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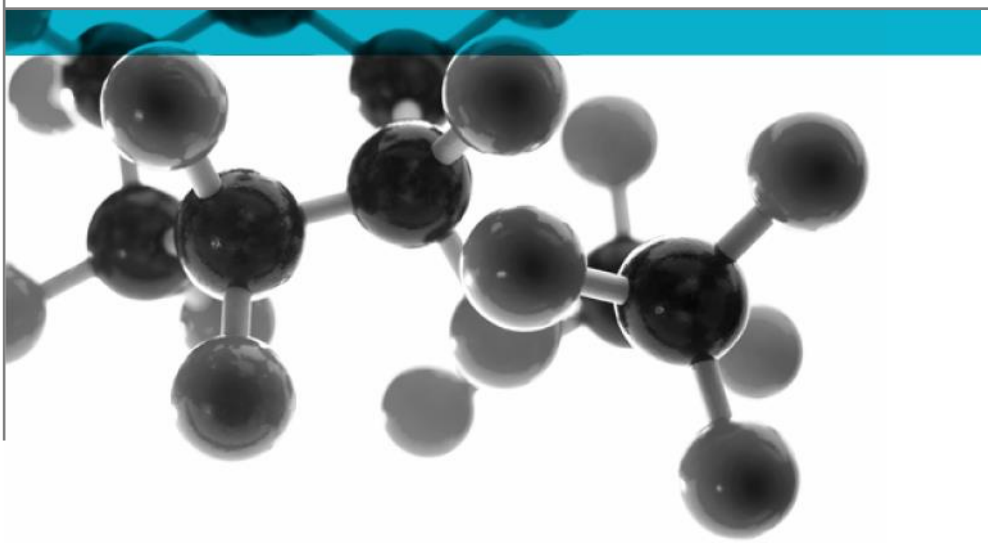
Testing, calibrating, advising.

BS EN ISO 10140-2:2010



Test of: Sealants / Compounds

Acoustics - Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation

Date: 03/10/2017

Copy: 1

Issue No.: 1

A Report To:
Wurth Oy
Hyvinkääntie 1,
11710 Riihimäki
Finland

Document Reference:
WYC385361/AR1

The details of the sponsor of test report WYC385361 are held on file by Exova. This report is additional to that issued as WYC385361 and dated 15th September 2017. The original report shall remain valid and is not replaced by the additional report.

Contents

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Summary of Performance

The following performance was achieved from the specimens tested. Full details of the testing and specimen construction are described in the report.

SLM Test Ref.	Product Name	Product Type	Test Description	Full Partition 14m² Test Result (R_w (C;C_{tr}))	Small Technical Size 1.9m² Test Result (R_w (C;C_{tr}))	D_{new} Test Result (D_{new} (C;C_{tr}))
P003	Partition Wall	N/A	Test of Partition wall. See Appendix 2 for construction detail	62 (-1;-6) dB	53 (-1;-5) dB	61 (-1;-6) dB
P004	Partition Wall	N/A	Test of partition wall with aperture for sealants not filled in	17 (0;0) dB	8 (0;0) dB	15 (1;0) dB
P005	Sealfire W150	Sealants	Sealfire W150. 50mm wide x 25mm thick (no backing material)	56 (0;-3) dB	47 (0;-3) dB	55 (1;-4) dB
P006	Sealfire W150	Sealants	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette	56 (-1;-4) dB	47 (-1;-3) dB	54 (0;-3) dB
P007	Sealfire W100	Sealants	Sealfire W100. 50mm wide x 25mm thick (no backing material)	59 (-1;-4) dB	50 (0;-5) dB	58 (-1;-5) dB
P008	Sealfire W200	Sealants	Sealfire W200. 50mm wide x 25mm thick (no backing material)	58 (-1;-5) dB	49 (-1;-4) dB	57 (-1;-6) dB
P009	Sealfire W200	Sealants	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)	59 (-1;-5) dB	50 (-1;-5) dB	58 (-1;-5) dB
P010	Sealfire W250	Sealants	Sealfire W250. 50mm wide x 25mm thick (no backing material)	58 (0;-4) dB	50 (-1;-5) dB	57 (-1;-5) dB
P012	Sealfire W100	Sealants	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material	59 (-2;-6) dB	50 (-1;-6) dB	57 (-1;-6) dB
P013	Sealfire W150	Sealants	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing	58 (-1;-4) dB	49 (-1;-4) dB	57 (-1;-5) dB
P014	Sealfire W200	Sealants	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material	56 (-1;-5) dB	47 (-1;-4) dB	54 (-1;-4) dB
P015	Sealfire W200	Sealants	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing	60 (-1;-6) dB	51 (-1;-6) dB	59 (-2;-7) dB
P016	Sealfire W250	Sealants	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material	56 (0;-3) dB	48 (-1;-4) dB	55 (0;-4) dB

Test No.	Product Name	Product Type	Test Description	Full Partition 14m² Test Result (R_w (C;C_{tr})	Small Technical Size 1.9m² Test Result (R_w (C;C_{tr})	D_{new} Test Result (D_{new} (C;C_{tr})
P017	Sealfire W250	Sealants	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	57 (-1;-4) dB	48 (0;-4) dB	56 (-1;-5) dB
P018	Sealfire W100	Sealants	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	57 (0;-4) dB	49 (-1;-5) dB	56 (0;-4) dB
P019	50mm Sealfire W1000 Compound	Compounds	50mm thick Sealfire W1000 Compound	47 (-1;-3) dB	38 (0;-2) dB	45 (0;-2) dB
P020	50mm Sealfire W1000 Compound	Compounds	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	57 (-1;-5) dB	48 (-1;-4) dB	55 (0;-4) dB
P022	50mm Sealfire W1000 Compound	Compounds	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	53 (0;-4) dB	44 (0;-3) dB	52 (-1;-4) dB
P023	100mm Sealfire W1000 Compound	Compounds	100mm thick Sealfire W1000 Compound	50 (0;-2) dB	42 (-1;-3) dB	49 (0;-2) dB
P024	90mm Sealfire W1000 Compound	Compounds	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	57 (0;-3) dB	48 (0;-3) dB	56 (-1;-4) dB
P025	90mm Sealfire W1000 Compound	Compounds	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	56 (0;-3) dB	47 (0;-3) dB	54 (0;-3) dB
P026	150mm Sealfire W1000 Compound	Compounds	150mm thick Sealfire W1000 Compound	54 (0;-3) dB	45 (0,-2) dB	53 (-1;-3) dB

1 Introduction

The test specimen was supplied by the sponsor and delivered to EXOVA on 12 June 2017.

The material which were tested have been independently sampled with details of the sampling held on file.

The specimen was installed into a timber stud partition within the test chamber by Exova.

Test Details

The specimen was tested to BS EN ISO 10140-2:2010 Acoustics - Laboratory measurement of sound insulation of building elements. Measurement of airborne sound insulation

Testing was conducted at Exova, Chiltern House, Stocking Lane, Hughenden Valley, Buckinghamshire. HP14 4ND on the 12 July 2017.

For details of the testing, please see Section 3, Methodology.

Supporting Construction Description

The partition consisted of two wall leaves separated by a 400mm air gap. Each wall leaf was constructed of nominal 45mm x 90mm softwood studs at 600mm centres with three layers of 15mm plasterboard on the source room face and two layers of plasterboard on the receive room face. The stud wall cavities were filled with 100mm thick Rockwool insulation.

Specific small-sized test opening

The specific small-sized test opening measured 1250mm wide x 1500mm high. This was integral to the supporting construction as per BS EN ISO 10140-5, clause 3.3.3. See Appendix 5, Exova drawings of wall construction and test set up, for details.

2 See Appendix 1 for Specimen Technical Details

3 Methodology

Airborne Sound Insulation Test

- The loudspeakers were placed in the corners of the source room
- The sound level meter was calibrated prior to testing.
- 5 measurements were taken in the source room, at fixed positions.
- 5 measurements were taken in the receive room at fixed positions.
- Background measurements were taking at each third octave frequency between 50Hz and 5000Hz.
- 6 Reverberation measurements were taken in the receive room, in accordance with BS EN ISO 3382-2:2008 interrupted, engineering method.
- Calculations, including C & C_{tr}, were carried out in accordance with BS EN ISO 717-1

- The sound reduction index was calculated using the following formula from BS EN ISO 10140-2:2010:

$$R_w = L1 - L2 + 10Log\left(\frac{S}{A}\right)\ dB$$

Where:

L1 is the logarithmic average of the source room measurements
L2 is the logarithmic average of the receive room measurements
S is the area of the test specimen
A is the equivalent absorption area, where $A = \frac{0.16V}{T}$

Where:

V = The volume of the receive room
T = the reverberation time measured in seconds

1. Logarithmic average of 5 Measurements (L1 & L2)
2. Deduction of L1s from L2s
3. Area of test specimen (S) divided by equivalent sound absorption area (A)
4. Weighted Final Result R_w dB

Test Equipment

Equipment	Equipment reference number
Bruel & Kjear Sound Level Meter (Type 2270)	ACT-009
Bruel & Kjear Microphones (Type 4189)	ACT-010 & ACT-016
Bruel & Kjear Calibrator (Type 4231)	ACT-011
Amplifiers	ACT-007 & ACT-049
Noise Generators	ACT-008 & ACT-009
Loudspeakers (EV ZX1-90PA)	ACT-006, ACT-021, ACT-022
Graphic Equaliser (DBX Dual Channel)	ACT-023

4 Parameters & Limitations

Parameters

The test fulfilled all criteria required of ISO 10140-2, including:

- Sound level meter (microphone) was located as required
- Sound sources (loudspeakers) were located as required
- Reverberation Time readings were greater than 20dB but not so large that the observed decay cannot be represented by a straight line.
- Background noise measurements were 10dB below L2 measurements.
- Temperature was reported to within ± 0.1°C
- Barometric pressure was reported to within ± 0.01 Mbar (±1 Pa)
- Humidity was reported to within ± 1%
- Frequencies 50Hz, 63Hz and 80Hz are outside of our UKAS accreditation, and are for reference only. These frequencies do not affect the over R_w figure.
- R'_{max} of the test chambers was measured to be 62dB
- The test chambers are two cuboid rooms 5.49m wide and a ceiling height of 2.58m, volumes of chambers for testing are reported with the individual test data

Limitations

- The results only relate to the behaviour of the specimen submitted for test, as described in the Technical Specification (Section 2), and under the particular conditions of test.
- The results are not intended to be the sole criteria for assessing the acoustic performance of the element in use nor do they necessarily reflect the actual behaviour once installed on site.
- The specification and interpretation of test methods are the subject of ongoing development and refinement. Changes in associated legislation may also occur. For these reasons it is recommended that the relevance of test reports over 5 years old should be considered by the user. EXOVA will be able to offer a review of the procedures adopted for a particular test to ensure that they are consistent with current practices.
- The results are solely for use by the sponsor and the stated purpose.
- The sponsor cannot rely on information provided without consent from EXOVA.
- Any recommendations are specific to the assignment and the sponsor.
- Extracts from the report are not permitted.

5 Authorisation

	Issued by:	**Authorised by:**
Signature:		
Name:	Lee Grant-Riach	Martin Durham
Title:	Senior Technical Officer	Lab Manager
Date of Issue	3rd October 2017	

Appendix 1 – Specimens Technical Data Details

- **Sealfire W100** - a quality fire resistant waterborne acoustic sealant designed for internal use where low movement fire resistant and/or acoustic joints are required or to seal around pipe and cable service penetrations through walls and floors.

- **Sealfire W200** - a one part fire resistant neutral curing silicone sealant with excellent acoustic performance. It is designed for internal or external use wherever flexible fire resistant and/or acoustic joints are required or to seal around pipe and cable service penetrations.

- **Sealfire W250** - a one part fire resistant water based silicone sealant with excellent acoustic performance. It is designed for internal or external use wherever flexible fire resistant and/or acoustic joints are required or to seal around pipe and cable service penetrations.

- **Sealfire W150** - a one part intumescent acrylic sealant which in fire conditions expands with high pressure to seal openings in fire compartmenting structure when penetrated by small plastic pipes, metal pipes with combustible insulation and bunched cables.

- **Sealfire W1000 Compound** - a single pack material that, when mixed with water, provides a fire resistant smoke stop seal able to reinstate the fire resistance of separating walls and floors when penetrated by a wide range of building services.

Appendix 2 – Summary of Results & Test Data Sheets – Full Wall Partition 14.2m2 (22 Pages)

Product Type	Sealants / Compounds

Data Sheet Ref.	**Variations**		**Test Result R_w ($C;C_{tr}$)**
WYC385361/AR1/P003	Test Description	Test of Partition wall. See Appendix 5 for construction detail	62 (-1;-6) dB
WYC385361/AR1P004	Test Description	Test of partition wall with aperture for sealants not filled in	17 (0;0) dB
WYC385361/AR1/P005	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material)	56 (0;-3) dB
WYC385361/AR1/P006	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette	56 (-1;-4) dB
WYC385361/AR1/P007	Test Description	Sealfire W100. 50mm wide x 25mm thick (no backing material)	59 (-1;-4) dB
WYC385361/AR1/P008	Test Description	Sealfire W200. 50mm wide x 25mm thick (no backing material)	58 (-1;-5) dB
WYC385361/AR1/P009	Test Description	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)	59 (-1;-5) dB
WYC385361/AR1P010	Test Description	Sealfire W250. 50mm wide x 25mm thick (no backing material)	58 (0;-4) dB
WYC385361/AR1/P012	Test Description	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material	59 (-2;-6) dB
WYC385361/AR1/P013	Test Description	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing	58 (-1;-4) dB
WYC385361/AR1/P014	Test Description	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material	56 (-1;-5) dB
WYC385361/AR1/P015	Test Description	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing	60 (-1;-6) dB
WYC385361/AR1/P016	Test Description	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material	56 (0;-3) dB
WYC385361/AR1/P017	Test Description	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	57 (-1;-4) dB
WYC385361/AR1/P018	Test Description	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	57 (0;-4) dB
WYC385361/AR1/P019	Test Description	50mm thick Sealfire W1000 Compound	47 (-1;-3) dB
WYC385361/AR1/P020	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	57 (-1;-4) dB
WYC385361/AR1/P022	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	53 (0;-4) dB
WYC385361/AR1/P023	Test Description	100mm thick Sealfire W1000 Compound	50 (0;-2) dB
WYC385361/AR1/P024	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	57 (0;-3) dB
WYC385361/AR1P025	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	56 (0;-3) dB
WYC385361/AR1/P026	Test Description	150mm thick Sealfire W1000 Compound	54 (0;-3) dB

Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Test of Partition wall. See Appendix 2 for construction detail

For detailed technical specification, please refer to Section 2 of the report

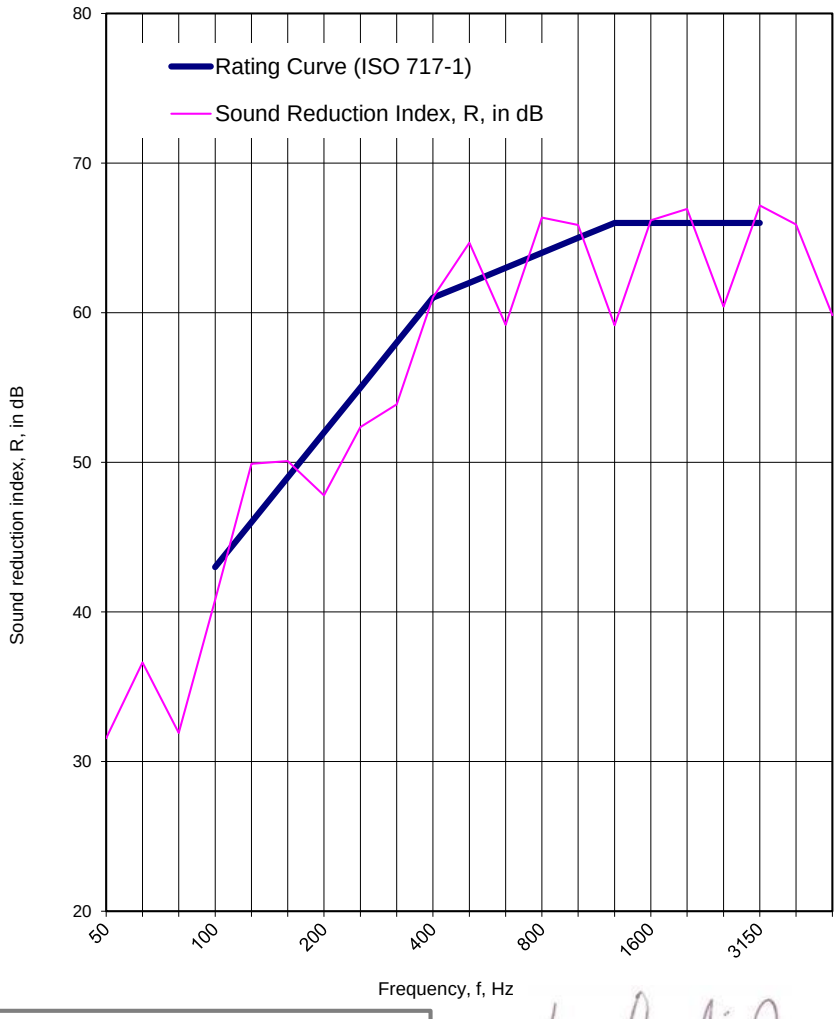
Data sheet Ref. WYC385361/AR1/P003

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		31.6
63+		36.6
80+		31.9
100		40.8
125		49.9
160		50.1
200		47.8
250		52.4
315		53.9
400		61.0
500		64.7
630		59.2
800		66.4
1000		65.9
1250		59.2
1600		66.2
2000		66.9
2500		60.4
3150		67.2
4000		65.9
5000		59.8
AAD		-29.4

Frequency range for rating in accordance with ISO 717-1



R_w =	**62 dB**	$C_{(50-3150)}$ =	-3	dB	$C_{tr\ (50-3150)}$ =	-12	dB
R_w+C =	**61 dB**	$C_{(50-5000)}$ =	-3	dB	$C_{tr\ (50-5000)}$ =	-12	dB
R_w+C_{tr} =	**56 dB**	$C_{(100-5000)}$ =	-1	dB	$C_{tr\ (100-5000)}$ =	-6	dB

Lee Grant-Riach
Senior Technical Officer

+ indicates that the frequency is outside of our UKAS accreditation and is for information only

Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Test of partition wall with aperture for sealants not filled in

For detailed technical specification, please refer to Section 2 of the report

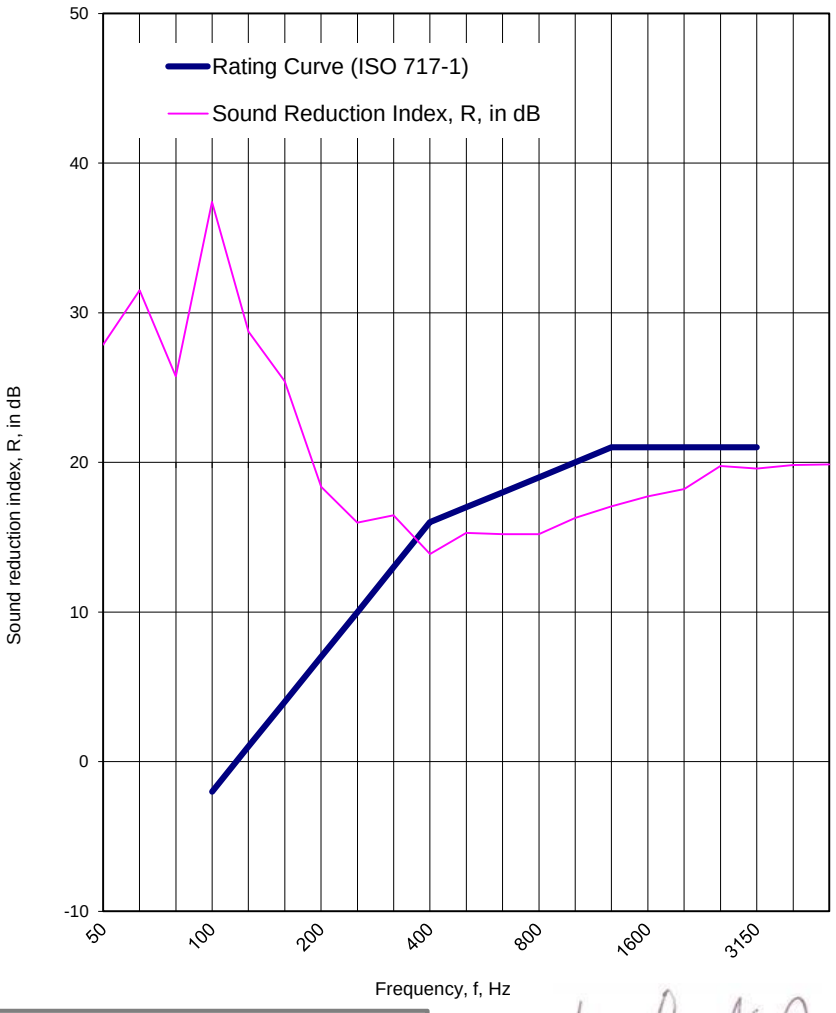
Data sheet Ref. WYC385361/AR1/P004

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		R ,dB
50+		27.9
63+		31.5
80+		25.7
100		37.4
125		28.7
160		25.4
200		18.4
250		16.0
315		16.5
400		13.9
500		15.3
630		15.2
800		15.2
1000		16.3
1250		17.1
1600		17.7
2000		18.2
2500		19.8
3150		19.6
4000		19.8
5000		19.9
AAD		-26.8

Frequency range for rating in accordance with ISO 717-1



R_w =	**17 dB**	$C_{(50-3150)}$ =	0 dB	$C_{tr\ (50-3150)}$ =	-1	dB
R_w+C =	**17 dB**	$C_{(50-5000)}$ =	1 dB	$C_{tr\ (50-5000)}$ =	-1	dB
R_w+C_{tr} =	**17 dB**	$C_{(100-5000)}$ =	1 dB	$C_{tr\ (100-5000)}$ =	-1	dB

Lee Grant-Riach
Senior Technical Officer

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

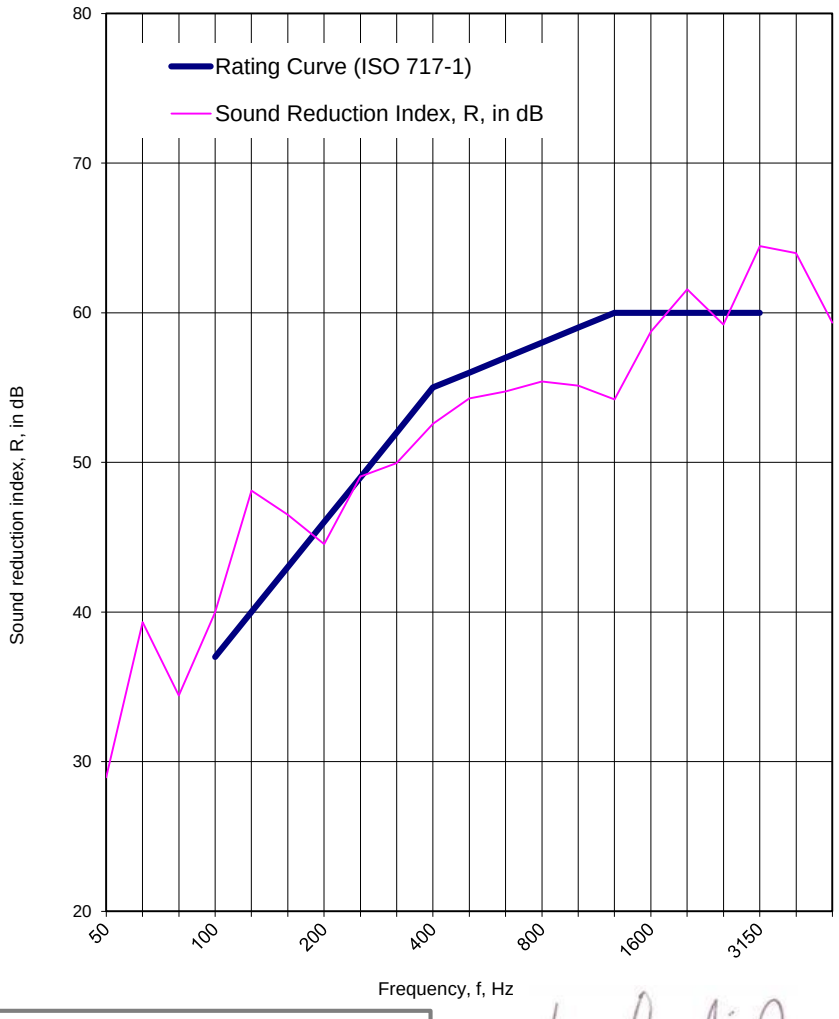
Data sheet Ref. WYC385361/AR1/P005

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		28.9
63+		39.3
80+		34.4
100		40.0
125		48.1
160		46.5
200		44.5
250		49.1
315		49.9
400		52.6
500		54.3
630		54.7
800		55.4
1000		55.1
1250		54.2
1600		58.7
2000		61.6
2500		59.2
3150		64.5
4000		64.0
5000		59.3
AAD		-24.3

