



# DELTA Test Report



  
TEST Reg. no. 100

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**Laboratory measurement of airborne sound insulation of a INWIDO Denmark A/S “coupled” side-hinged construction with Float 6 mm glass in the external sash and a Float 3-12-8 argon filled insulating glass unit in the internal sash  
(Koblet Dannebrogsvindue 1 + 2 (6 – 25.5 / FI3-12-8))**

**Performed for INWIDO Denmark A/S**

DANAK 100/2464

Project no.: 117-26088/118-36905

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23 January 2019

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**Title**

Laboratory measurement of airborne sound insulation of a INWIDO Denmark A/S “coupled” side-hinged construction with Float 6 mm glass in the external sash and a Float 3-12-8 argon filled insulating glass unit in the internal sash

<b>Journal no.</b>	<b>Project no.</b>	<b>Our ref.</b>	<b>Date of test</b>
DANAK 100/2464	117-26088/118-36905	MBH/LSS/TCAN/ilc	22 August 2017

**Client**

Inwido Denmark A/S  
Fabriksvej 4  
9640 Farsø  
Denmark

**Client ref.**

Henrik Søgaard Pedersen

**Laboratory**

DELTA – a part of FORCE Technology  
Agro Food Park 13  
8200 Aarhus N  
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**Test conditions and referenced standards**

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

$$R_w (C; C_{tr}) = 36 (-2; -6) \text{ dB}$$

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-B3
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, 23 January 2019



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