

DELTA Test Report



Laboratory measurement of airborne sound insulation of a INWIDO Denmark A/S "coupled" side-hung construction with Float 6 mm glass in the external sash and a Float 3-14-5 argon filled insulating glass unit in the internal sash (Koblet Dannebrogsvindue 1 + 2 (6 – 26.5 / Fl3-14-5))

Performed for INWIDO Denmark A/S

DANAK 100/2331 Project no.: 117-26088 Page 1 of 12

31 October 2017

DELTA – a part of FORCE Technology Venlighedsvej 4 2970 Hørsholm Denmark

Tel. +45 72 19 40 00 Fax +45 72 19 40 01 www.delta.dk VAT No. 55117314

Title

Laboratory measurement of airborn sound insulation of a INWIDO Denmark A/S "coupled" side-hung construction with Float 6 mm glass in the external sash and a Float 3-14-5 argon filled insulating glass unit in the internal sash

Journal no.

DANAK 100/2331

Project no. 117-26088

Our ref. MBH/LSS/ILK Date of test 21 August 2017

Client

INWIDO Denmark A/S Fabriksvej 4 9640 Farsø

Client ref.

Jens Bo Nielsen

Laboratory

DELTA – a part of FORCE Technology Agro Food Park 13 8200 Aarhus N Denmark

Test conditions and referenced standards

Application rules for specific products:EN ISO 10140-1:2016Measurement of airborne sound insulation:EN ISO 10140-2:2010Measurement procedures and requirements:EN ISO 10140-4:2010Requirements for test facilities and equipment:EN ISO 10140-5:2010/Amd 1:2014Evaluation:EN ISO 717-1:2013Measurement uncertainty:EN ISO 12999-1:2014

Results

Airborne sound insulation measured in the laboratory, weighted sound reduction index according to EN ISO 717-1:2013:

 $R_w(C; C_{tr}) = 34(-2; -6) dB$

Graph Sheet no. 1 shows the sound reduction index of every one-third octave band in the frequency range 50-5000 Hz together with the shifted reference curve corresponding to the measured weighted sound reduction index. The one-third octave band values are shown both in tabular form and graphically. Additionally, the octave band values are calculated from the one-third octave bands in the frequency range 63-4000 Hz and are shown in tabular form.

List of annexes

Description of the test specimen:	See Annex A + B1-3
Mounting in the laboratory:	See Annex A
Measuring conditions and procedure:	See Annex C
Measurement uncertainty:	See Annex D
Measurements at low frequencies:	See Annex E
Measuring equipment:	See Annex F

Remarks

The test result applies to the tested specimen only.

DELTA - a part of FORCE Technology, 31 October 2017

Motion Min

Morten Bording Hansen Specialist, Acoustics

Lars S. Sprderpaard Lars Sommer Søndergaard

Lars Sommer Søndergaard Specialist, Acoustics