Frequency range for rating in accordance with ISO 717-1



R_w =	**56 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7	dB
R_w+C =	**56 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7	dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4	dB

Lee Grant-Riach
Senior Technical Officer

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette

For detailed technical specification, please refer to Section 2 of the report

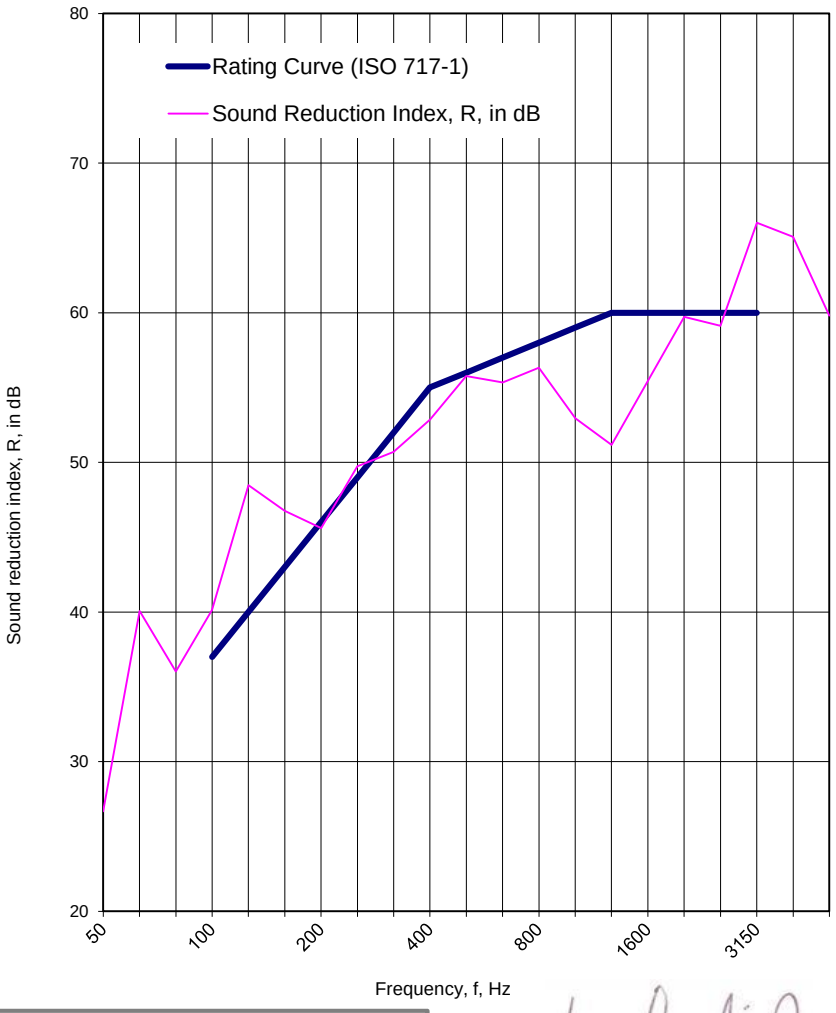
Data sheet Ref. WYC385361/AR1/P006

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB	
50+		26.7
63+		40.1
80+		36.0
100		40.1
125		48.5
160		46.8
200		45.6
250		49.7
315		50.7
400		52.9
500		55.8
630		55.3
800		56.3
1000		52.9
1250		51.2
1600		55.4
2000		59.7
2500		59.1
3150		66.0
4000		65.1
5000		59.8
AAD		-28.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**56 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	**55 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	**52 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

Lee Grant-Riach
Senior Technical Officer

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W100. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

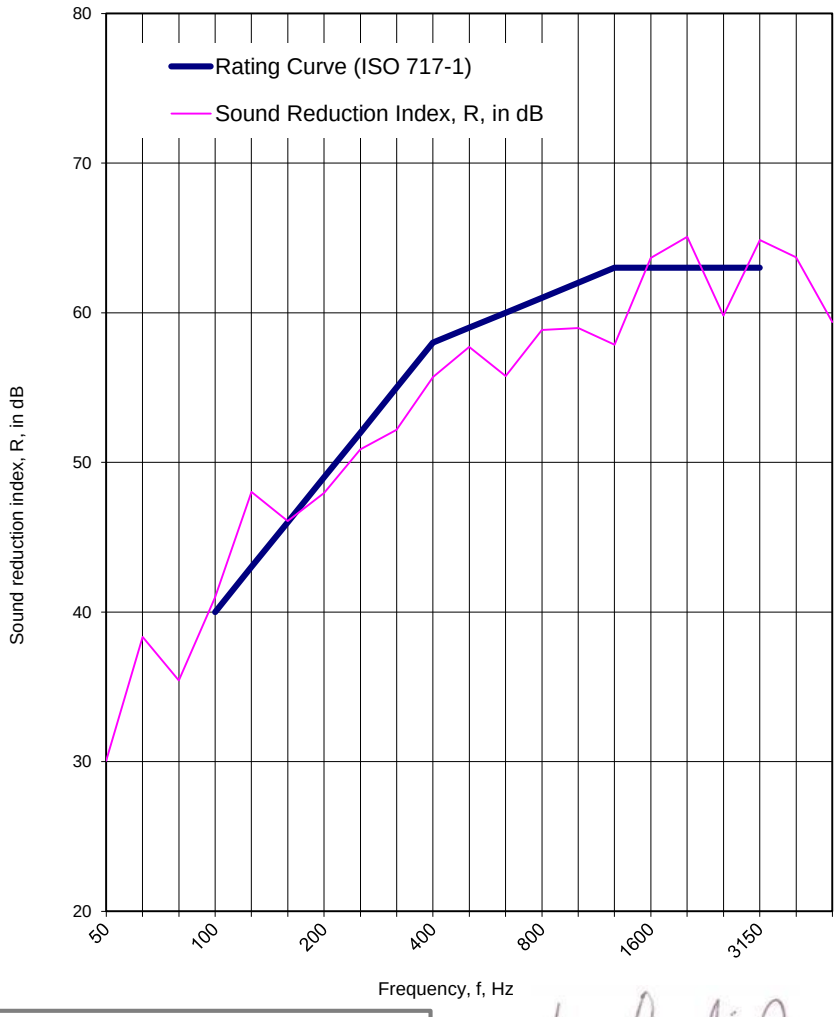
Data sheet Ref. WYC385361/AR1/P007

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R* ,dB	
50+		30.1
63+		38.3
80+		35.4
100		41.0
125		48.0
160		46.1
200		48.0
250		50.9
315		52.2
400		55.7
500		57.7
630		55.8
800		58.8
1000		59.0
1250		57.9
1600		63.7
2000		65.1
2500		59.8
3150		64.8
4000		63.7
5000		59.4
AAD		-26.3

Frequency range for rating in accordance with ISO 717-1



R_w =	**59 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**58 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**55 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

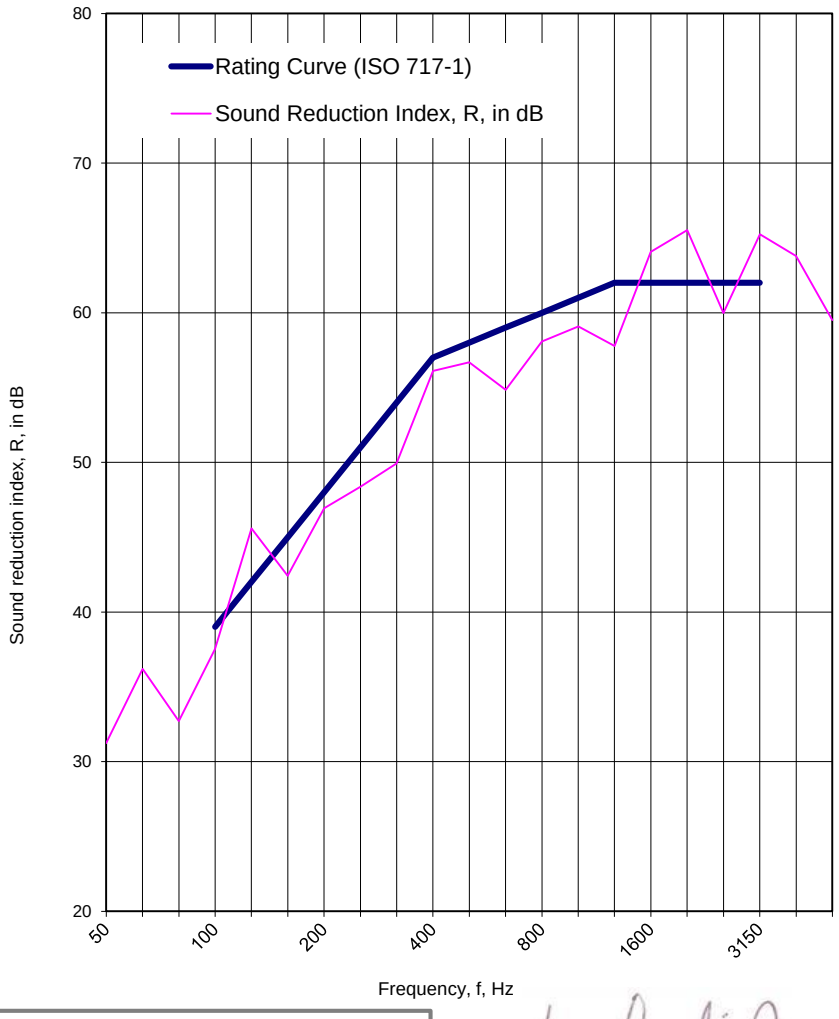
Data sheet Ref. WYC385361/AR1/P008

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB	
50+		31.2
63+		36.2
80+		32.7
100		37.5
125		45.6
160		42.4
200		46.9
250		48.4
315		49.9
400		56.1
500		56.7
630		54.9
800		58.1
1000		59.1
1250		57.8
1600		64.1
2000		65.5
2500		60.0
3150		65.2
4000		63.8
5000		59.5
AAD		-28.3

Frequency range for rating in accordance with ISO 717-1



R_w =	**58 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**57 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-6 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)

For detailed technical specification, please refer to Section 2 of the report

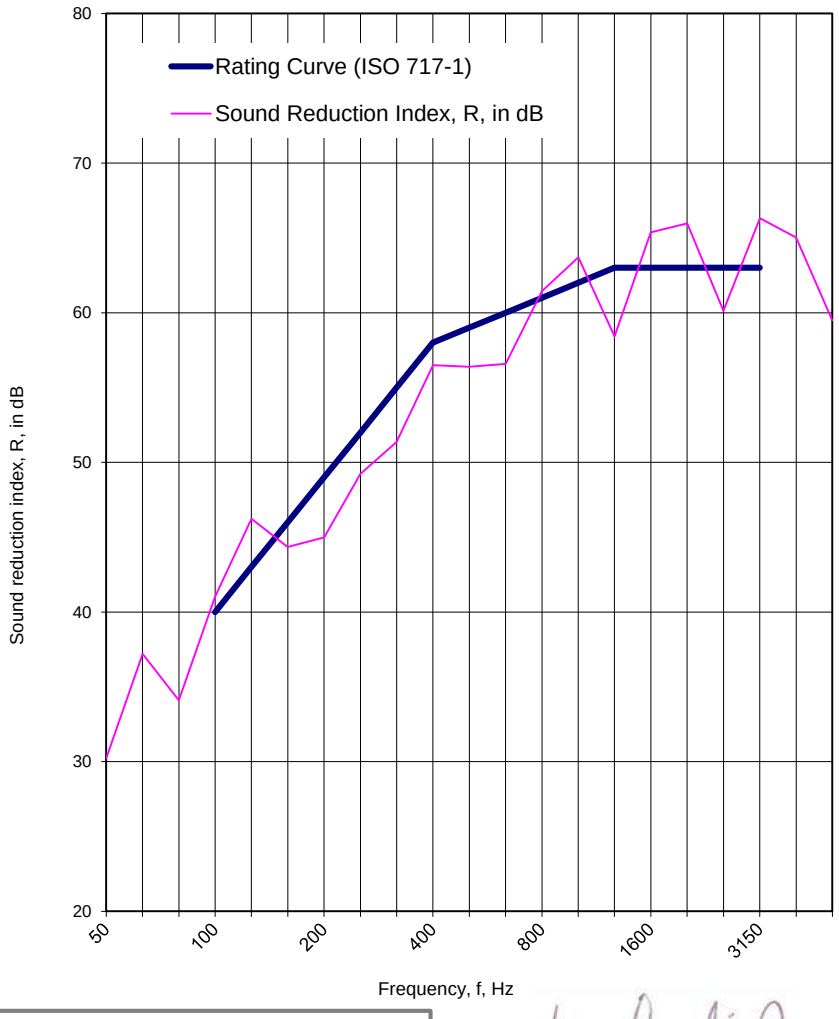
Data sheet Ref. WYC385361/AR1/P009

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		30.2
63+		37.2
80+		34.1
100		41.0
125		46.2
160		44.3
200		45.0
250		49.2
315		51.4
400		56.5
500		56.4
630		56.6
800		61.4
1000		63.7
1250		58.4
1600		65.4
2000		66.0
2500		60.1
3150		66.3
4000		65.0
5000		59.5
AAD		-27.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**59 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**58 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**54 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

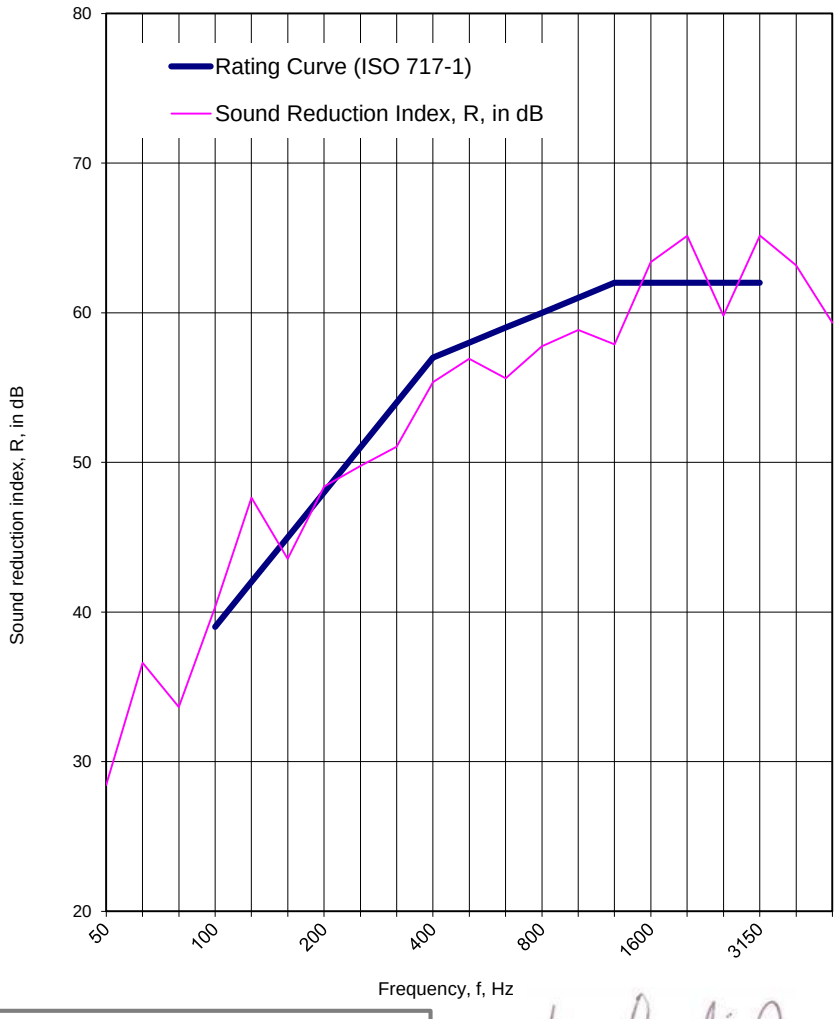
Data sheet Ref. WYC385361/AR1/P010

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		28.4
63+		36.6
80+		33.6
100		40.3
125		47.6
160		43.5
200		48.4
250		49.8
315		51.0
400		55.4
500		56.9
630		55.6
800		57.8
1000		58.8
1250		57.9
1600		63.4
2000		65.1
2500		59.8
3150		65.1
4000		63.2
5000		59.3
AAD		-22.4

Frequency range for rating in accordance with ISO 717-1



R_w =	**58 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**58 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**54 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

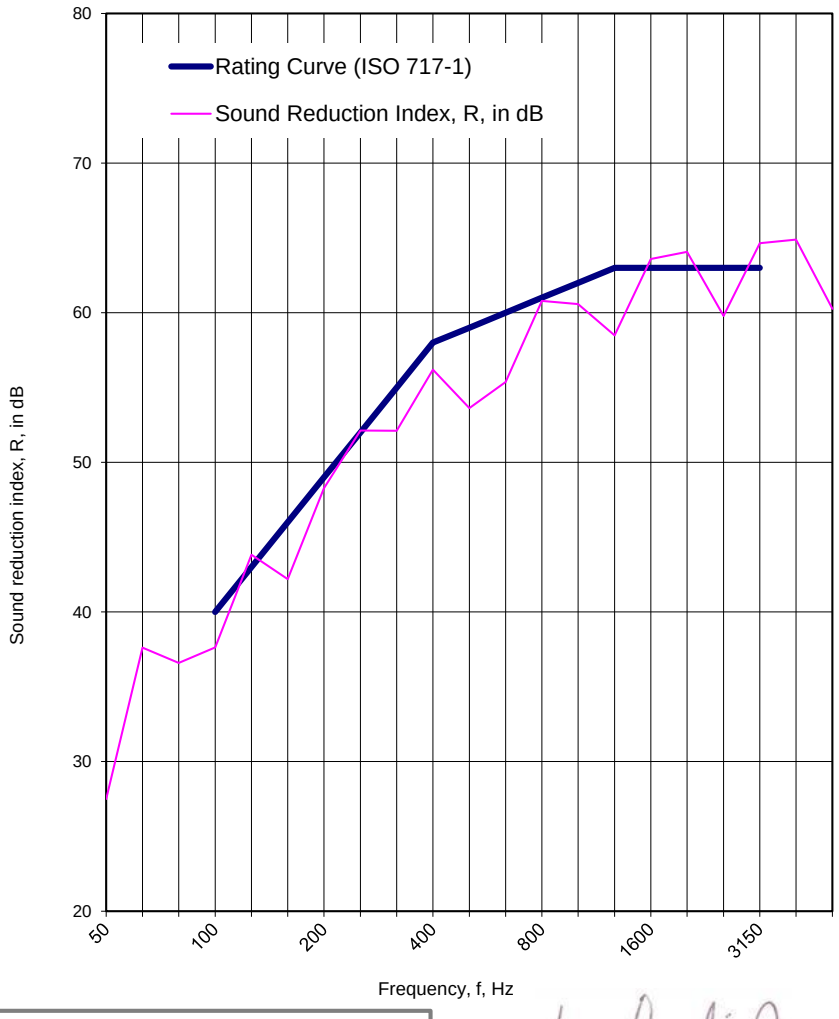
Data sheet Ref. WYC385361/AR1/P012

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		27.5
63+		37.6
80+		36.6
100		37.6
125		43.8
160		42.2
200		48.3
250		52.1
315		52.1
400		56.2
500		53.6
630		55.4
800		60.8
1000		60.6
1250		58.5
1600		63.6
2000		64.1
2500		59.8
3150		64.6
4000		64.9
5000		60.3
AAD		-31.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**59 dB**	$C_{(50-3150)}$ =	-2	dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**57 dB**	$C_{(50-5000)}$ =	-2	dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	-1	dB	$C_{tr\ (100-5000)}$ =	-6	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

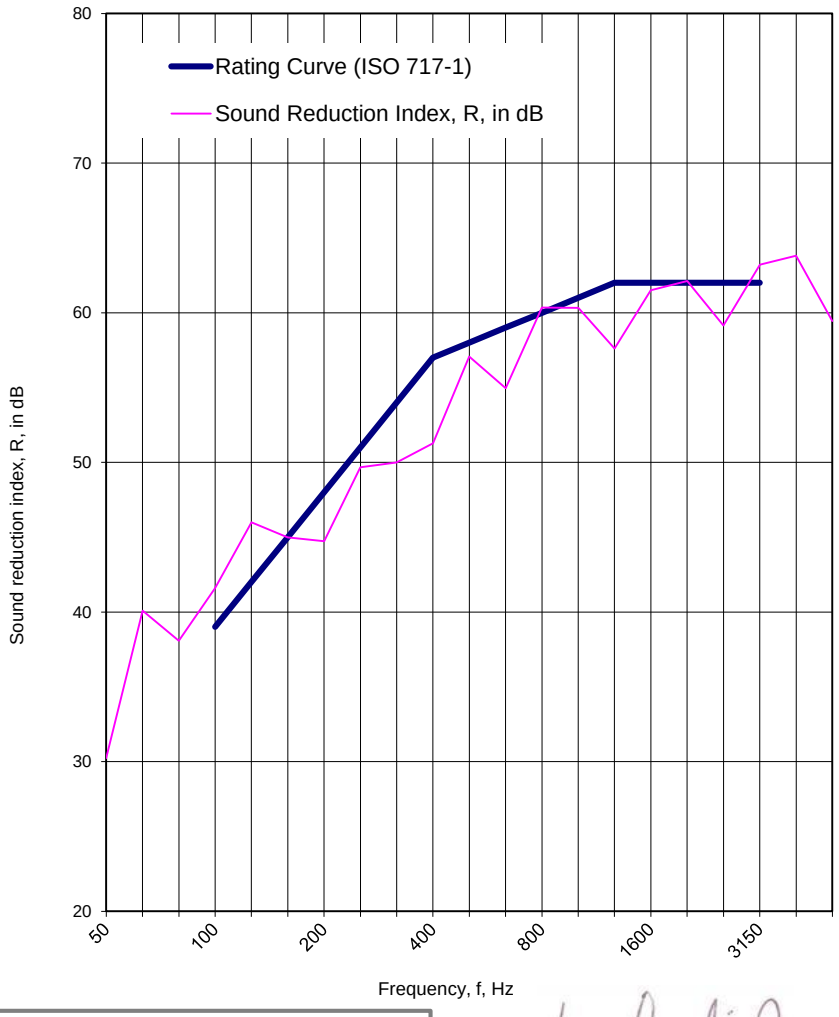
Data sheet Ref. WYC385361/AR1/P013

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R*, dB
50+	30.2
63+	40.1
80+	38.1
100	41.6
125	46.0
160	45.0
200	44.7
250	49.7
315	50.0
400	51.3
500	57.1
630	55.0
800	60.3
1000	60.3
1250	57.6
1600	61.5
2000	62.1
2500	59.1
3150	63.2
4000	63.8
5000	59.5
AAD	-27.7

