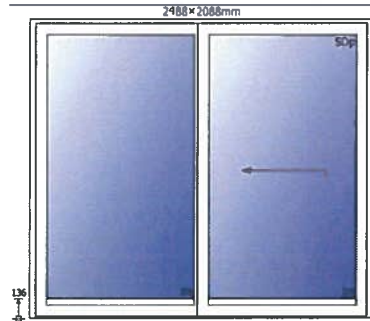


**Sound reduction index in accordance with PN - EN ISO 10140-2 (2011)**

Laboratory measurements of airborne sound insulation of building elements

Client: **NorDan AS**  
 Address: **Stasjonsveien 46, N-4460 Mio, Norway**  
 Test specimen: **Wooden Patio Door SD NTech 164mm**  
**Glazed: Støystopp 2s m/Energi VKS/Ar**  
**8,76ES+20G+8,38**  
**(Test 5.3)**

Measurement date: **27.02.2017**

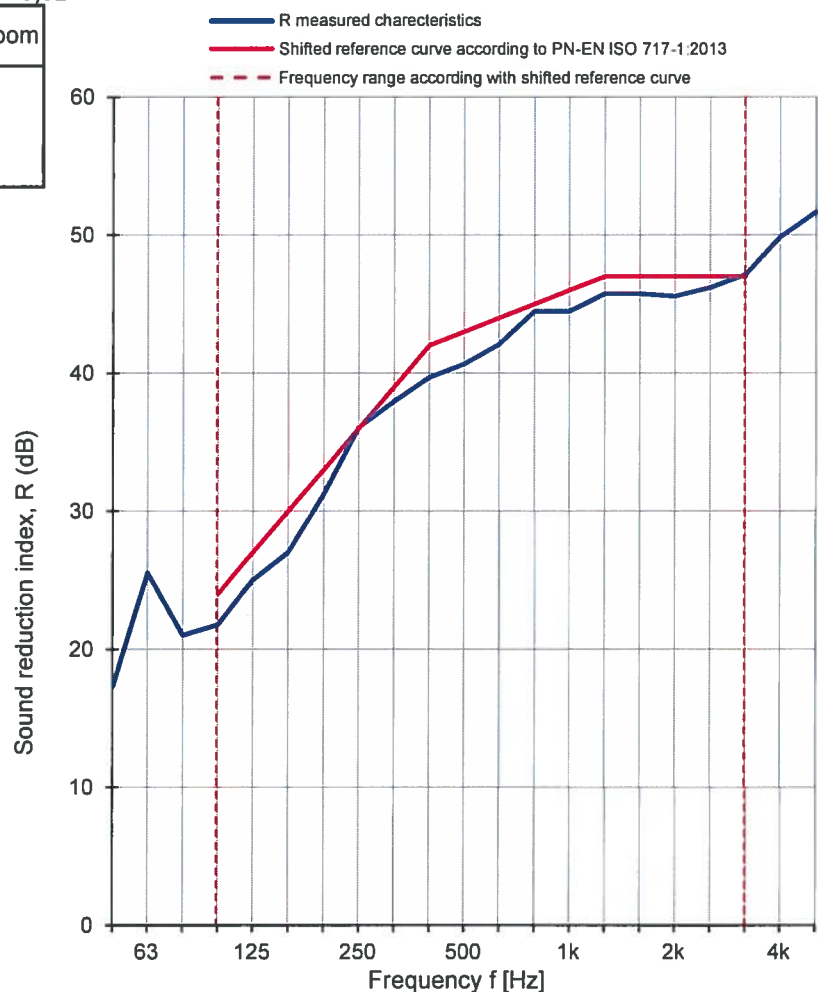
Description of the test facility, test specimen and test arrangement:

Size of test specimen: **2488 x 2088 mm**  
 Test specimen mounted by: **Gryfitlab Sp. z o.o.**  
 Mass per unit area: **kg/m<sup>2</sup>**  
 The surface area of test specimen: **5,32 m<sup>2</sup>**

Parameter	Receiving room	Source room
Air temp. [°C]	19,1	19,1
Humidity [%]	66	65
Pressure [hPa]	1004	1004
Volume [m <sup>3</sup> ]	372	324

Frequency [Hz]	Test results with uncertainty	
	R [dB]	U <sub>CR</sub> [dB]
50	17,3	4,2
63	25,5	3,1
80	21,0	3,0
100	21,7	3,2
125	25,0	2,2
160	27,0	2,5
200	31,2	2,0
250	36,1	2,2
315	37,9	2,0
400	39,7	2,0
500	40,6	1,9
630	42,1	1,9
800	44,5	1,9
1000	44,5	2,0
1250	45,7	1,9
1600	45,7	1,9
2000	45,6	1,9
2500	46,2	1,9
3150	47,1	2,0
4000	49,9	1,9
5000	51,7	2,0

Measurement uncertainty of sound reduction U<sub>CR</sub>  
 Confidence level 95% at coverage factor, k=2



Weighted sound reduction index in accordance with PN-EN ISO 717-1:2013

**R<sub>w</sub> (C; C<sub>tr</sub>) = 43 (-2; -6) dB**C<sub>50-3150</sub> = -2 dBC<sub>50-5000</sub> = -1 dBC<sub>100-5000</sub> = -1 dBC<sub>tr, 50-3150</sub> = -8 dBC<sub>tr, 50-5000</sub> = -8 dBC<sub>tr, 100-5000</sub> = -6 dB**R<sub>w</sub> = 43,5 dB**

GRYFITLAB Sp. z o.o. Laboratory of Acoustics

No. of test specimen: GLA-1305.12/17

Date: 27.02.2017

Signature: Robert Dybicz