa  
 Specific airflow resistance  $R_s$  in Pa·s/m

**Single value:** Specific airflow resistance  $R_s = 225,8 \text{ Pa·s/m}$

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