Frequency range for rating in accordance with ISO 717-1



R_w =	**58 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	**57 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	**54 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

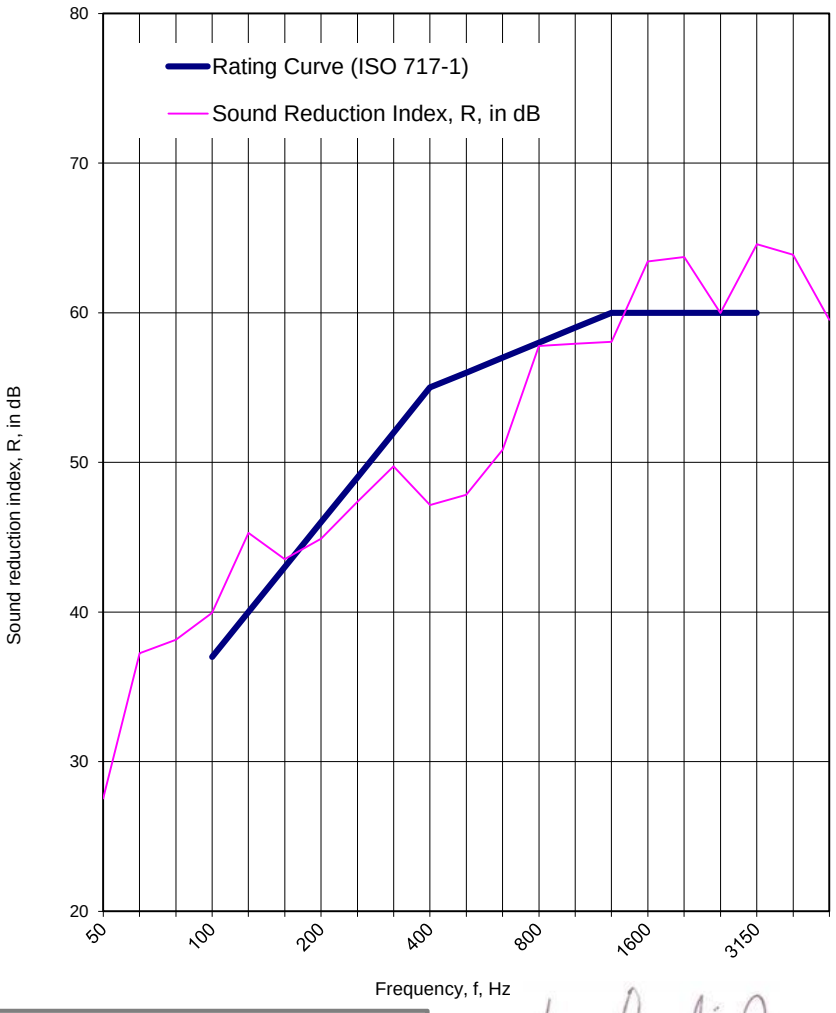
Data sheet Ref. WYC385361/AR1/P014

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		27.5
63+		37.2
80+		38.1
100		39.9
125		45.3
160		43.5
200		44.9
250		47.4
315		49.7
400		47.1
500		47.8
630		50.9
800		57.8
1000		57.9
1250		58.1
1600		63.4
2000		63.7
2500		60.0
3150		64.6
4000		63.9
5000		59.5
AAD		-30.4

Frequency range for rating in accordance with ISO 717-1



R_w =	**56 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	**55 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	**51 dB**	$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

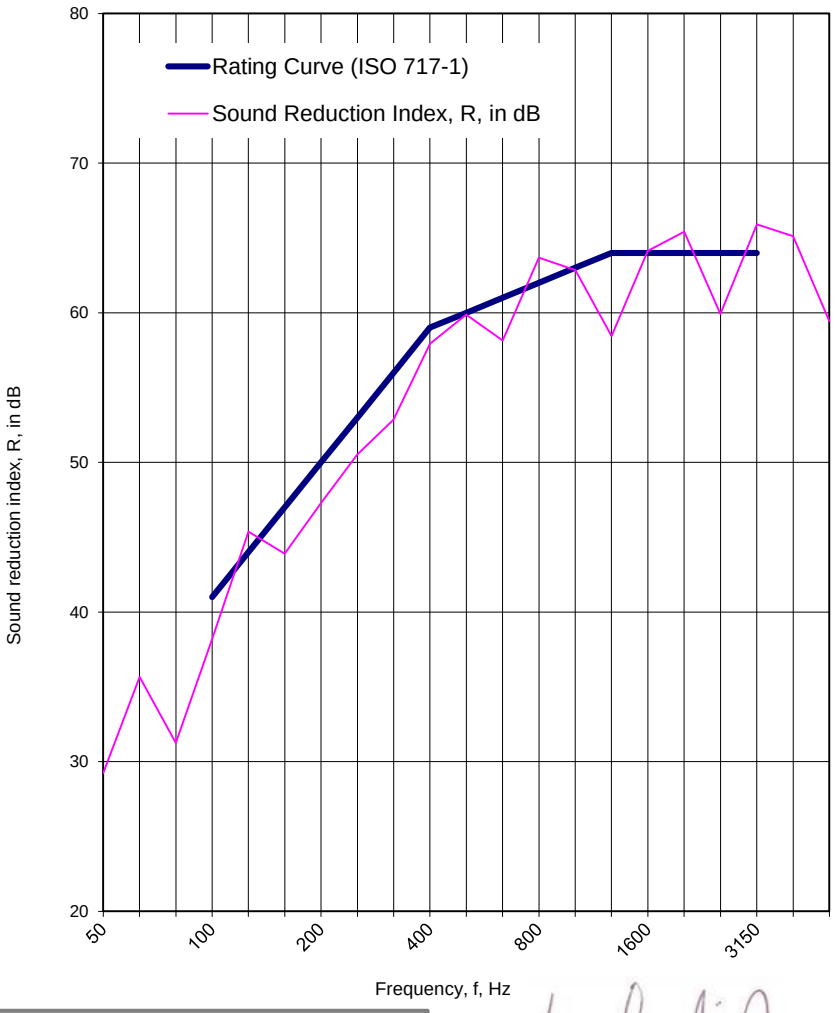
Data sheet Ref. WYC385361/AR1/P015

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		29.2
63+		35.7
80+		31.3
100		38.2
125		45.4
160		43.9
200		47.3
250		50.5
315		52.8
400		57.9
500		59.9
630		58.1
800		63.7
1000		62.8
1250		58.5
1600		64.1
2000		65.4
2500		59.9
3150		65.9
4000		65.1
5000		59.5
AAD		-28.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**60 dB**	$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-12	dB
R_w+C =	**59 dB**	$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-12	dB
R_w+C_{tr} =	**54 dB**	$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

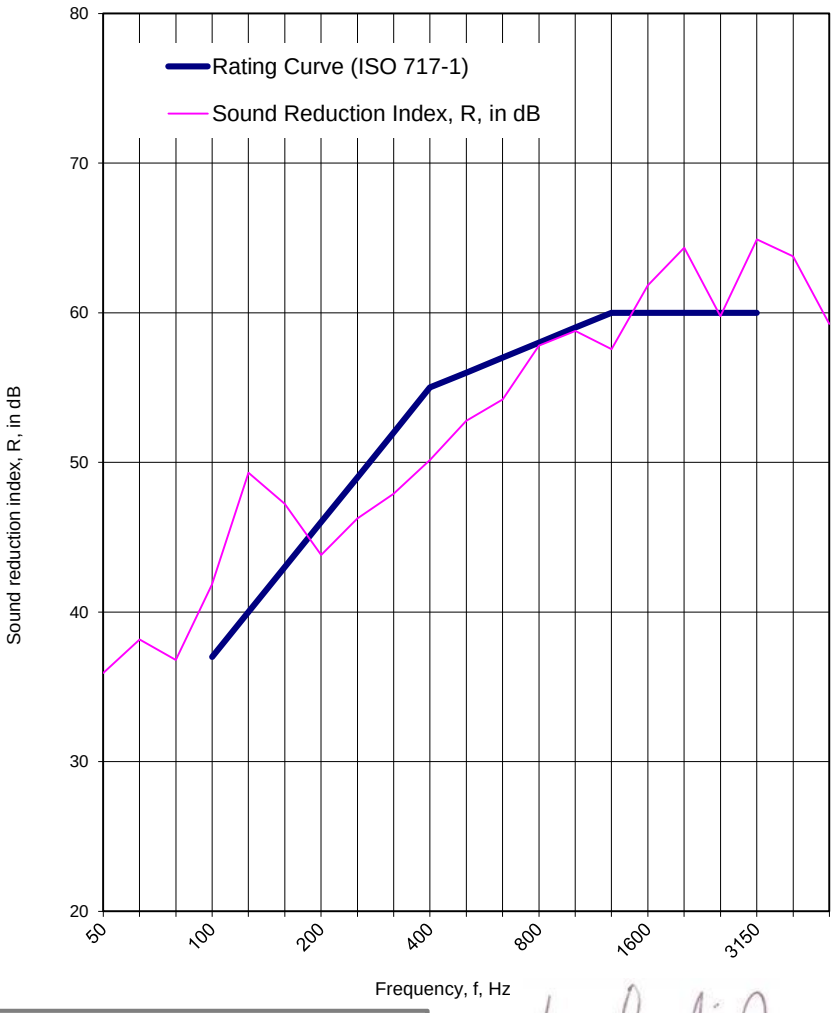
Data sheet Ref. WYC385361/AR1/P016

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		35.9
63+		38.2
80+		36.8
100		41.8
125		49.3
160		47.2
200		43.8
250		46.2
315		47.9
400		50.2
500		52.8
630		54.2
800		57.8
1000		58.8
1250		57.6
1600		61.8
2000		64.4
2500		59.8
3150		64.9
4000		63.8
5000		59.3
AAD		-23.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**56 dB**	$C_{(50-3150)}$ =	0 dB	$C_{tr\ (50-3150)}$ =	-5 dB
R_w+C =	**56 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-5 dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

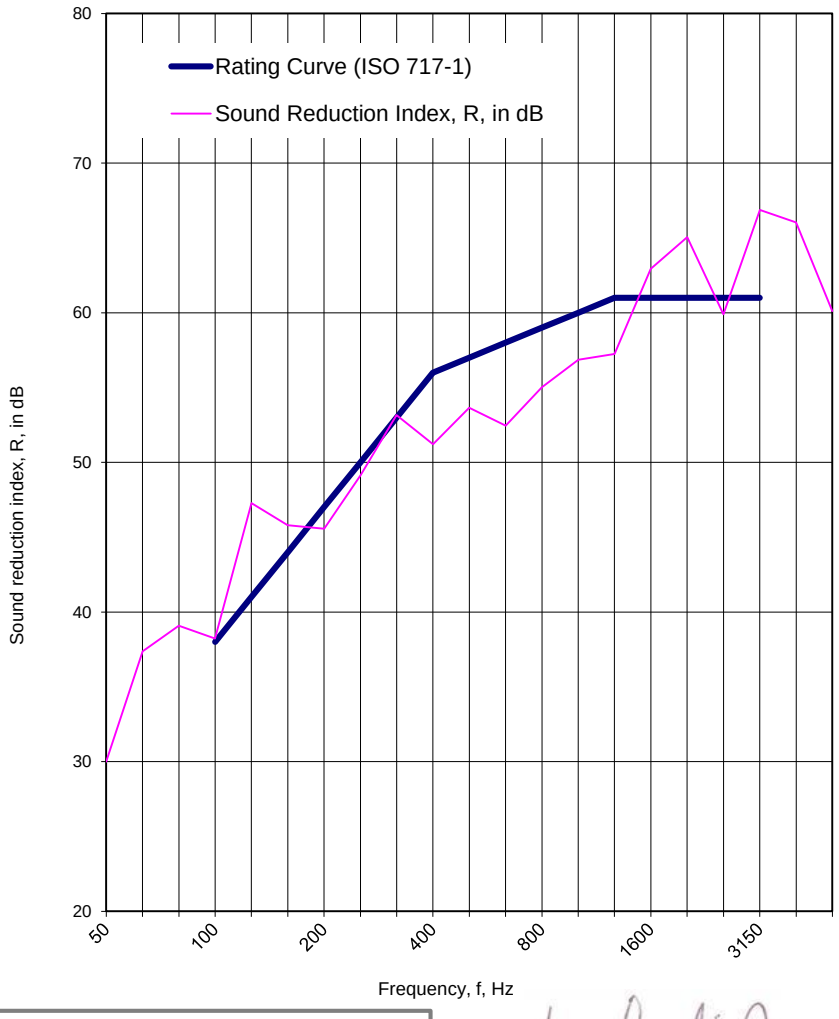
Data sheet Ref. WYC385361/AR1/P017

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB	
50+		30.0
63+		37.4
80+		39.1
100		38.2
125		47.3
160		45.8
200		45.6
250		49.1
315		53.1
400		51.2
500		53.6
630		52.4
800		55.0
1000		56.9
1250		57.2
1600		62.9
2000		65.1
2500		59.9
3150		66.9
4000		66.0
5000		60.1
AAD		-28.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**57 dB**	$C_{(50-3150)}$ =	-1	dB	$C_{tr\ (50-3150)}$ =	-7	dB
R_w+C =	**56 dB**	$C_{(50-5000)}$ =	0	dB	$C_{tr\ (50-5000)}$ =	-7	dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0	dB	$C_{tr\ (100-5000)}$ =	-5	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

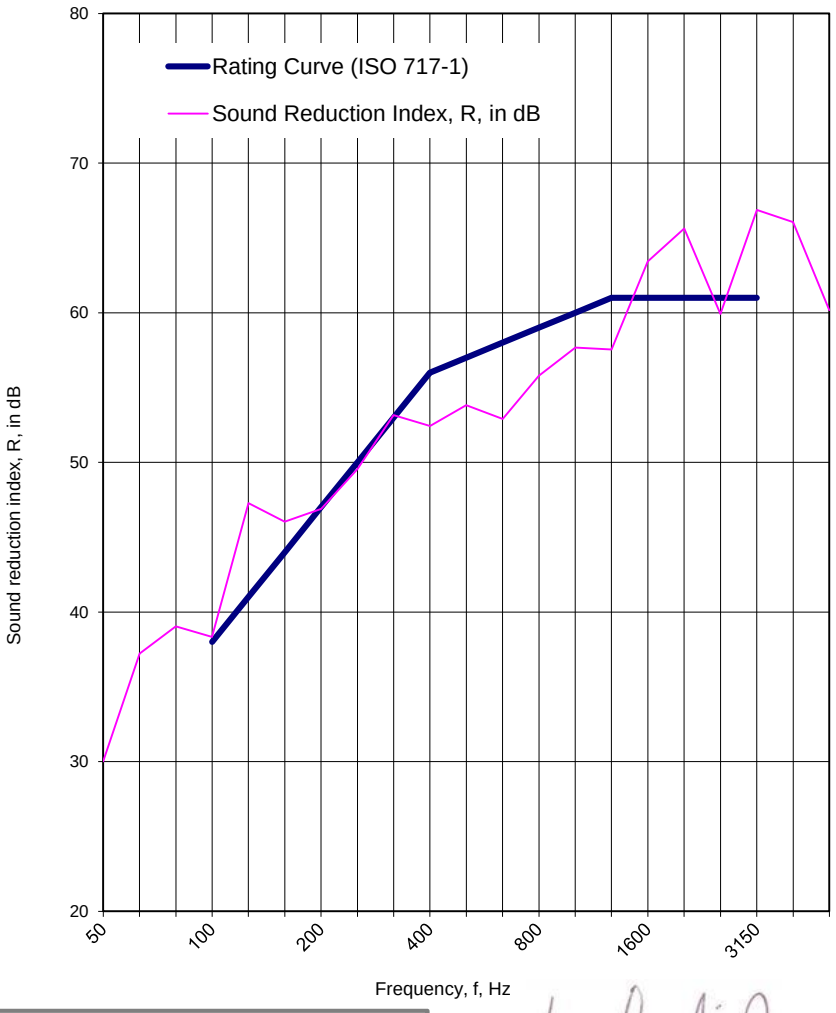
Data sheet Ref. WYC385361/AR1/P018

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R* ,dB
50+	30.0
63+	37.2
80+	39.0
100	38.3
125	47.3
160	46.0
200	46.9
250	49.5
315	53.2
400	52.4
500	53.8
630	52.9
800	55.8
1000	57.7
1250	57.6
1600	63.4
2000	65.6
2500	59.9
3150	66.9
4000	66.0
5000	60.2
AAD	-22.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**57 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7 dB
R_w+C =	**57 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7 dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

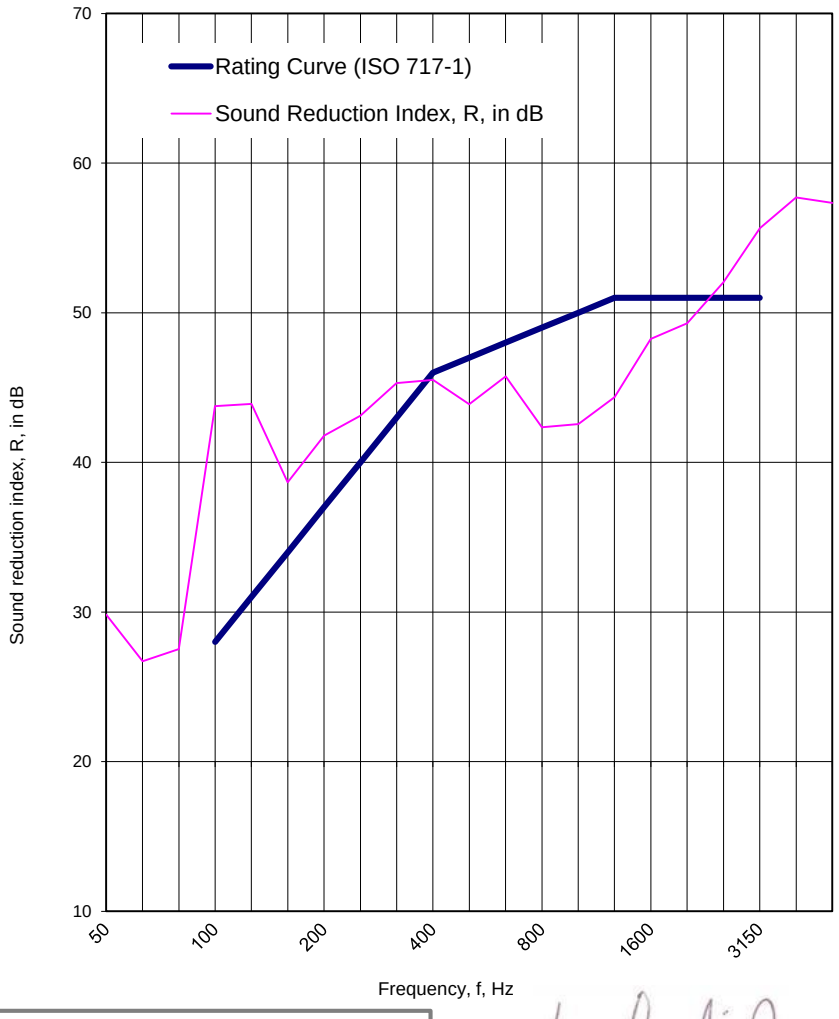
Data sheet Ref. WYC385361/AR1/P019

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		29.8
63+		26.7
80+		27.5
100		43.7
125		43.9
160		38.7
200		41.8
250		43.1
315		45.3
400		45.5
500		43.9
630		45.7
800		42.3
1000		42.6
1250		44.4
1600		48.3
2000		49.3
2500		52.0
3150		55.7
4000		57.7
5000		57.4
AAD		-31.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**47 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-5	dB
R_w+C =	**46 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-5	dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on receive room side)

For detailed technical specification, please refer to Section 2 of the report

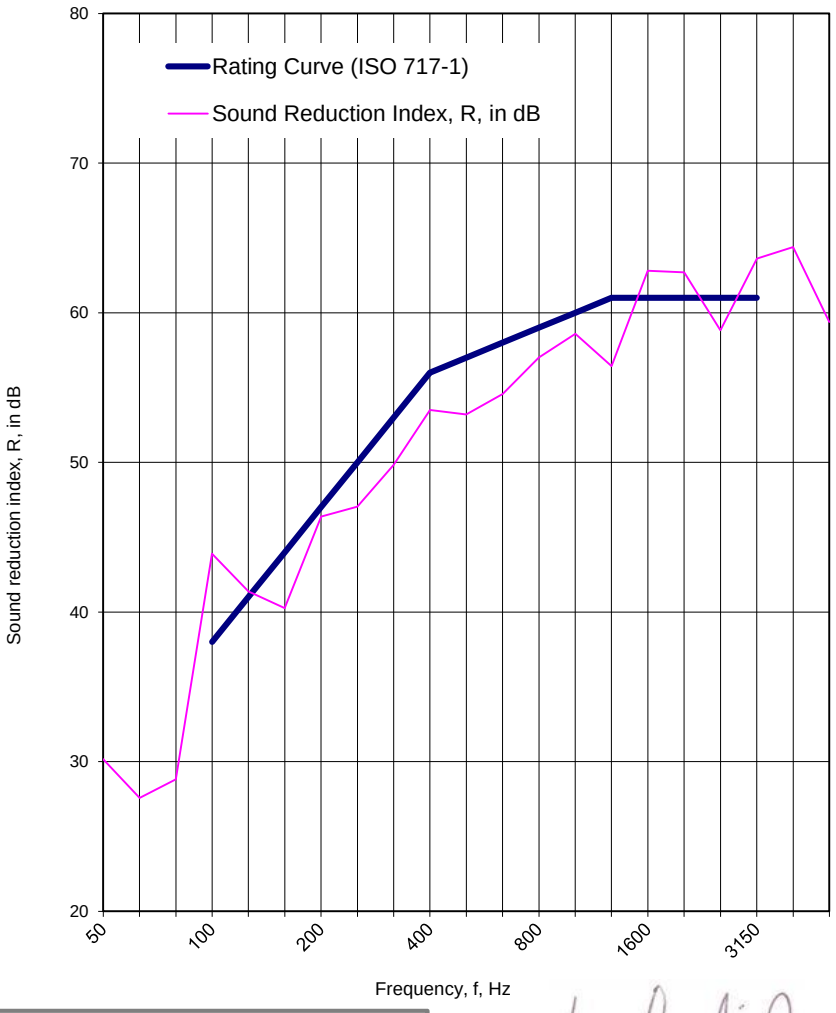
Data sheet Ref. WYC385361/AR1/P020

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R*, dB
50+	30.2
63+	27.6
80+	28.8
100	43.9
125	41.4
160	40.3
200	46.4
250	47.0
315	49.8
400	53.5
500	53.2
630	54.6
800	57.0
1000	58.6
1250	56.4
1600	62.8
2000	62.7
2500	58.8
3150	63.6
4000	64.4
5000	59.4
AAD	-30.4

Frequency range for rating in accordance with ISO 717-1



R_w =	**57 dB**	$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-12 dB
R_w+C =	**56 dB**	$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-12 dB
R_w+C_{tr} =	**52 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on source room side)

