

# Evidence of Performance

## Airborne sound insulation of building elements

### Test Report 162 38222/ Z2e

This test report is a translation of Test Report 162 38222/Z2 dated 10th August 2009

Client **ALUMINCO S.A.**  
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#### Basis

EN ISO 140-1:1997+A1:2004  
EN 20140-3 :1995+A1:2004  
EN ISO 717-1 : 1996+A1:2006

#### Representation



Product	Casement door, double leaf, of overlapping design
System designation	System 420 thermo brake
External dimensions (W x H)	1730 mm x 2105 mm
Material	Aluminium profiles with thermal break
Type of opening	Active casement: turn, right Overlapping casement: turn, left
Rebate seals	1 rebate seal, 1 centre seal, 1 overlapping seal
Filling	Insulating glass unit , 8LSG/16/4
Special features	-/-

#### Instructions for use

This test report serves to demonstrate the sound insulation of building elements.

Applicable for Germany:

- $R_{w,R}$  as per DIN 4109:  
( $R_w$  corresponds to  $R_{w,P}$ ,  
 $R_{w,R} = R_{w,P} - 2$  dB)
- $R_{w,R}$  for "Bauregelliste"  
(Construction Products List)

#### Validity

The data and results given relate solely to the tested and described specimen.

Testing the sound insulation does not allow any statement to be made on further characteristics of the present structure regarding performance and quality.

#### Notes on publication

The ift Guidance Sheet "Conditions and Guidance for the Use of ift Test Documents" applies.

The cover sheet can be used as abstract.

#### Contents

The test report contains a total of 9 pages:

- 1 Object
  - 2 Procedure
  - 3 Detailed results
  - 4 Instructions for use
- Data sheet (1 page)

Weighted sound reduction index  $R_w$   
Spectrum adaptation terms C and  $C_{tr}$



$$R_w (C; C_{tr}) = 38 (-1; -5) \text{ dB}$$

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