For detailed technical specification, please refer to Section 2 of the report

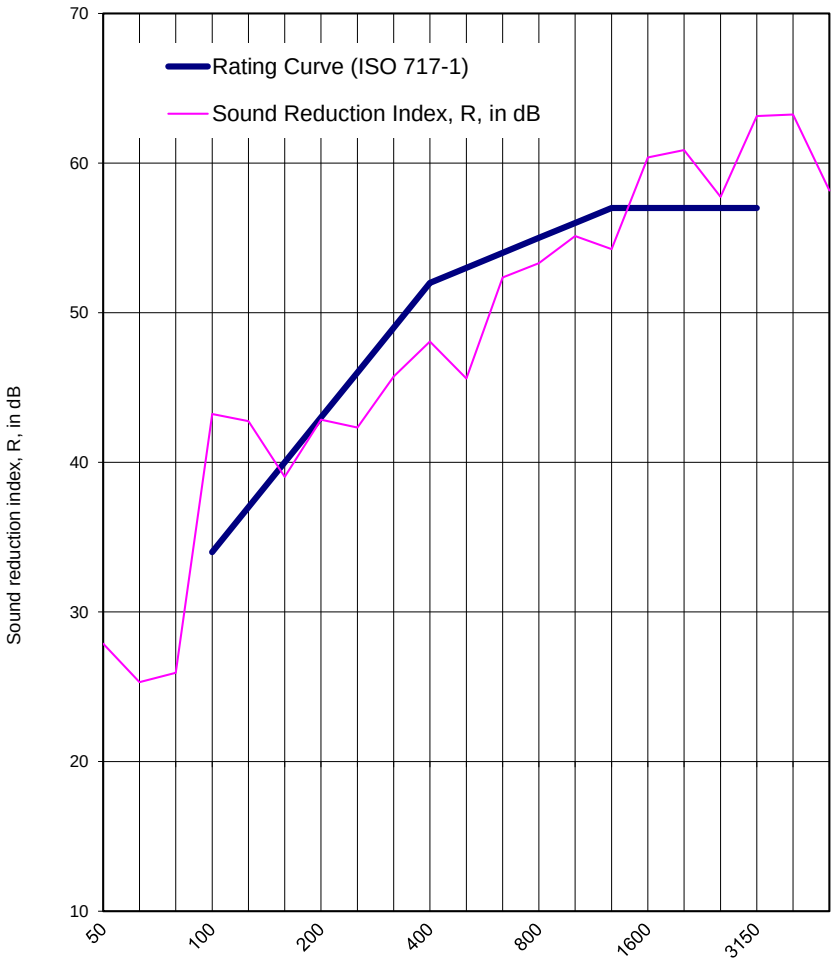
Data sheet Ref. WYC385361/AR1/P022

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		27.9
63+		25.3
80+		25.9
100		43.2
125		42.8
160		39.0
200		42.8
250		42.3
315		45.7
400		48.1
500		45.6
630		52.4
800		53.3
1000		55.1
1250		54.3
1600		60.4
2000		60.9
2500		57.7
3150		63.1
4000		63.2
5000		58.2
AAD		-26.3

Frequency range for rating in accordance with ISO 717-1



R_w =	**53 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**53 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**49 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	100mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

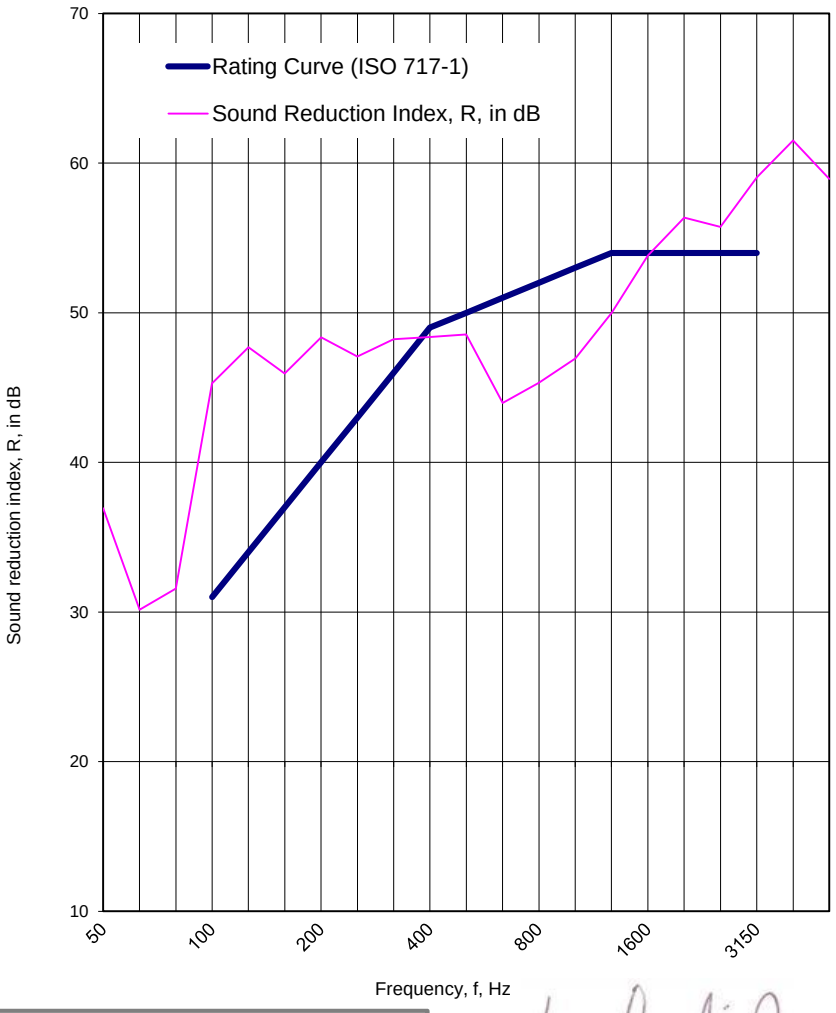
Data sheet Ref. WYC385361/AR1/P023

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		36.9
63+		30.2
80+		31.6
100		45.3
125		47.7
160		45.9
200		48.3
250		47.1
315		48.2
400		48.4
500		48.6
630		44.0
800		45.3
1000		46.9
1250		50.0
1600		53.8
2000		56.4
2500		55.7
3150		59.0
4000		61.5
5000		58.9
AAD		-26.0

Frequency range for rating in accordance with ISO 717-1



R_w =	**50 dB**	$C_{(50-3150)}$ =	0 dB	$C_{tr\ (50-3150)}$ =	-4	dB
R_w+C =	**50 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-4	dB
R_w+C_{tr} =	**48 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-2	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	90mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on receive room side)

For detailed technical specification, please refer to Section 2 of the report

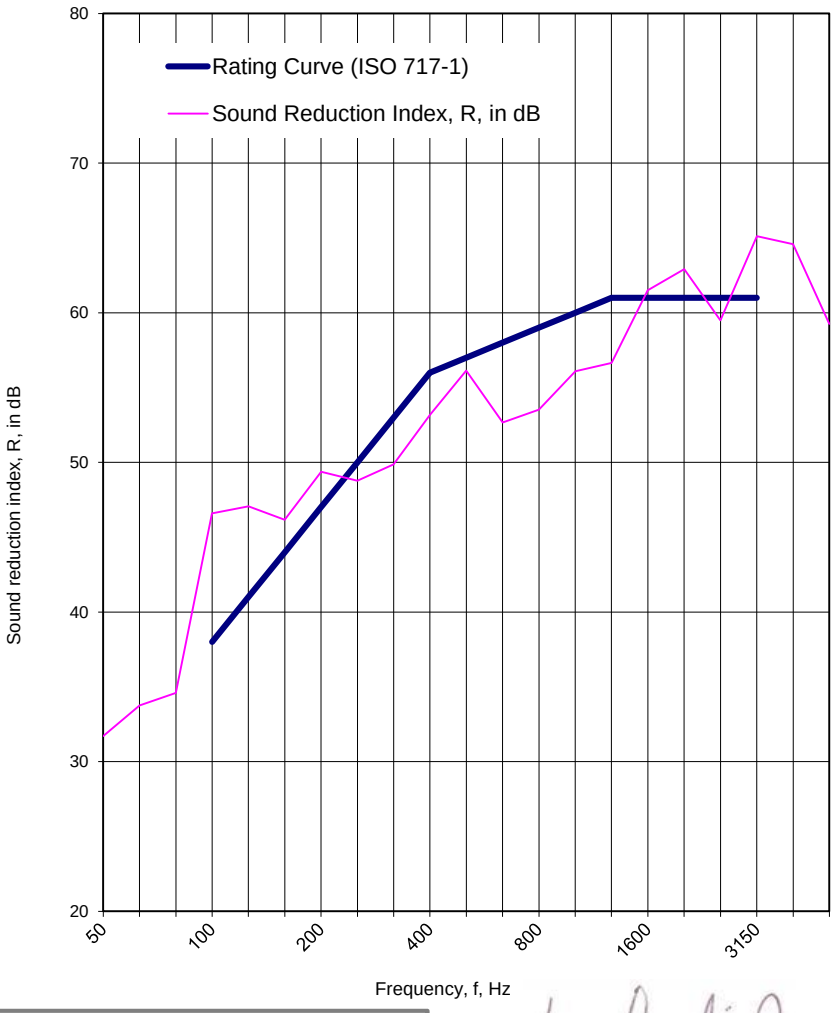
Data sheet Ref. WYC385361/AR1/P024

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		31.7
63+		33.8
80+		34.6
100		46.6
125		47.1
160		46.2
200		49.4
250		48.8
315		49.9
400		53.2
500		56.1
630		52.7
800		53.5
1000		56.1
1250		56.7
1600		61.5
2000		62.9
2500		59.5
3150		65.1
4000		64.6
5000		59.3
AAD		-28.6

Frequency range for rating in accordance with ISO 717-1



R_w =	**57 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8	dB
R_w+C =	**57 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-8	dB
R_w+C_{tr} =	**54 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	90mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on source room side)

For detailed technical specification, please refer to Section 2 of the report

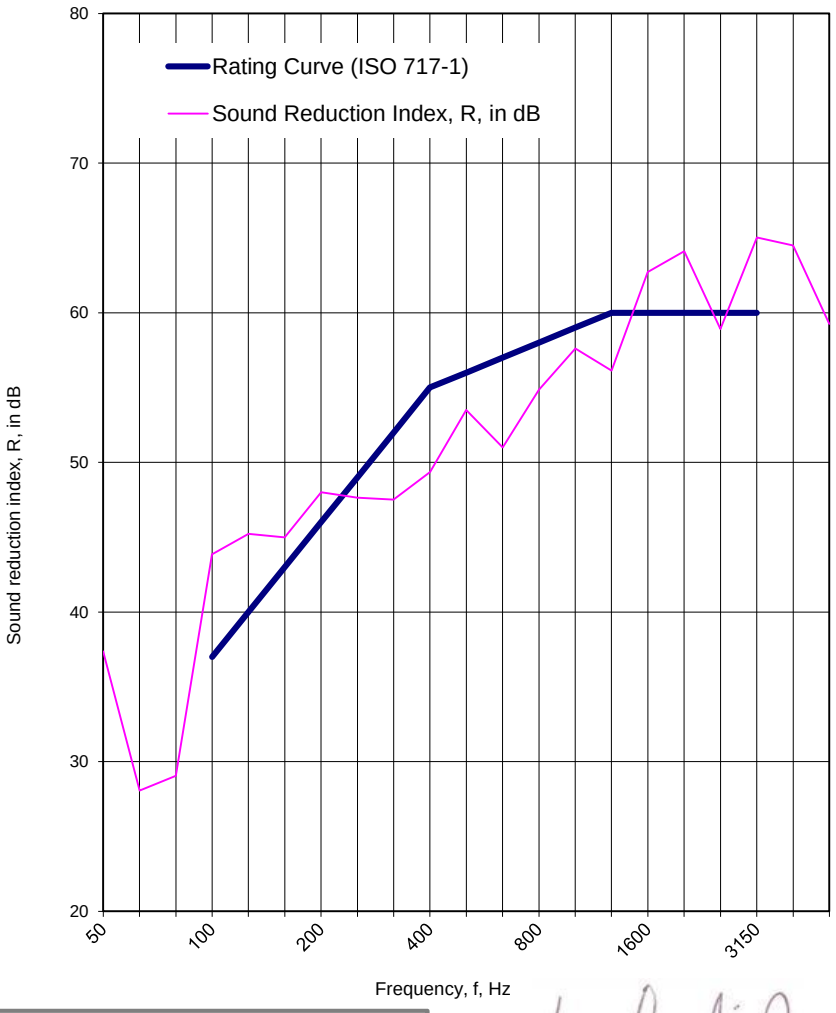
Data sheet Ref. WYC385361/AR1/P025

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R* ,dB	
50+		37.4
63+		28.1
80+		29.0
100		43.9
125		45.2
160		45.0
200		48.0
250		47.6
315		47.5
400		49.3
500		53.5
630		51.0
800		54.8
1000		57.6
1250		56.1
1600		62.7
2000		64.1
2500		58.9
3150		65.0
4000		64.5
5000		59.3
AAD		-29.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**56 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**56 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**53 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	150mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

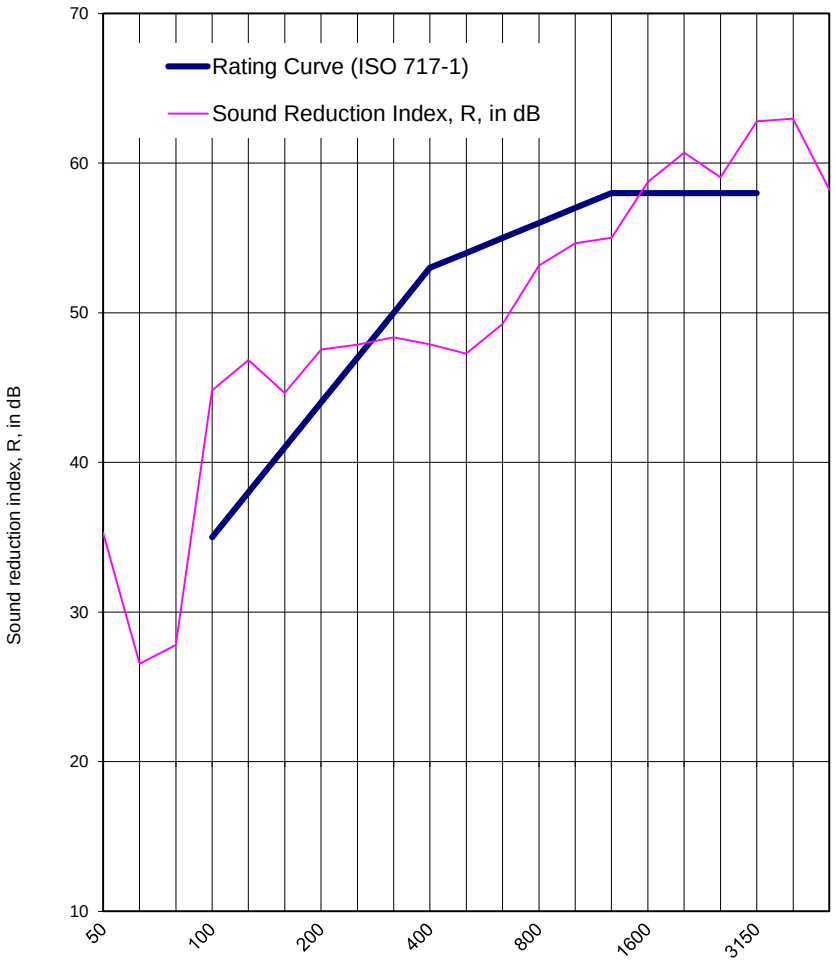
Data sheet Ref. WYC385361/AR1/P026

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		14.20	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		35.3
63+		26.5
80+		27.8
100		44.8
125		46.8
160		44.6
200		47.5
250		47.9
315		48.3
400		47.9
500		47.3
630		49.2
800		53.1
1000		54.6
1250		55.0
1600		58.7
2000		60.7
2500		59.1
3150		62.8
4000		63.0
5000		58.2
AAD		-27.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**54 dB**	$C_{(50-3150)}$ =	-1	dB	$C_{tr\ (50-3150)}$ =	-9	dB
R_w+C =	**54 dB**	$C_{(50-5000)}$ =	-1	dB	$C_{tr\ (50-5000)}$ =	-9	dB
R_w+C_{tr} =	**51 dB**	$C_{(100-5000)}$ =	0	dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Appendix 3 – Summary of Results & Test Data Sheets – Small Technical Partition 1.9m2 (22 Pages)

Product Type	Sealants / Compounds

Data Sheet Ref.	**Variations**		**Test Result R_w ($C;C_{tr}$)**
WYC385361/AR1/P003	Test Description	Test of Partition wall. See Appendix 5 for construction detail	53 (-1;-4) dB
WYC385361/AR1P004	Test Description	Test of partition wall with aperture for sealants not filled in	8 (0;0) dB
WYC385361/AR1/P005	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material)	47 (0;-3) dB
WYC385361/AR1/P006	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette	47 (-1;-3) dB
WYC385361/AR1/P007	Test Description	Sealfire W100. 50mm wide x 25mm thick (no backing material)	50 (0;-5) dB
WYC385361/AR1/P008	Test Description	Sealfire W200. 50mm wide x 25mm thick (no backing material)	49 (-1;-4) dB
WYC385361/AR1/P009	Test Description	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)	50 (-1;-5) dB
WYC385361/AR1P010	Test Description	Sealfire W250. 50mm wide x 25mm thick (no backing material)	50 (-1;-5) dB
WYC385361/AR1/P012	Test Description	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material	50 (-1;-6) dB
WYC385361/AR1/P013	Test Description	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing	49 (-1;-4) dB
WYC385361/AR1/P014	Test Description	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material	47 (-1;-4) dB
WYC385361/AR1/P015	Test Description	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing	51 (-1;-6) dB
WYC385361/AR1/P016	Test Description	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material	48 (-1;-4) dB
WYC385361/AR1/P017	Test Description	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	48 (0;-4) dB
WYC385361/AR1/P018	Test Description	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	49 (-1;-5) dB
WYC385361/AR1/P019	Test Description	50mm thick Sealfire W1000 Compound	38 (0;-2) dB
WYC385361/AR1/P020	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	48 (-1;-4) dB
WYC385361/AR1/P022	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	44 (0;-3) dB
WYC385361/AR1/P023	Test Description	100mm thick Sealfire W1000 Compound	42 (-1;-3) dB
WYC385361/AR1/P024	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	48 (0;-3) dB
WYC385361/AR1P025	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	47 (0;-3) dB
WYC385361/AR1/P026	Test Description	150mm thick Sealfire W1000 Compound	45 (0,-2) dB

Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	N/A
Material Type	N/A
Variations:	
Test Description	Test of Partition wall. See Appendix 2 for construction detail

For detailed technical specification, please refer to Section 2 of the report

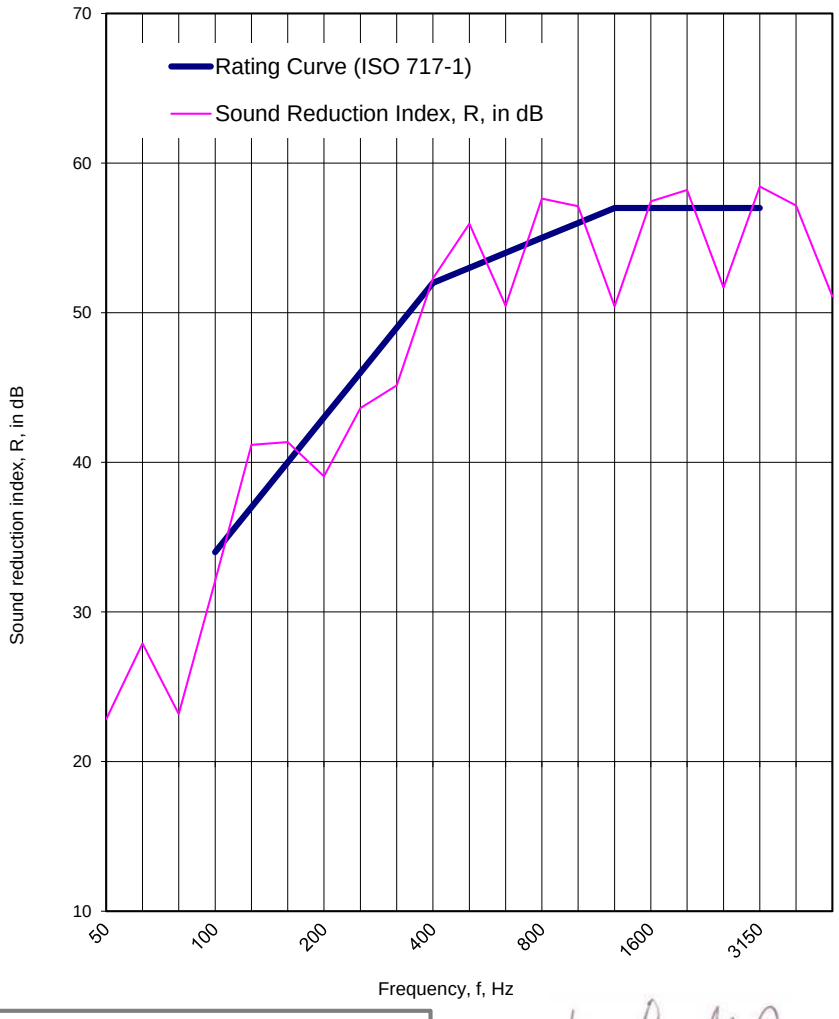
Data sheet Ref. WYC385361/AR1/P003

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		22.8
63+		27.9
80+		23.2
100		32.1
125		41.2
160		41.4
200		39.1
250		43.6
315		45.1
400		52.3
500		55.9
630		50.5
800		57.6
1000		57.1
1250		50.4
1600		57.4
2000		58.2
2500		51.7
3150		58.4
4000		57.2
5000		51.1
AAD		-27.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**53 dB**	$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-12	dB
R_w+C =	**52 dB**	$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-12	dB
R_w+C_{tr} =	**48 dB**	$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-5	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	N/A
Material Type	N/A
Variations:	
Test Description	Test of partition wall with aperture for sealants not filled in

For detailed technical specification, please refer to Section 2 of the report

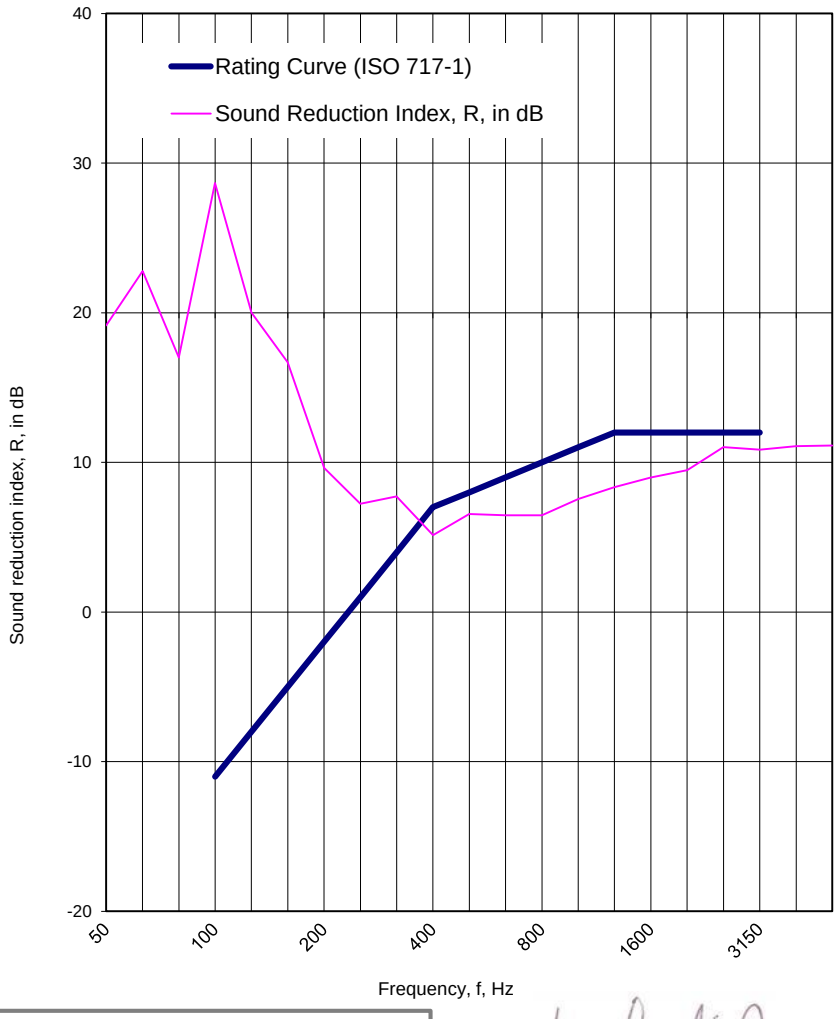
Data sheet Ref. WYC385361/AR1/P004

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		19.1
63+		22.8
80+		17.0
100		28.7
125		20.0
160		16.7
200		9.6
250		7.2
315		7.7
400		5.1
500		6.5
630		6.5
800		6.5
1000		7.6
1250		8.3
1600		9.0
2000		9.5
2500		11.0
3150		10.9
4000		11.1
5000		11.1
AAD		-24.2

Frequency range for rating in accordance with ISO 717-1



R_w =	8 dB	$C_{(50-3150)}$ =	0 dB	$C_{tr\ (50-3150)}$ =	0 dB
R_w+C =	8 dB	$C_{(50-5000)}$ =	1 dB	$C_{tr\ (50-5000)}$ =	0 dB
R_w+C_{tr} =	8 dB	$C_{(100-5000)}$ =	1 dB	$C_{tr\ (100-5000)}$ =	0 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

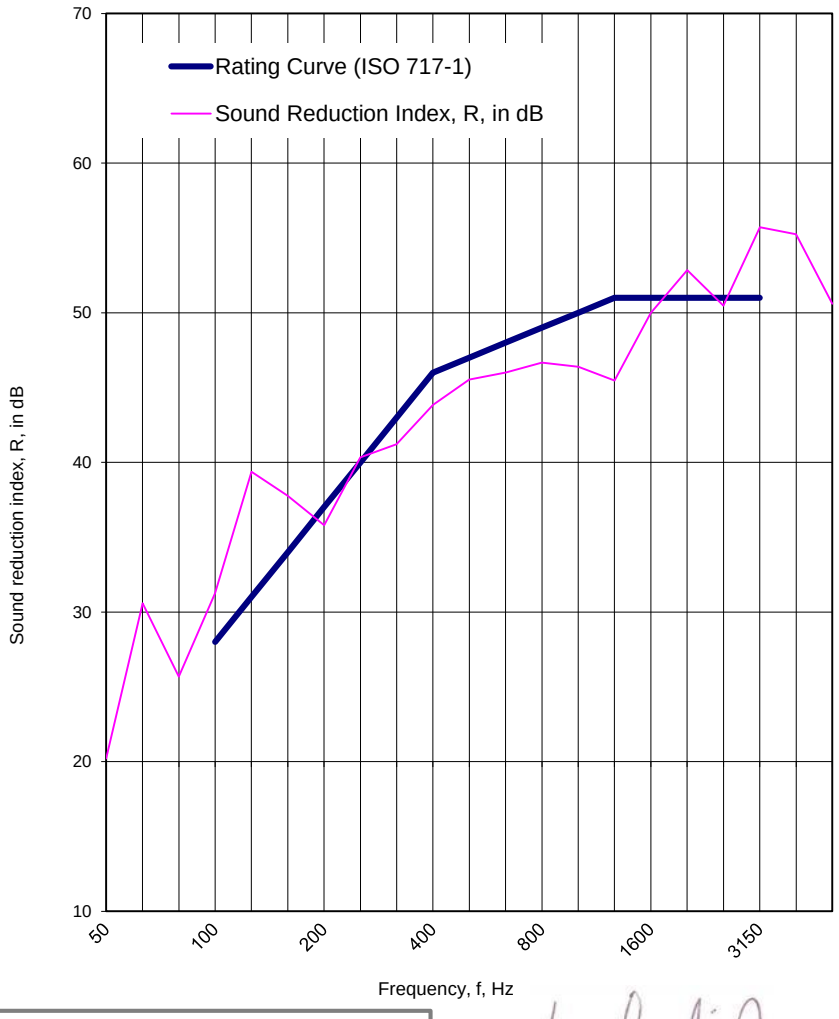
Data sheet Ref. WYC385361/AR1/P005

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R*, dB
50+	20.2
63+	30.6
80+	25.7
100	31.2
125	39.4
160	37.8
200	35.8
250	40.3
315	41.2
400	43.8
500	45.5
630	46.0
800	46.7
1000	46.4
1250	45.5
1600	50.0
2000	52.8
2500	50.5
3150	55.7
4000	55.2
5000	50.6
AAD	-21.7

Frequency range for rating in accordance with ISO 717-1



R_w =	**47 dB**	$C_{(50-3150)}$ =	0 dB	$C_{tr\ (50-3150)}$ =	-7 dB
R_w+C =	**47 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7 dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette

For detailed technical specification, please refer to Section 2 of the report

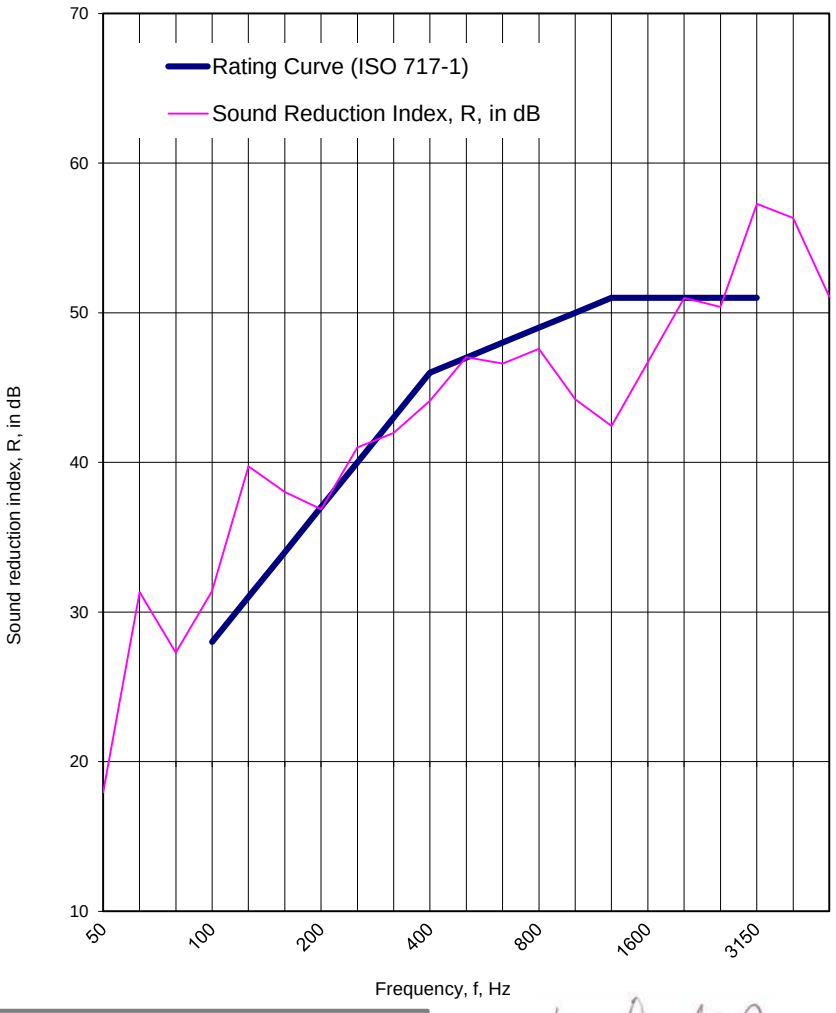
Data sheet Ref. WYC385361/AR1/P006

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	*R* ,dB
50+	17.9
63+	31.3
80+	27.3
100	31.4
125	39.7
160	38.0
200	36.9
250	41.0
315	42.0
400	44.1
500	47.0
630	46.6
800	47.6
1000	44.2
1250	42.4
1600	46.7
2000	51.0
2500	50.4
3150	57.3
4000	56.3
5000	51.1
AAD	-25.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**47 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	**46 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W100. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

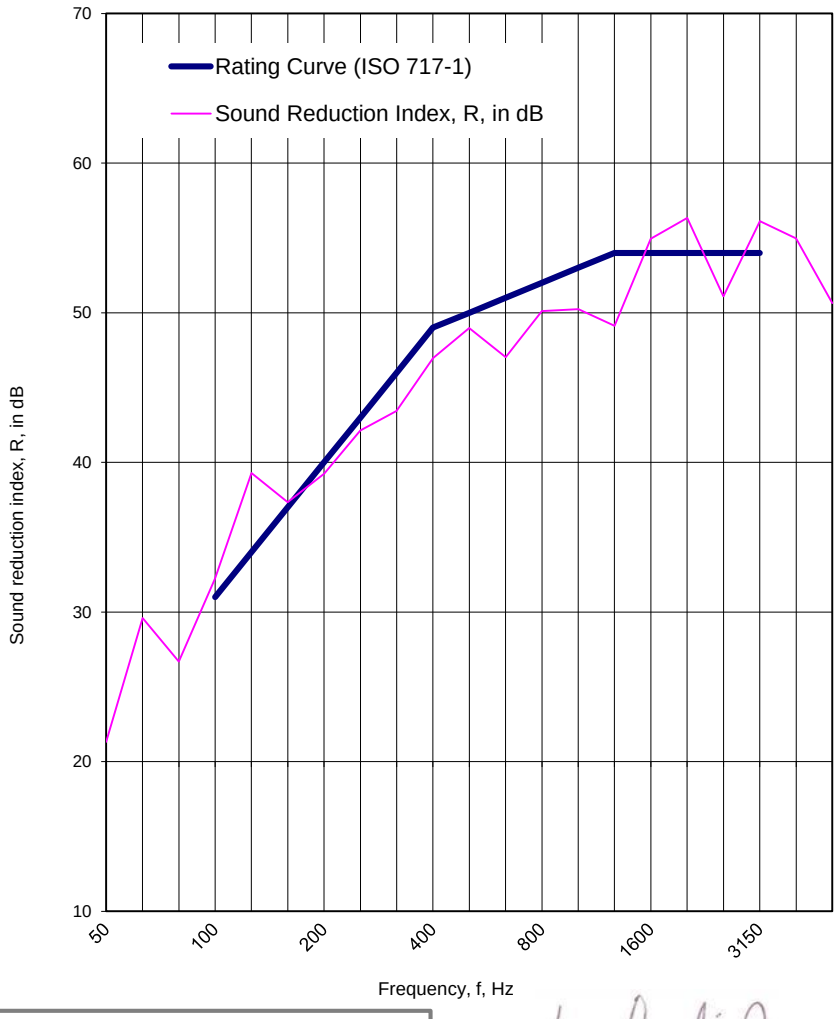
Data sheet Ref. WYC385361/AR1/P007

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		21.3
63+		29.6
80+		26.7
100		32.2
125		39.3
160		37.3
200		39.2
250		42.1
315		43.4
400		47.0
500		49.0
630		47.0
800		50.1
1000		50.2
1250		49.1
1600		54.9
2000		56.3
2500		51.1
3150		56.1
4000		55.0
5000		50.6
AAD		-23.7

Frequency range for rating in accordance with ISO 717-1



R_w =	**50 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**50 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**46 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

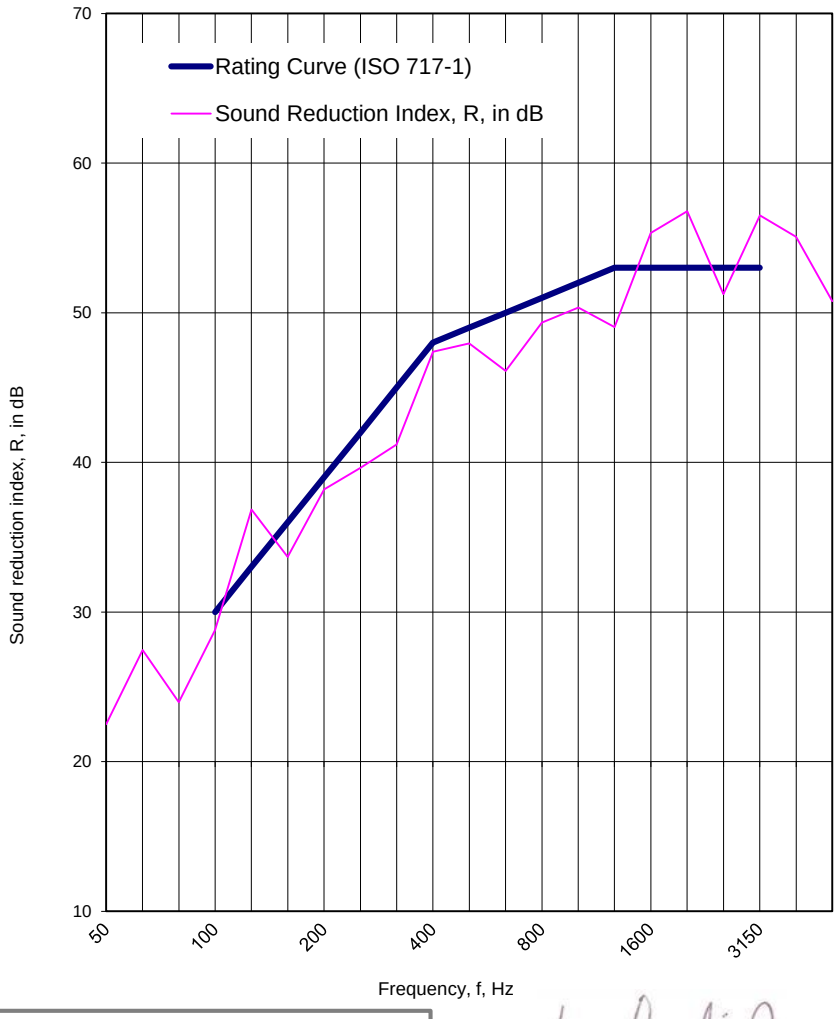
Data sheet Ref. WYC385361/AR1/P008

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		22.5
63+		27.5
80+		24.0
100		28.8
125		36.9
160		33.7
200		38.2
250		39.6
315		41.2
400		47.4
500		47.9
630		46.1
800		49.3
1000		50.3
1250		49.0
1600		55.3
2000		56.8
2500		51.2
3150		56.5
4000		55.1
5000		50.8
AAD		-25.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**49 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**48 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)

For detailed technical specification, please refer to Section 2 of the report

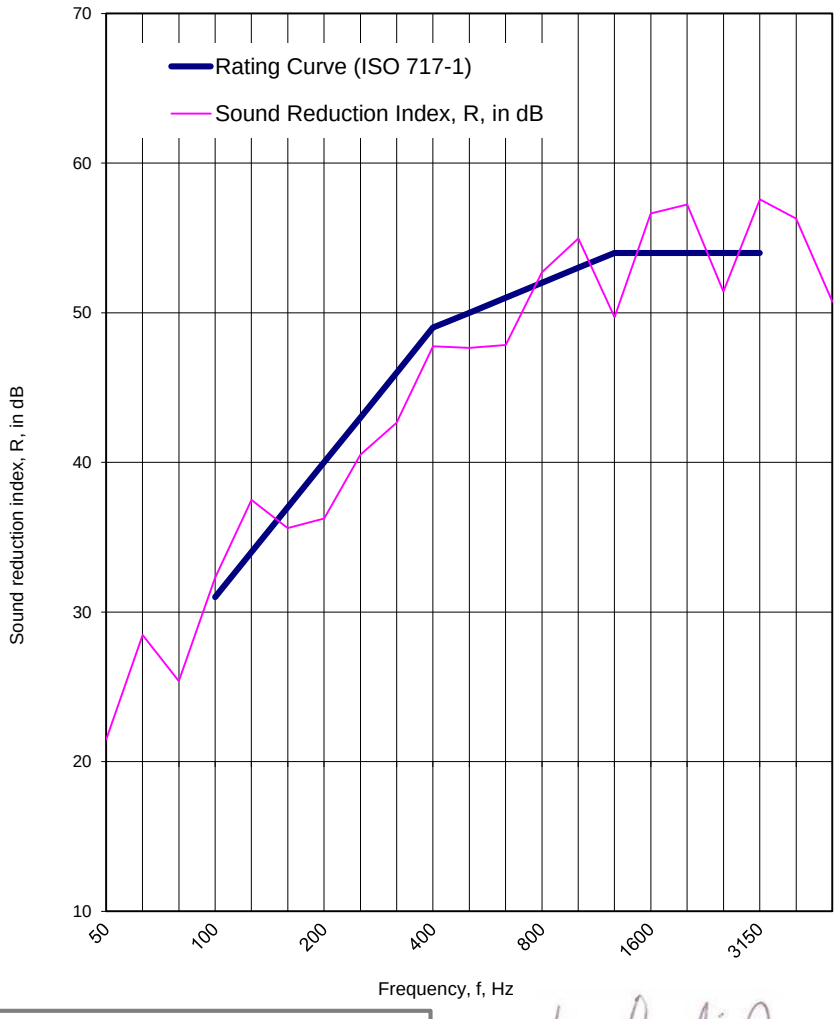
Data sheet Ref. WYC385361/AR1/P009

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		21.5
63+		28.5
80+		25.4
100		32.3
125		37.5
160		35.6
200		36.2
250		40.5
315		42.6
400		47.8
500		47.7
630		47.8
800		52.7
1000		55.0
1250		49.7
1600		56.6
2000		57.2
2500		51.4
3150		57.6
4000		56.3
5000		50.8
AAD		-24.7

Frequency range for rating in accordance with ISO 717-1



R_w =	**50 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9 dB
R_w+C =	**49 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
R_w+C_{tr} =	**45 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 50mm wide x 25mm thick (no backing material)

For detailed technical specification, please refer to Section 2 of the report

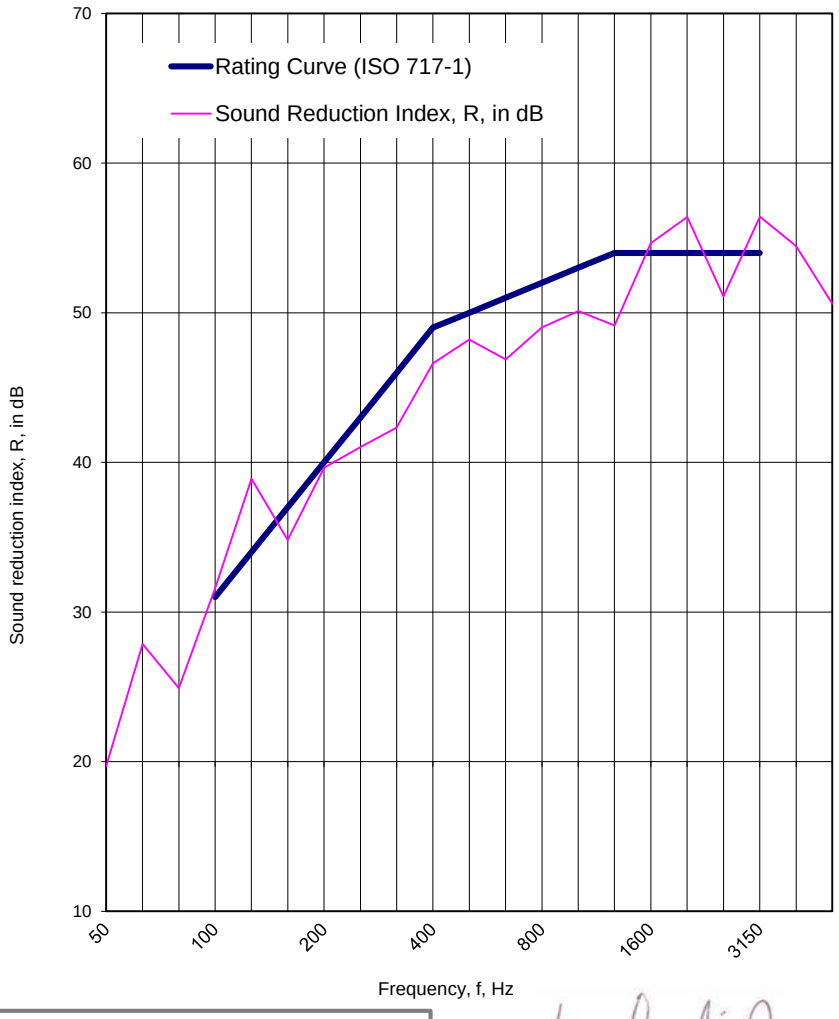
Data sheet Ref. WYC385361/AR1/P010

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		19.7
63+		27.9
80+		24.9
100		31.6
125		38.9
160		34.8
200		39.7
250		41.0
315		42.3
400		46.6
500		48.2
630		46.9
800		49.0
1000		50.1
1250		49.2
1600		54.6
2000		56.4
2500		51.1
3150		56.4
4000		54.4
5000		50.6
AAD		-30.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**50 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**49 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**45 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Retest - Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

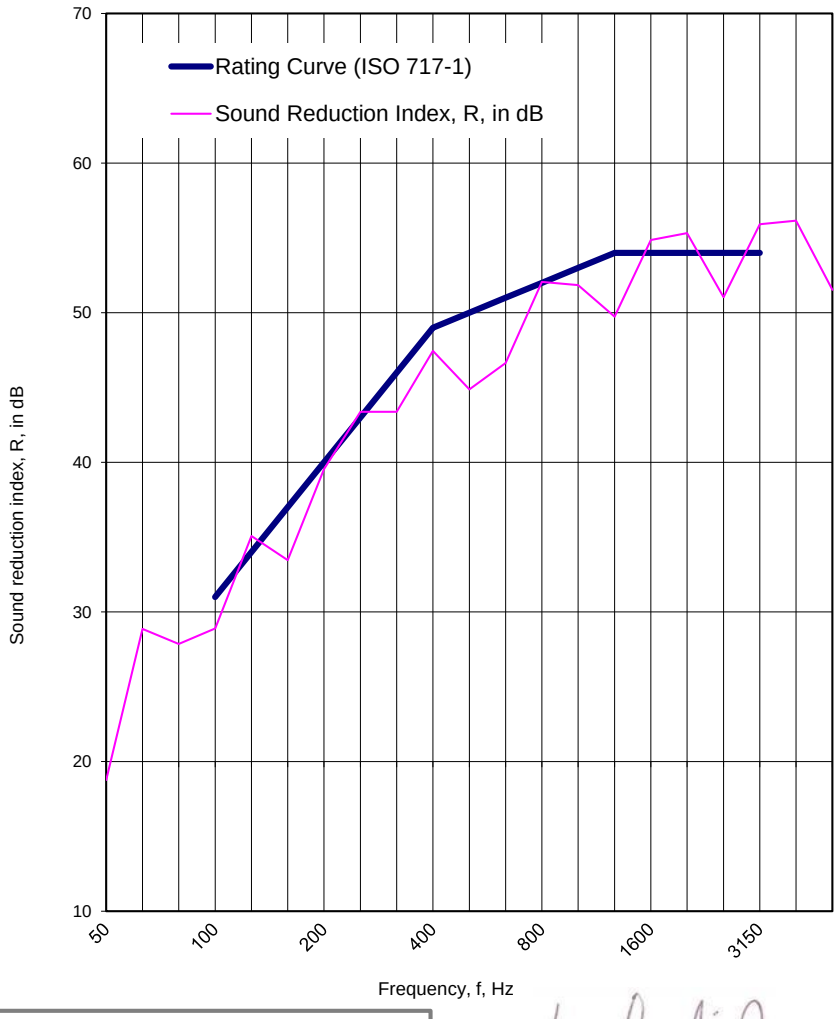
Data sheet Ref. WYC385361/AR1/P012

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		18.8
63+		28.9
80+		27.9
100		28.9
125		35.1
160		33.5
200		39.5
250		43.4
315		43.4
400		47.5
500		44.9
630		46.6
800		52.1
1000		51.8
1250		49.7
1600		54.9
2000		55.3
2500		51.0
3150		55.9
4000		56.2
5000		51.5
AAD		-28.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**50 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**49 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

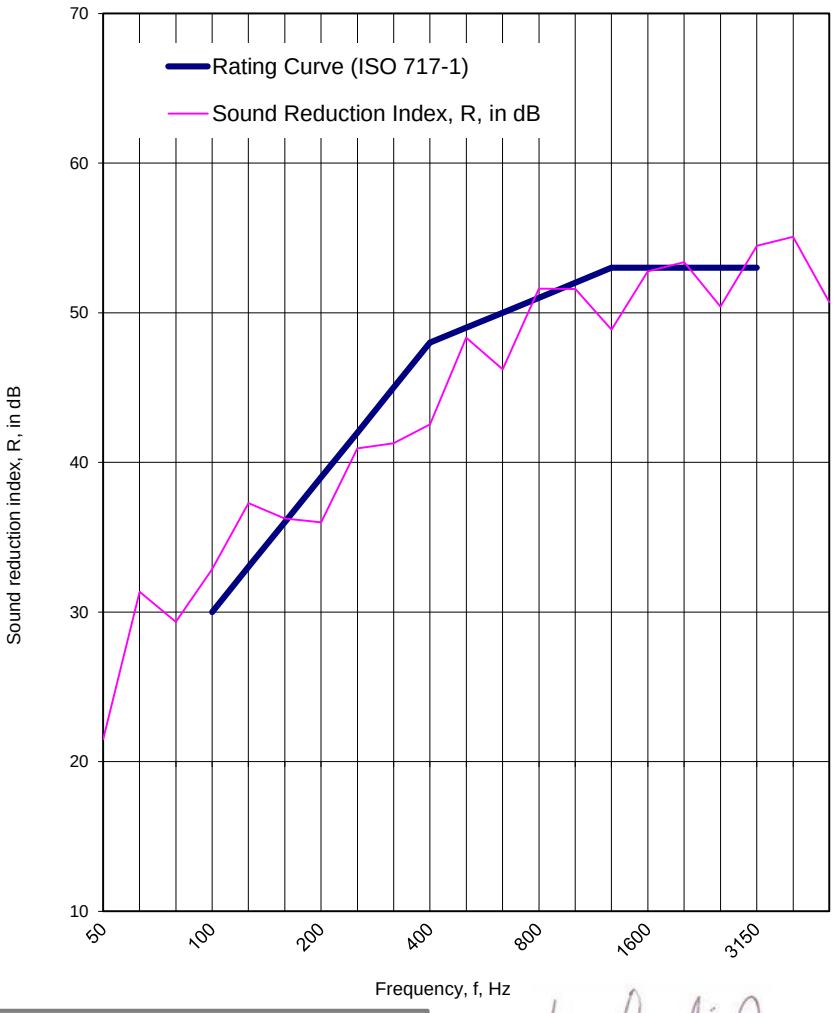
Data sheet Ref. WYC385361/AR1/P013

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB
50+	21.5
63+	31.3
80+	29.3
100	32.8
125	37.3
160	36.3
200	36.0
250	40.9
315	41.3
400	42.5
500	48.3
630	46.2
800	51.6
1000	51.6
1250	48.9
1600	52.8
2000	53.4
2500	50.4
3150	54.5
4000	55.1
5000	50.7
AAD	-25.1

Frequency range for rating in accordance with ISO 717-1



R_w =	49 dB	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7 dB
R_w+C =	48 dB	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7 dB
R_w+C_{tr} =	45 dB	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

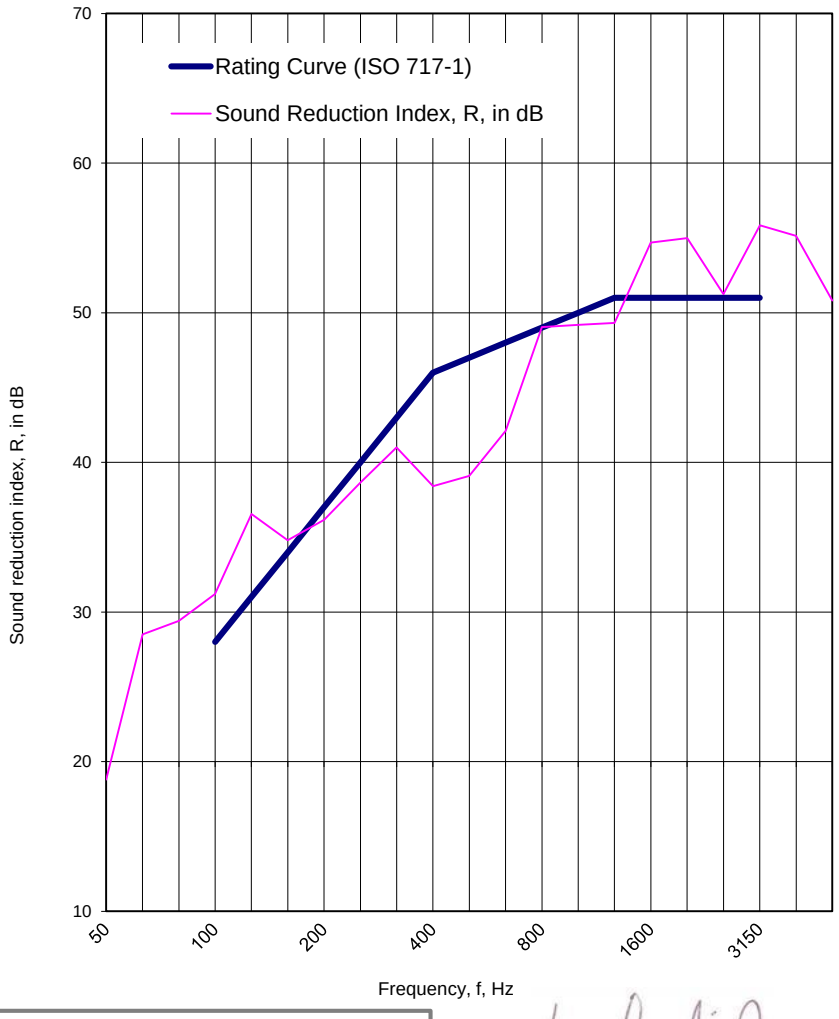
Data sheet Ref. WYC385361/AR1/P014

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		18.8
63+		28.5
80+		29.4
100		31.2
125		36.6
160		34.8
200		36.2
250		38.6
315		41.0
400		38.4
500		39.1
630		42.1
800		49.0
1000		49.2
1250		49.3
1600		54.7
2000		55.0
2500		51.2
3150		55.8
4000		55.1
5000		50.8
AAD		-28.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**47 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	**46 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	**43 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

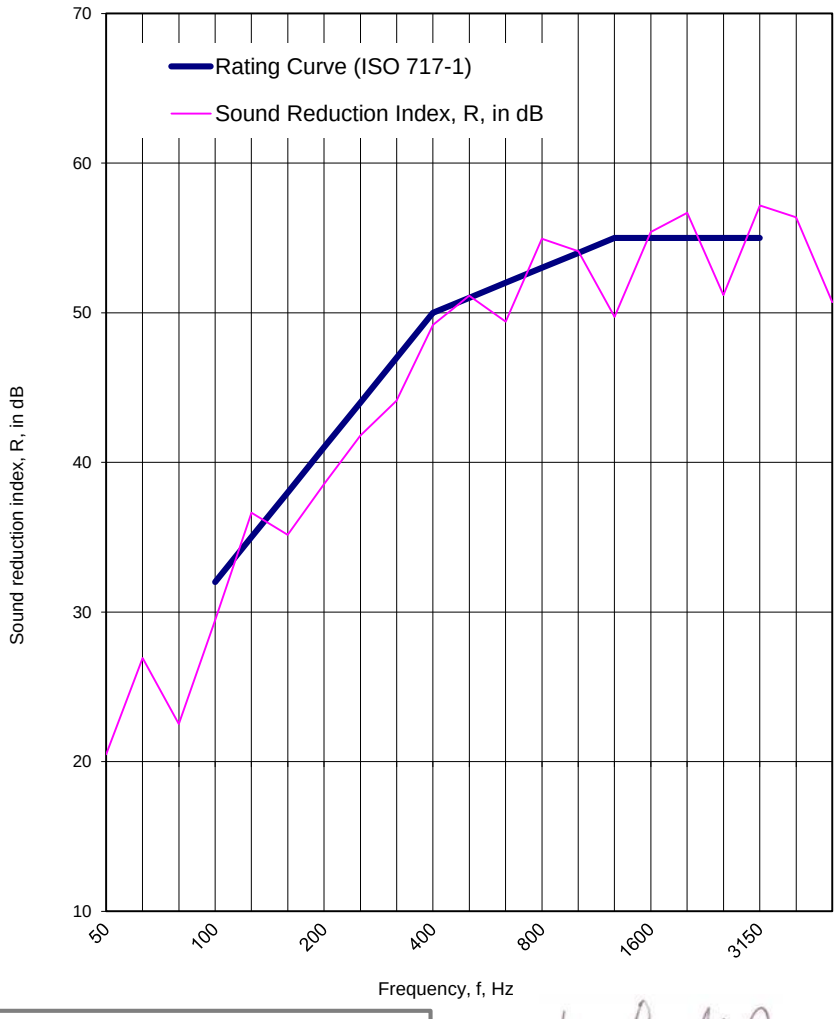
Data sheet Ref. WYC385361/AR1/P015

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		20.5
63+		26.9
80+		22.5
100		29.4
125		36.6
160		35.2
200		38.6
250		41.8
315		44.1
400		49.2
500		51.1
630		49.4
800		54.9
1000		54.1
1250		49.7
1600		55.4
2000		56.7
2500		51.2
3150		57.2
4000		56.4
5000		50.7
AAD		-25.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**51 dB**	$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-12	dB
R_w+C =	**50 dB**	$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-12	dB
R_w+C_{tr} =	**45 dB**	$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material

For detailed technical specification, please refer to Section 2 of the report

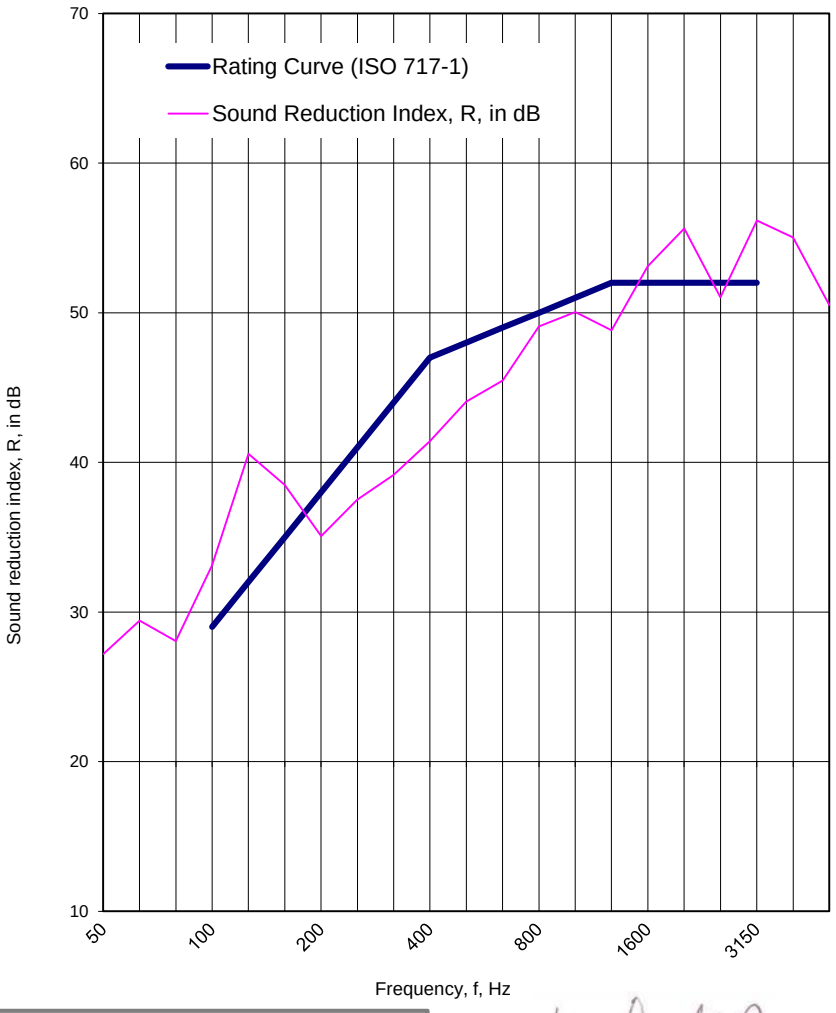
Data sheet Ref. WYC385361/AR1/P016

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB
50+	27.2
63+	29.4
80+	28.1
100	33.1
125	40.6
160	38.5
200	35.1
250	37.5
315	39.2
400	41.4
500	44.0
630	45.5
800	49.1
1000	50.0
1250	48.8
1600	53.1
2000	55.6
2500	51.0
3150	56.2
4000	55.0
5000	50.5
AAD	-30.4

Frequency range for rating in accordance with ISO 717-1



R_w =	48 dB	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-6 dB
R_w+C =	47 dB	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-6 dB
R_w+C_{tr} =	44 dB	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

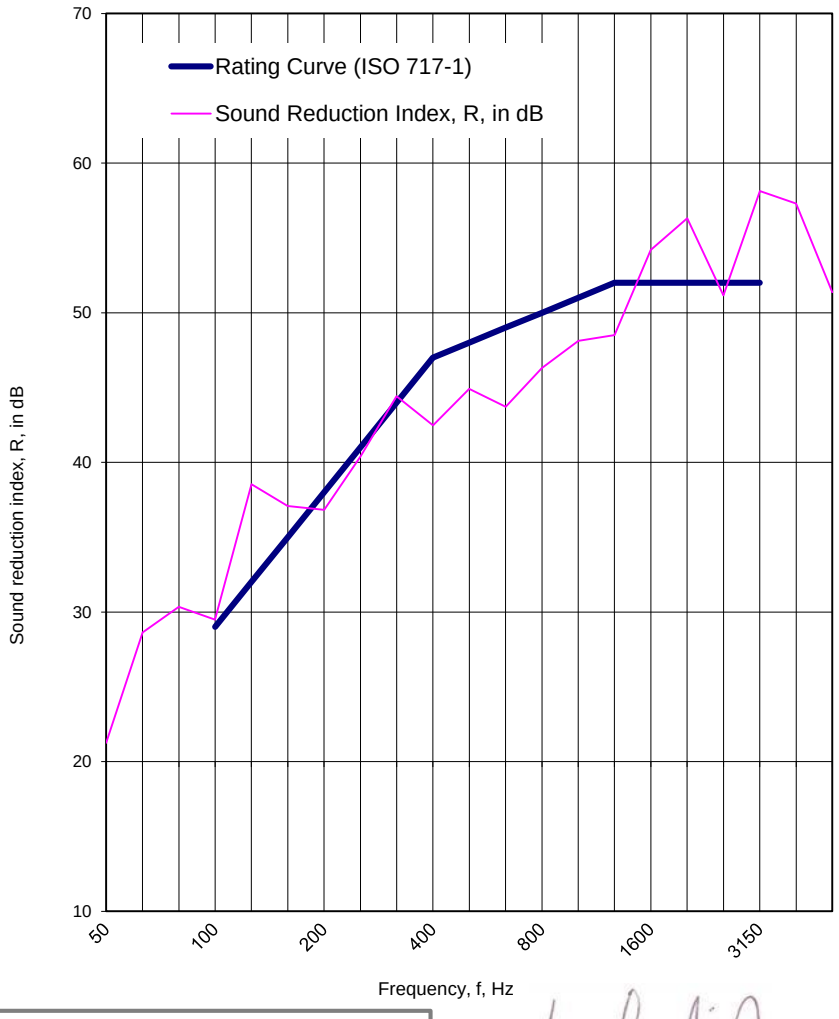
Data sheet Ref. WYC385361/AR1/P017

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		21.3
63+		28.6
80+		30.4
100		29.5
125		38.5
160		37.1
200		36.8
250		40.4
315		44.4
400		42.5
500		44.9
630		43.7
800		46.3
1000		48.1
1250		48.5
1600		54.2
2000		56.3
2500		51.2
3150		58.1
4000		57.3
5000		51.4
AAD		-25.6

Frequency range for rating in accordance with ISO 717-1



R_w =	48 dB	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7	dB
R_w+C =	48 dB	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7	dB
R_w+C_{tr} =	44 dB	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Sealants
Material Type	Sealants
Variations:	
Test Description	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

For detailed technical specification, please refer to Section 2 of the report

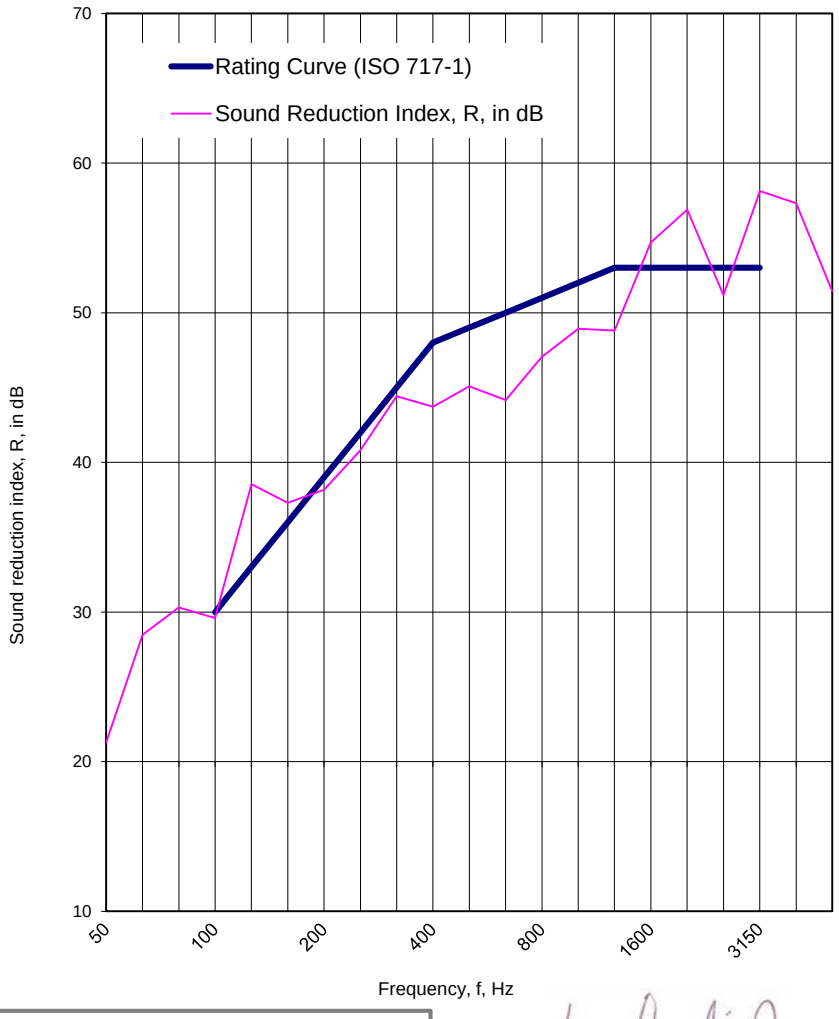
Data sheet Ref. WYC385361/AR1/P018

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB	
50+		21.3
63+		28.5
80+		30.3
100		29.6
125		38.5
160		37.3
200		38.2
250		40.8
315		44.4
400		43.7
500		45.1
630		44.2
800		47.1
1000		48.9
1250		48.8
1600		54.7
2000		56.9
2500		51.2
3150		58.1
4000		57.3
5000		51.4
AAD		-30.1

Frequency range for rating in accordance with ISO 717-1



R_w =	49 dB	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
R_w+C =	48 dB	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
R_w+C_{tr} =	44 dB	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

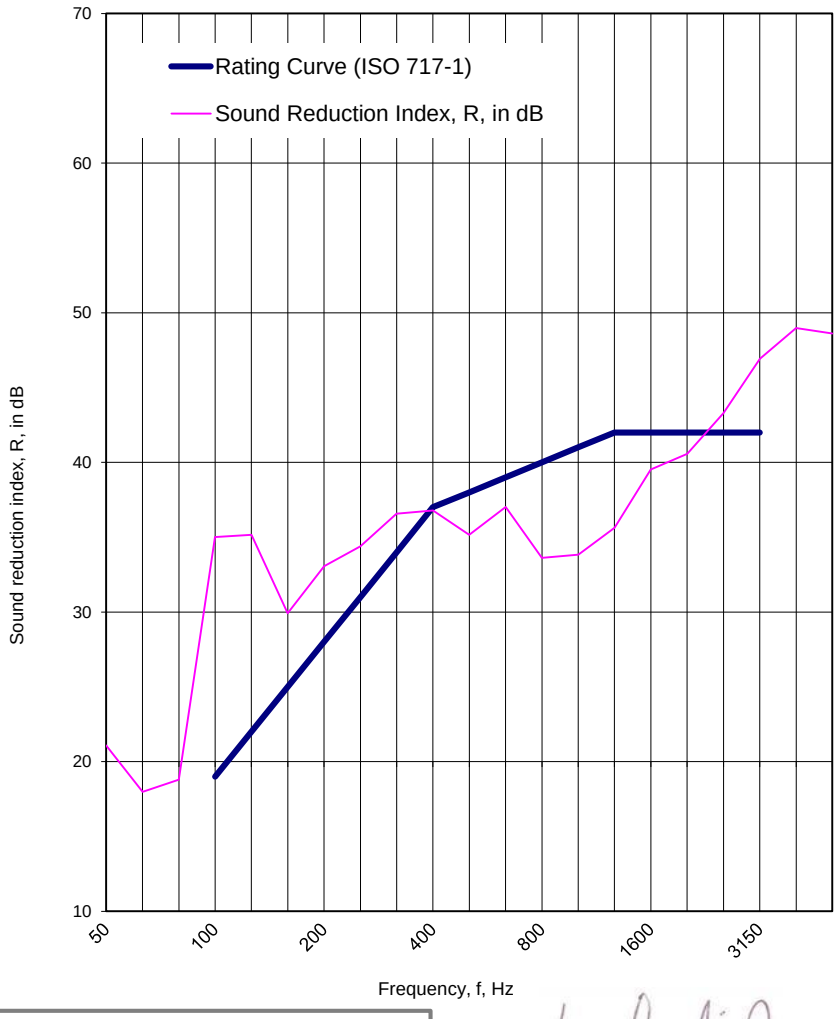
Data sheet Ref. WYC385361/AR1/P019

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		21.1
63+		18.0
80+		18.8
100		35.0
125		35.2
160		29.9
200		33.1
250		34.4
315		36.6
400		36.8
500		35.2
630		37.0
800		33.6
1000		33.8
1250		35.6
1600		39.5
2000		40.6
2500		43.3
3150		46.9
4000		49.0
5000		48.6
AAD		-28.9

Frequency range for rating in accordance with ISO 717-1



R_w =	**38 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-5 dB
R_w+C =	**38 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-5 dB
R_w+C_{tr} =	**36 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-2 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on receive room side)

For detailed technical specification, please refer to Section 2 of the report

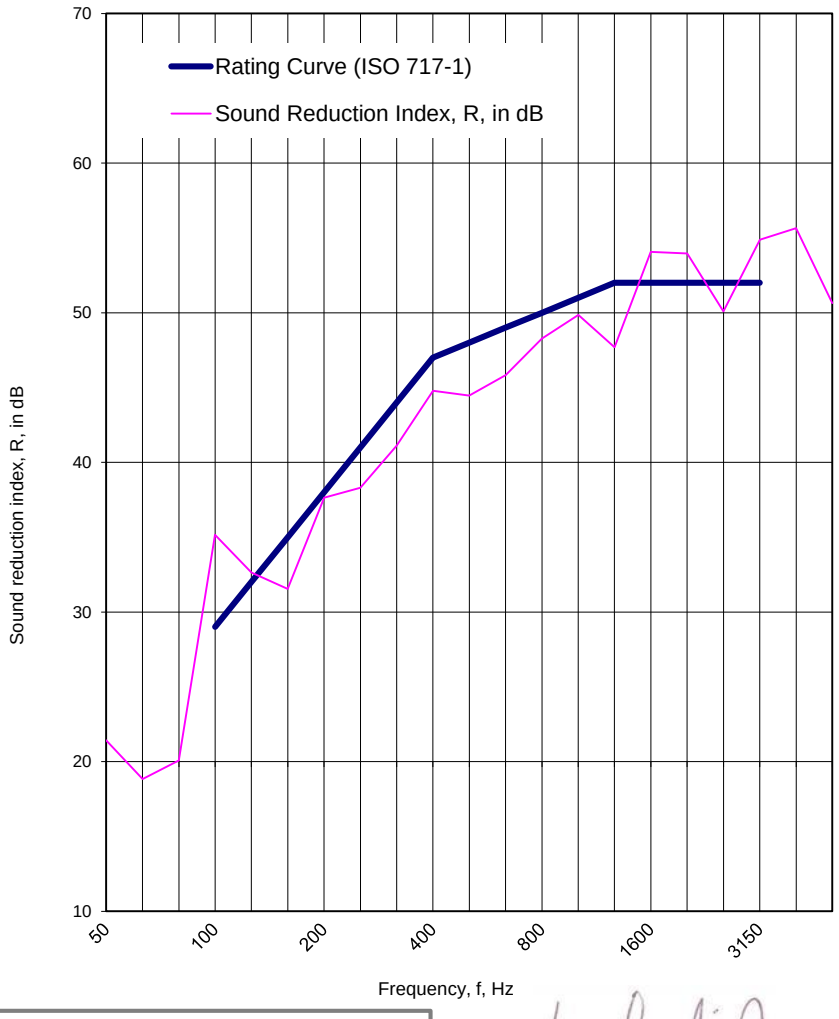
Data sheet Ref. WYC385361/AR1/P020

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		21.4
63+		18.8
80+		20.1
100		35.2
125		32.6
160		31.5
200		37.6
250		38.3
315		41.1
400		44.8
500		44.5
630		45.8
800		48.3
1000		49.9
1250		47.7
1600		54.1
2000		54.0
2500		50.1
3150		54.9
4000		55.7
5000		50.7
AAD		-27.5

Frequency range for rating in accordance with ISO 717-1



R_w =	**48 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-11	dB
R_w+C =	**47 dB**	$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-11	dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	50mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on source room side)

For detailed technical specification, please refer to Section 2 of the report

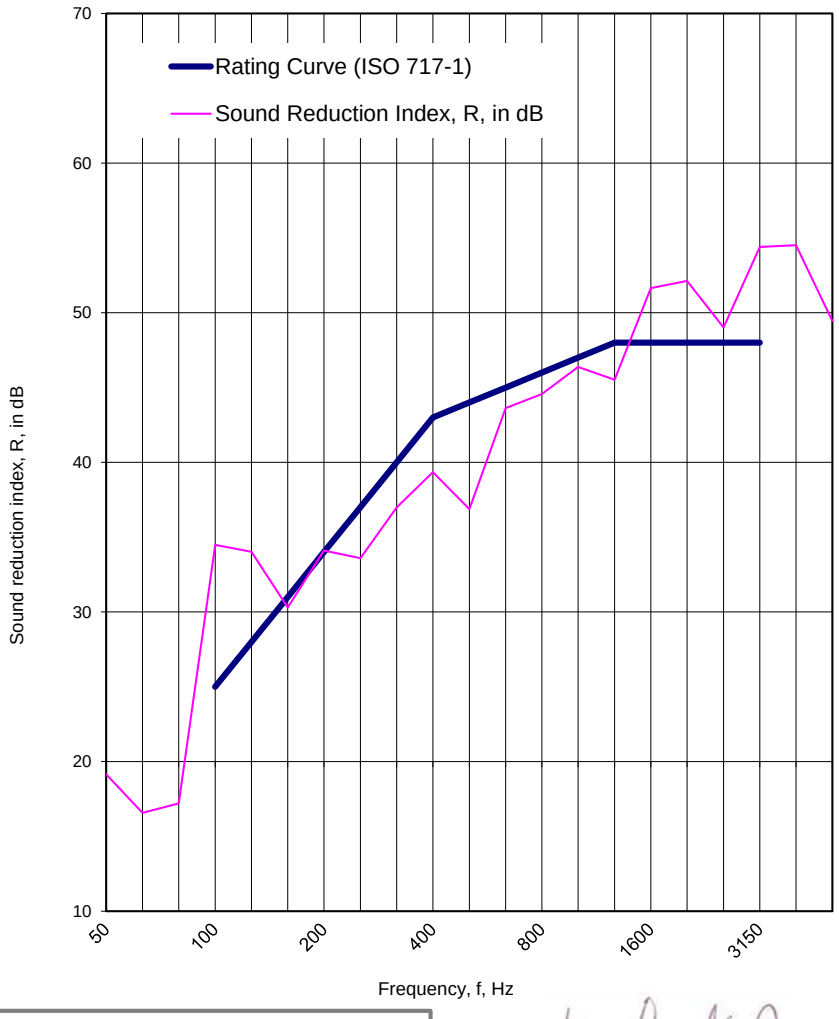
Data sheet Ref. WYC385361/AR1/P022

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		19.1
63+		16.6
80+		17.2
100		34.5
125		34.0
160		30.3
200		34.1
250		33.6
315		37.0
400		39.3
500		36.9
630		43.6
800		44.6
1000		46.4
1250		45.5
1600		51.6
2000		52.1
2500		49.0
3150		54.4
4000		54.5
5000		49.4
AAD		-23.8

Frequency range for rating in accordance with ISO 717-1



R_w =	**44 dB**	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**44 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**41 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	100mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

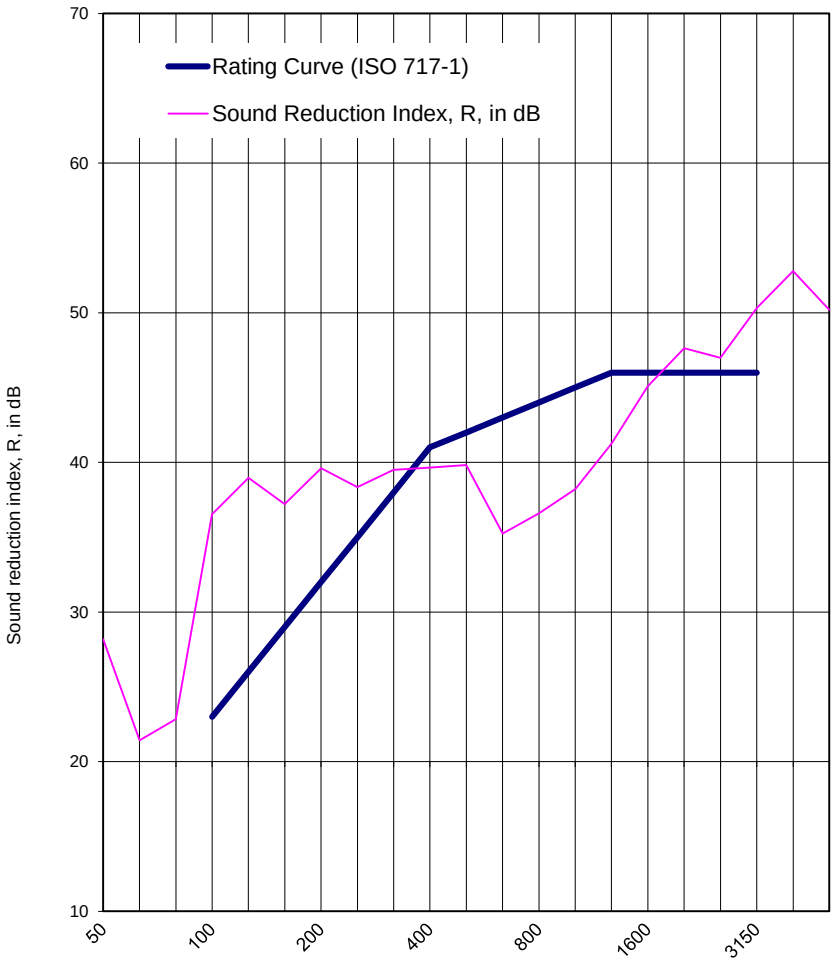
Data sheet Ref. WYC385361/AR1/P023

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		28.2
63+		21.4
80+		22.8
100		36.5
125		39.0
160		37.2
200		39.6
250		38.3
315		39.5
400		39.6
500		39.8
630		35.2
800		36.6
1000		38.2
1250		41.2
1600		45.1
2000		47.6
2500		47.0
3150		50.3
4000		52.8
5000		50.2
AAD		-31.2

Frequency range for rating in accordance with ISO 717-1



R_w =	**42 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-5	dB
R_w+C =	**41 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-5	dB
R_w+C_{tr} =	**39 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	90mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on receive room side)

For detailed technical specification, please refer to Section 2 of the report

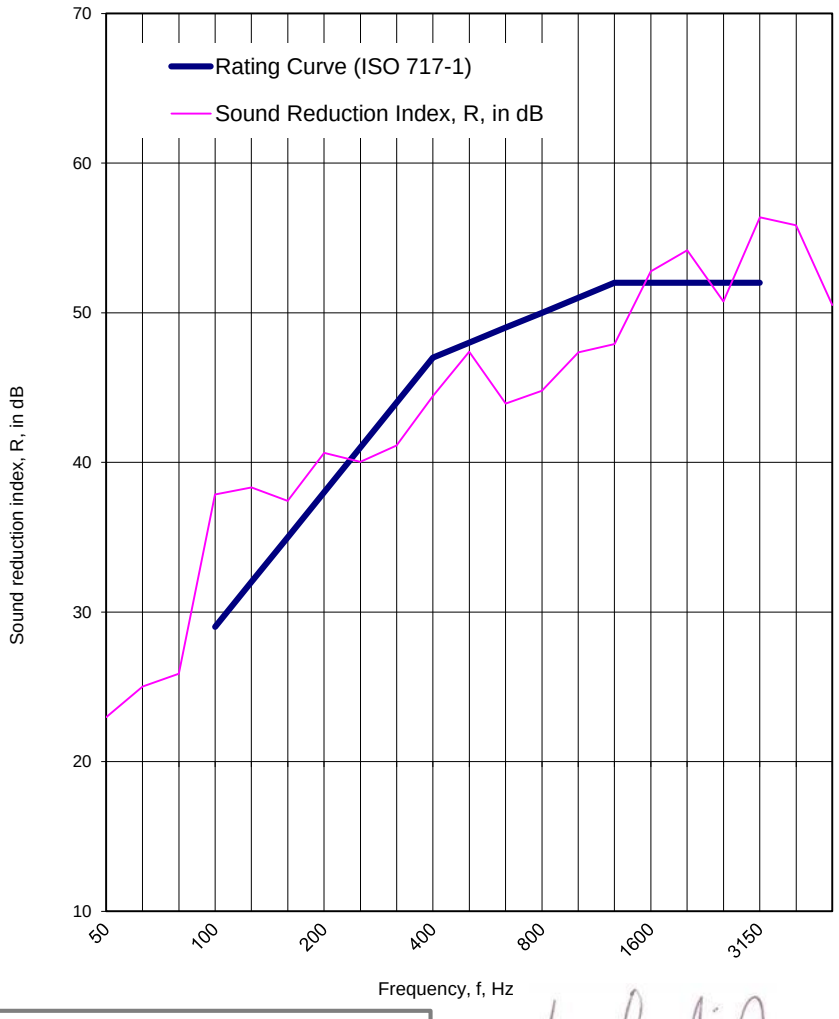
Data sheet Ref. WYC385361/AR1/P024

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz	R ,dB
50+	23.0
63+	25.0
80+	25.9
100	37.9
125	38.3
160	37.4
200	40.6
250	40.0
315	41.1
400	44.4
500	47.4
630	43.9
800	44.8
1000	47.4
1250	47.9
1600	52.8
2000	54.2
2500	50.8
3150	56.4
4000	55.9
5000	50.5
AAD	-26.3

Frequency range for rating in accordance with ISO 717-1



R_w =	48 dB	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7 dB
R_w+C =	48 dB	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7 dB
R_w+C_{tr} =	45 dB	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	90mm thick Sealfire W1000 compound with 50mm Stone Wool Mineral (on source room side)

For detailed technical specification, please refer to Section 2 of the report

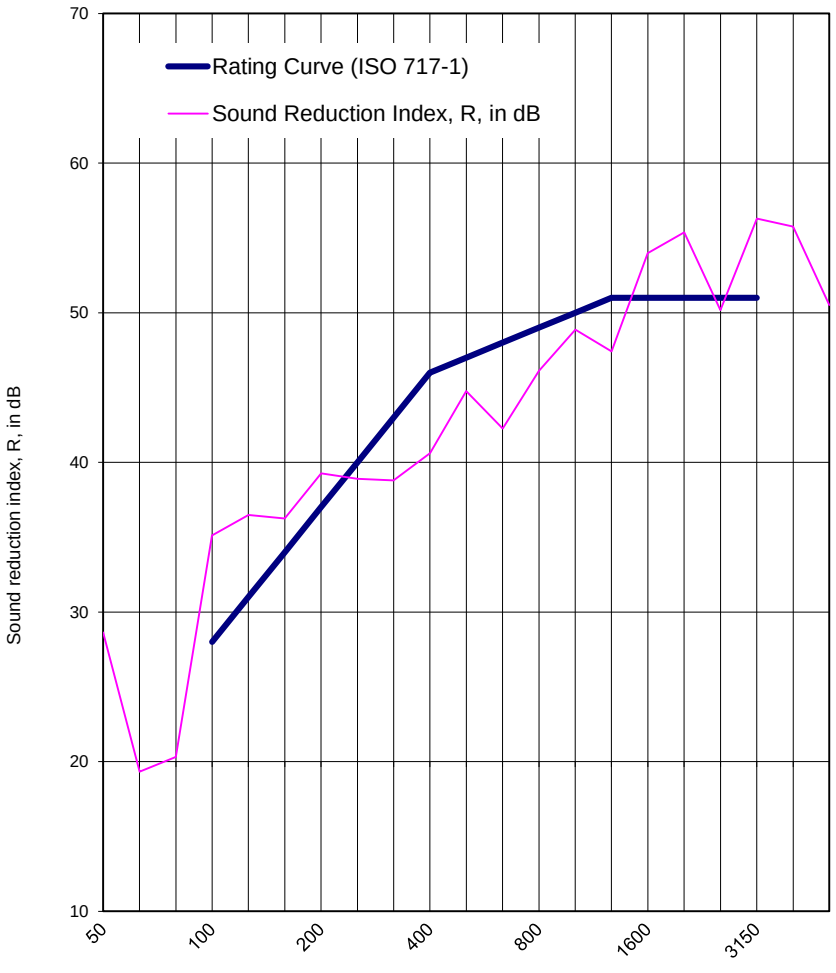
Data sheet Ref. WYC385361/AR1/P025

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		28.6
63+		19.3
80+		20.3
100		35.1
125		36.5
160		36.3
200		39.3
250		38.9
315		38.8
400		40.6
500		44.8
630		42.3
800		46.1
1000		48.9
1250		47.4
1600		54.0
2000		55.4
2500		50.2
3150		56.3
4000		55.8
5000		50.5
AAD		-27.1

Frequency range for rating in accordance with ISO 717-1



R_w =	**47 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-10	dB
R_w+C =	**47 dB**	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
R_w+C_{tr} =	**44 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Sponsor:	**Wurth Oy**
Product Name/Desc.	**See Variation**
Product Type	Compound
Material Type	Compound
Variations:	
Test Description	150mm thick Sealfire W1000 compound

For detailed technical specification, please refer to Section 2 of the report

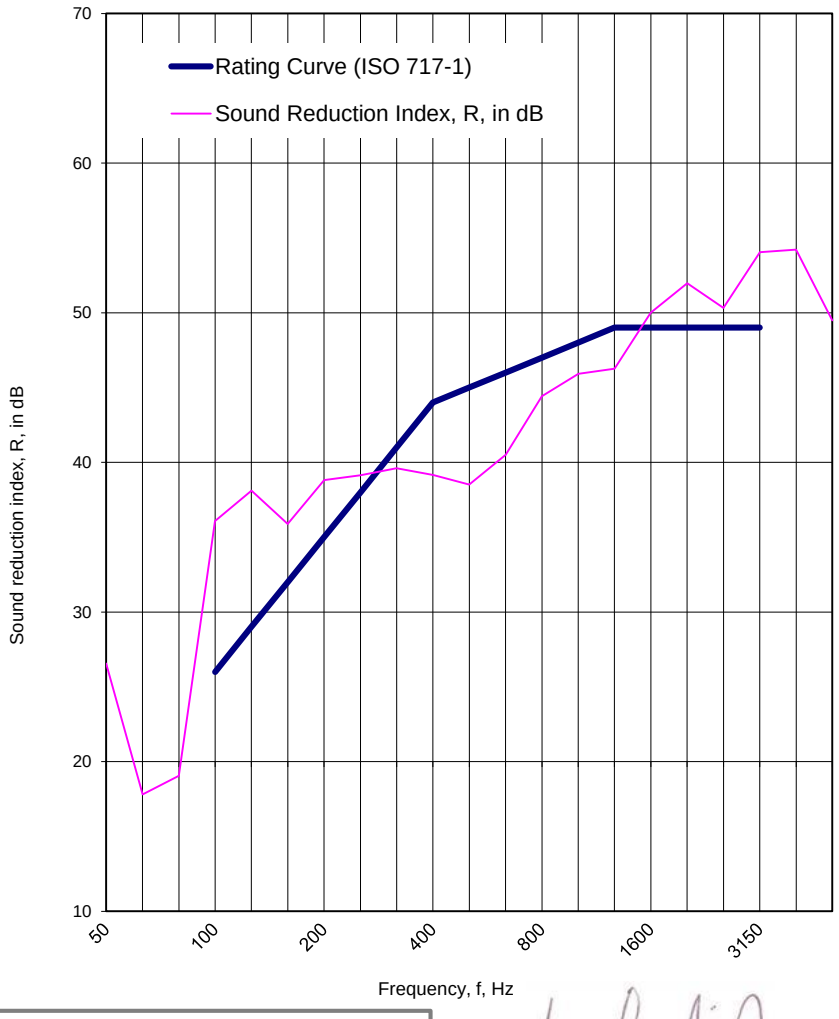
Data sheet Ref. WYC385361/AR1/P026

Date of Test: 12/07/2017

Source Room Volume:		82.40	m^3
Receive Room Volume:		69.60	m^3
Specimen Installed By:		Exova	
Area of Specimen (S):		1.90	m^2
	Sour.	Rec.	
Temp. in Test Rooms:	18.0	18.0	°C
Static Pressure:	99500.0	99600.0	Pa
Humidity in Test Rooms:	62.0	61.0	%

f, Hz		*R* ,dB
50+		26.5
63+		17.8
80+		19.1
100		36.1
125		38.1
160		35.9
200		38.8
250		39.1
315		39.6
400		39.2
500		38.5
630		40.5
800		44.4
1000		45.9
1250		46.3
1600		50.0
2000		52.0
2500		50.3
3150		54.1
4000		54.2
5000		49.5
AAD		-25.6

Frequency range for rating in accordance with ISO 717-1



R_w =	**45 dB**	$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9	dB
R_w+C =	**45 dB**	$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-9	dB
R_w+C_{tr} =	**43 dB**	$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-2	dB

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Appendix 4 – Summary of Results & Test Data Sheets – Dnew (22 Pages)

Product Type	Sealants / Compounds

Data Sheet Ref.	**Variations**		**Test Result D_{new} ($C;C_{tr}$)**
WYC385361/AR1/P003	Test Description	Test of Partition wall. See Appendix 5 for construction detail	61 (-1;-6) dB
WYC385361/AR1P004	Test Description	Test of partition wall with aperture for sealants not filled in	15 (1;0) dB
WYC385361/AR1/P005	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material)	55 (1;-4) dB
WYC385361/AR1/P006	Test Description	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette	54 (0;-3) dB
WYC385361/AR1/P007	Test Description	Sealfire W100. 50mm wide x 25mm thick (no backing material)	58 (-1;-5) dB
WYC385361/AR1/P008	Test Description	Sealfire W200. 50mm wide x 25mm thick (no backing material)	57 (-1;-6) dB
WYC385361/AR1/P009	Test Description	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)	58 (-1;-5) dB
WYC385361/AR1P010	Test Description	Sealfire W250. 50mm wide x 25mm thick (no backing material)	57 (-1;-5) dB
WYC385361/AR1/P012	Test Description	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material	57 (-1;-6) dB
WYC385361/AR1/P013	Test Description	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing	57 (-1;-5) dB
WYC385361/AR1/P014	Test Description	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material	54 (-1;-4) dB
WYC385361/AR1/P015	Test Description	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing	59 (-2;-7) dB
WYC385361/AR1/P016	Test Description	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material	55 (0;-4) dB
WYC385361/AR1/P017	Test Description	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	56 (-1;-5) dB
WYC385361/AR1/P018	Test Description	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing	56 (0;-4) dB
WYC385361/AR1/P019	Test Description	50mm thick Sealfire W1000 Compound	45 (0;-2) dB
WYC385361/AR1/P020	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	55 (0;-4) dB
WYC385361/AR1/P022	Test Description	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	52 (-1;-4) dB
WYC385361/AR1/P023	Test Description	100mm thick Sealfire W1000 Compound	49 (0;-2) dB
WYC385361/AR1/P024	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)	56 (-1;-4) dB
WYC385361/AR1P025	Test Description	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)	54 (0;-3) dB
WYC385361/AR1/P026	Test Description	150mm thick Sealfire W1000 Compound	53 (-1;-3) dB

Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Partition Wall
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

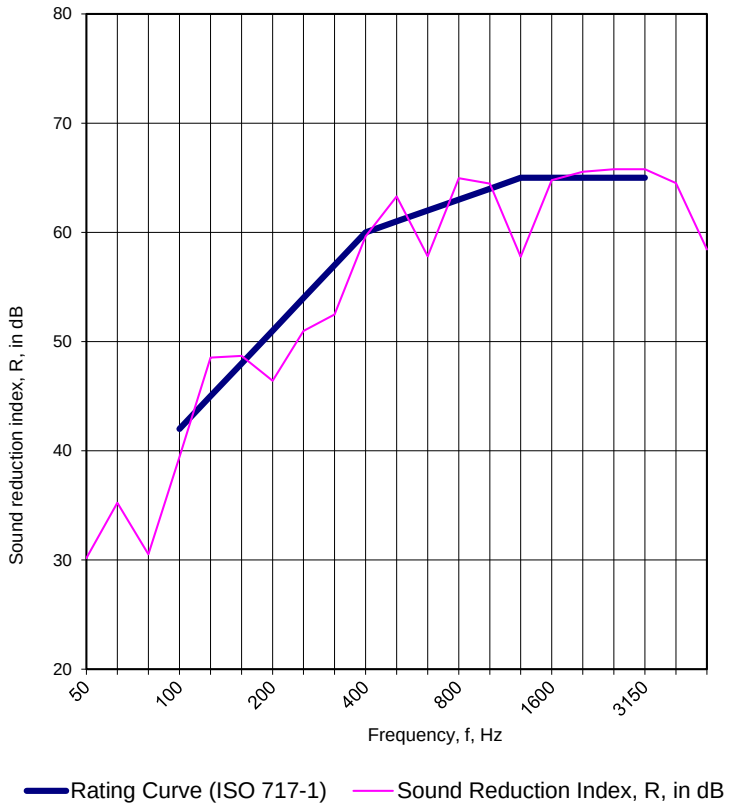
Ref. No.: WYC385361/AR1/P003
Date of Test: 12/07/2017

Source Room Volume: 88.80 m^3
Receive Room Volume: 67.50 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Test of Partition wall. See Appendix 2 for construction detail

f, Hz		*R* ,dB
50+		30.2
63+		35.2
80+		30.5
100		39.4
125		48.5
160		48.7
200		46.4
250		51.0
315		52.5
400		59.6
500		63.3
630		57.8
800		65.0
1000		64.5
1250		57.8
1600		64.8
2000		65.5
2500		65.8
3150		65.8
4000		64.5
5000		58.4
AAD		-26.7

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	**61 dB**
$D_{n,e,w}+C$ =	**60 dB**
$D_{n,e,w}+C_{tr}$ =	**55 dB**

$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-13 dB
$C_{(50-5000)}$ =	-3 dB	$C_{tr\ (50-5000)}$ =	-13 dB
$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Partition Wall
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

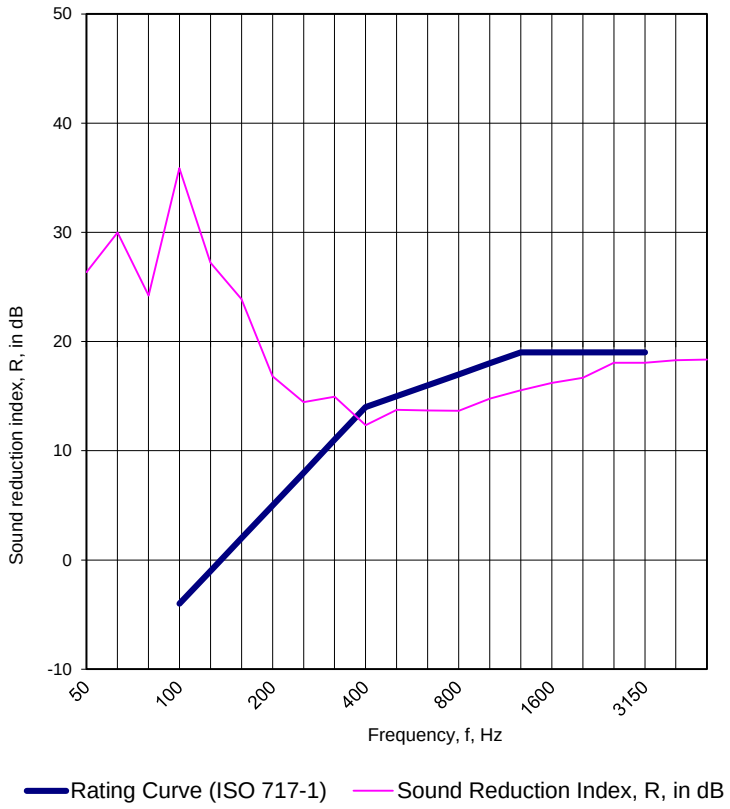
Ref. No.: WYC385361/AR1/P004
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Test of partition wall with aperture for sealants not filled in

f, Hz		*R* ,dB
50+		26.4
63+		30.0
80+		24.2
100		35.9
125		27.2
160		23.9
200		16.8
250		14.4
315		14.9
400		12.3
500		13.8
630		13.7
800		13.7
1000		14.8
1250		15.5
1600		16.2
2000		16.7
2500		18.1
3150		18.1
4000		18.3
5000		18.3
AAD		-22.2

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	15 dB
$D_{n,e,w}+C$ =	16 dB
$D_{n,e,w}+C_{tr}$ =	15 dB

$C_{(50-3150)}$ =	1	dB	$C_{tr\ (50-3150)}$ =	0	dB
$C_{(50-5000)}$ =	1	dB	$C_{tr\ (50-5000)}$ =	0	dB
$C_{(100-5000)}$ =	1	dB	$C_{tr\ (100-5000)}$ =	0	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W150
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

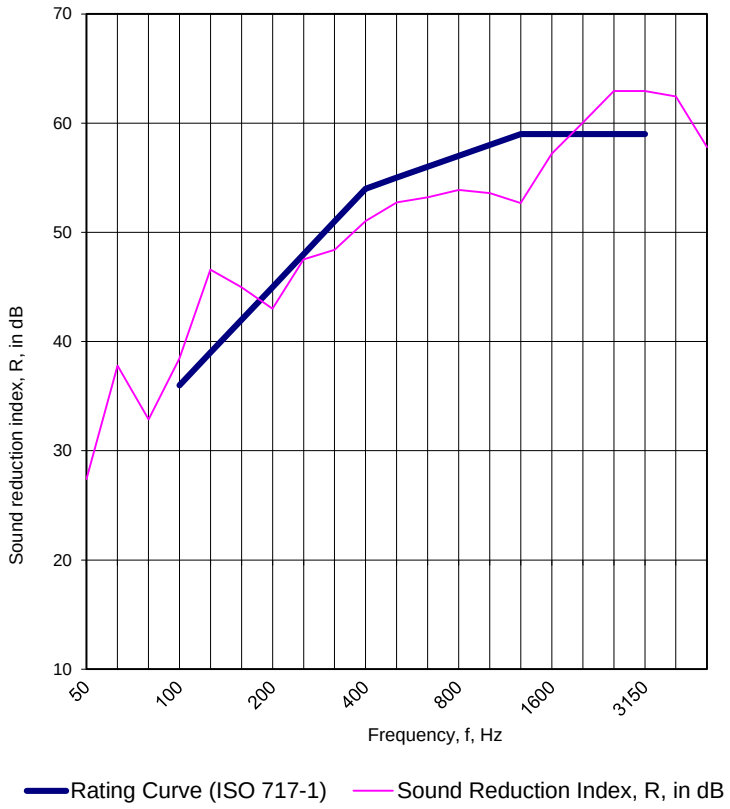
Ref. No.: WYC385361/AR1/P005
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W150. 50mm wide x 25mm thick (no backing material)

f, Hz		*R* ,dB
50+		27.4
63+		37.8
80+		32.9
100		38.4
125		46.6
160		45.0
200		43.0
250		47.5
315		48.4
400		51.0
500		52.7
630		53.2
800		53.9
1000		53.6
1250		52.7
1600		57.2
2000		60.1
2500		62.9
3150		62.9
4000		62.5
5000		57.8
AAD		-28.7

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	**55 dB**
$D_{n,e,w}+C$ =	**54 dB**
$D_{n,e,w}+C_{tr}$ =	**51 dB**

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-8 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

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Test Specimen Name: Sealfire W150
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

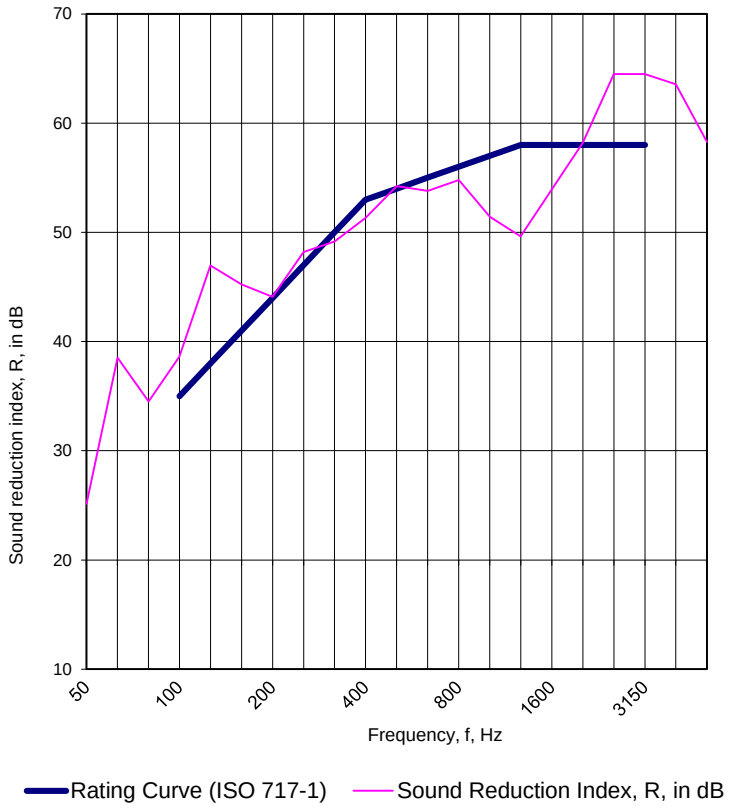
Ref. No.: WYC385361/AR1/P006
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W150 . 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette

f, Hz		*R* ,dB
50+		25.1
63+		38.5
80+		34.5
100		38.6
125		47.0
160		45.2
200		44.1
250		48.2
315		49.2
400		51.3
500		54.2
630		53.8
800		54.8
1000		51.4
1250		49.6
1600		53.9
2000		58.2
2500		64.5
3150		64.5
4000		63.5
5000		58.3
AAD		-22.9

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	54 dB
$D_{n,e,w}+C$ =	54 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7 dB
$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

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Test Specimen Name: Sealfire W100
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

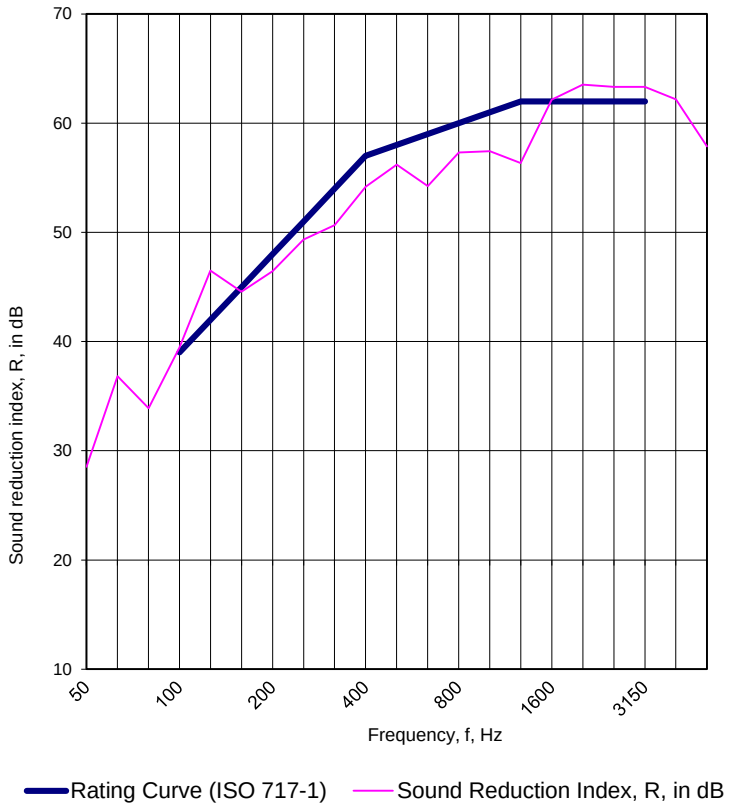
Ref. No.: WYC385361/AR1/P007
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W100. 50mm wide x 25mm thick (no backing material)

f, Hz		R ,dB
50+		28.5
63+		36.8
80+		33.9
100		39.4
125		46.5
160		44.6
200		46.4
250		49.3
315		50.7
400		54.2
500		56.2
630		54.2
800		57.3
1000		57.4
1250		56.3
1600		62.1
2000		63.5
2500		63.3
3150		63.3
4000		62.2
5000		57.9
AAD		-28.3

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	58 dB
$D_{n,e,w}+C$ =	57 dB
$D_{n,e,w}+C_{tr}$ =	53 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-9 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-9 dB
$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W200
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

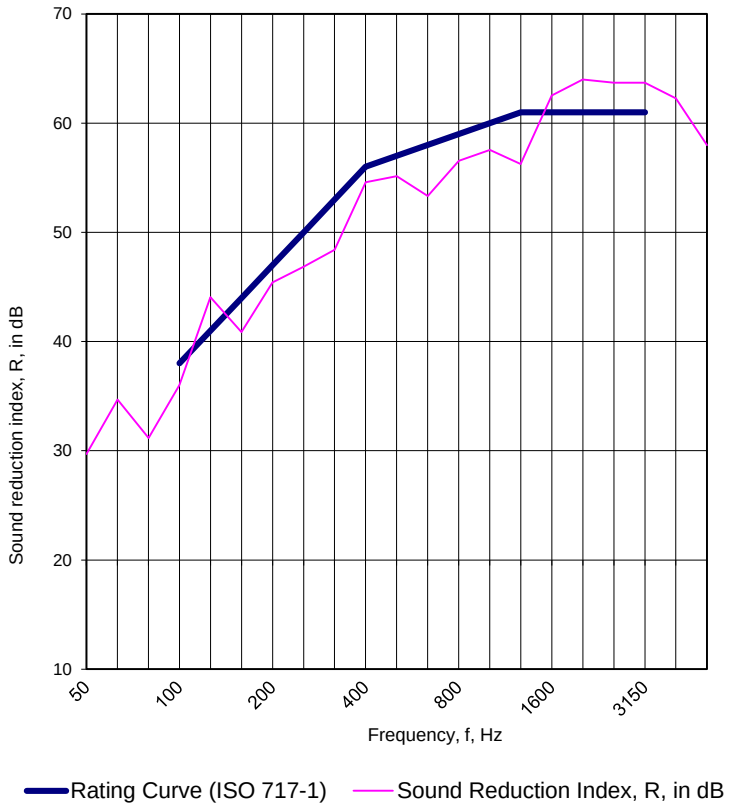
Ref. No.: WYC385361/AR1/P008
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W200. 50mm wide x 25mm thick (no backing material)

f, Hz		*R* ,dB
50+		29.7
63+		34.7
80+		31.2
100		36.0
125		44.1
160		40.9
200		45.4
250		46.8
315		48.4
400		54.6
500		55.2
630		53.3
800		56.6
1000		57.6
1250		56.2
1600		62.5
2000		64.0
2500		63.7
3150		63.7
4000		62.3
5000		58.0
AAD		-32.0

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	57 dB
$D_{n,e,w}+C$ =	56 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10 dB
$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W200
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

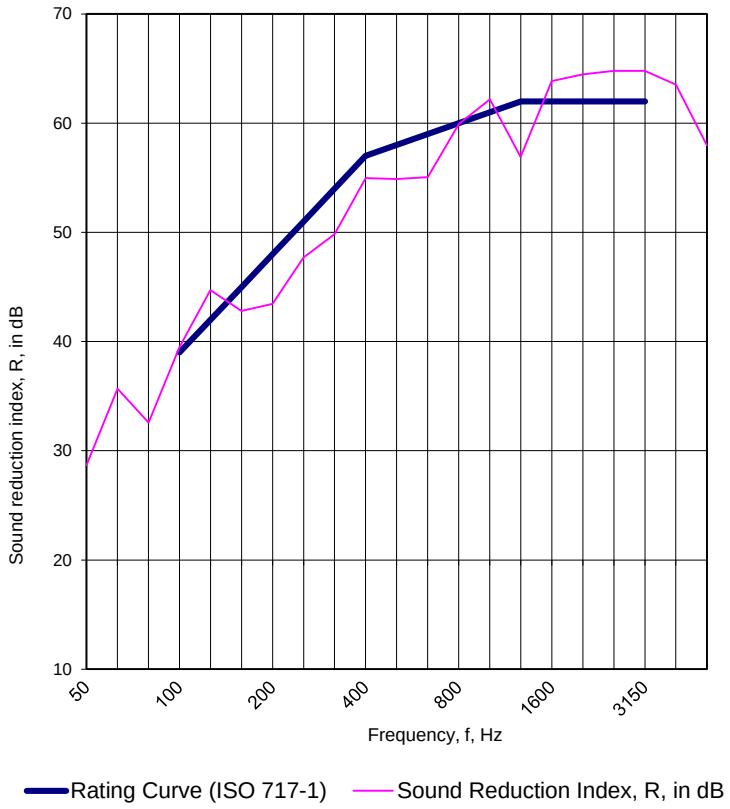
Ref. No.: WYC385361/AR1/P009
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)

f, Hz		*R* ,dB
50+		28.7
63+		35.7
80+		32.6
100		39.5
125		44.7
160		42.8
200		43.5
250		47.7
315		49.8
400		55.0
500		54.9
630		55.1
800		59.9
1000		62.2
1250		56.9
1600		63.8
2000		64.5
2500		64.8
3150		64.8
4000		63.5
5000		58.0
AAD		-28.5

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	58 dB
$D_{n,e,w}+C$ =	57 dB
$D_{n,e,w}+C_{tr}$ =	53 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10	dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10	dB
$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-6	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W250
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

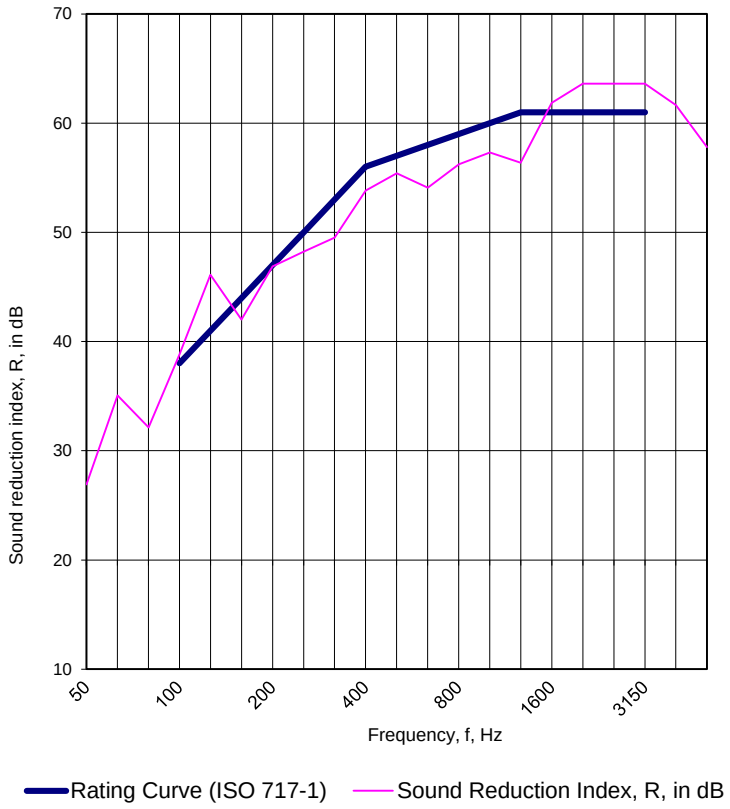
Ref. No.: WYC385361/AR1/P010
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W250. 50mm wide x 25mm thick (no backing material)

f, Hz		*R* ,dB
50+		26.9
63+		35.1
80+		32.1
100		38.8
125		46.1
160		42.0
200		46.9
250		48.2
315		49.5
400		53.8
500		55.4
630		54.1
800		56.2
1000		57.3
1250		56.4
1600		61.9
2000		63.6
2500		63.6
3150		63.6
4000		61.7
5000		57.8
AAD		-25.1

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	57 dB
$D_{n,e,w}+C$ =	56 dB
$D_{n,e,w}+C_{tr}$ =	52 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W100
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

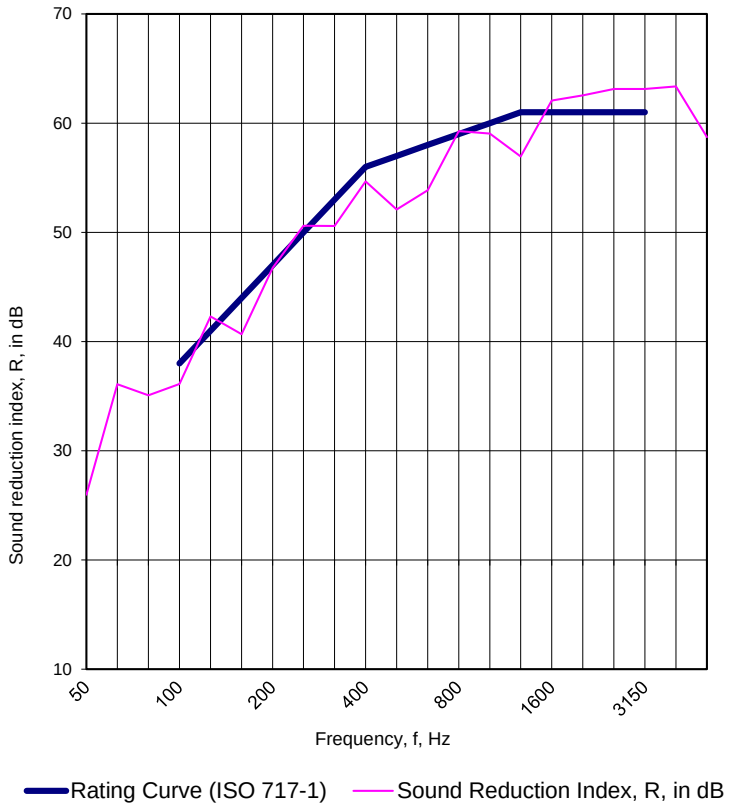
Ref. No.: WYC385361/AR1/P012
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material

f, Hz		*R* ,dB
50+		26.0
63+		36.1
80+		35.1
100		36.1
125		42.3
160		40.7
200		46.8
250		50.6
315		50.6
400		54.7
500		52.1
630		53.9
800		59.3
1000		59.1
1250		57.0
1600		62.1
2000		62.5
2500		63.1
3150		63.1
4000		63.4
5000		58.7
AAD		-23.2

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	57 dB
$D_{n,e,w}+C$ =	56 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-6 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

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Test Specimen Name: Sealfire W150
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

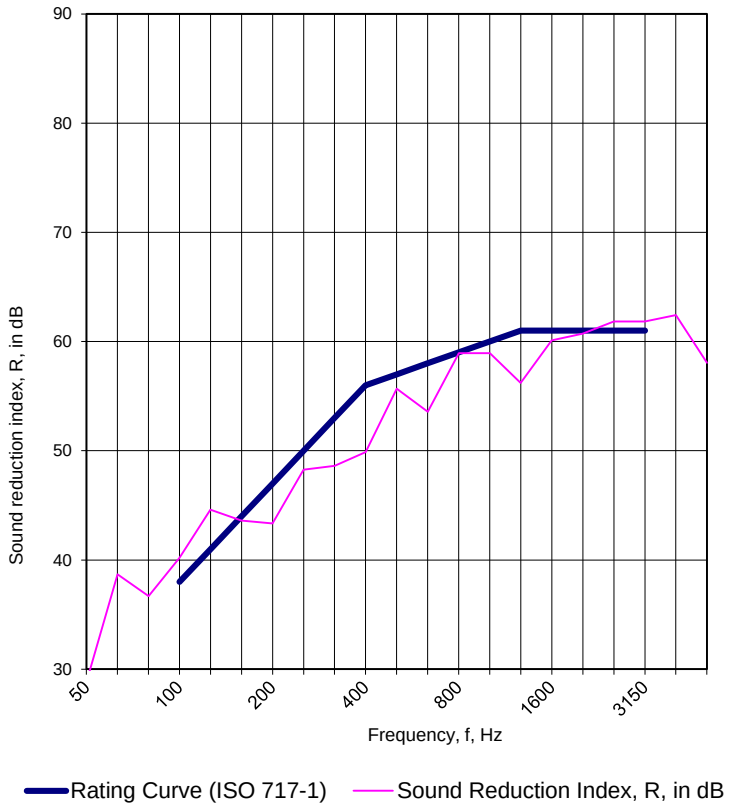
Ref. No.: WYC385361/AR1/P013
Date of Test: 12/07/2017

Source Room Volume: 88.80 m^3
Receive Room Volume: 67.50 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing

f, Hz		*R* ,dB
50+		28.8
63+		38.7
80+		36.7
100		40.2
125		44.6
160		43.6
200		43.3
250		48.3
315		48.6
400		49.9
500		55.7
630		53.6
800		58.9
1000		58.9
1250		56.2
1600		60.1
2000		60.7
2500		61.8
3150		61.8
4000		62.4
5000		58.1
AAD		-29.1

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	**57 dB**
$D_{n,e,w}+C$ =	**56 dB**
$D_{n,e,w}+C_{tr}$ =	**52 dB**

$C_{(50-3150)}$ =	-2	dB	$C_{tr\ (50-3150)}$ =	-8	dB
$C_{(50-5000)}$ =	-1	dB	$C_{tr\ (50-5000)}$ =	-8	dB
$C_{(100-5000)}$ =	-1	dB	$C_{tr\ (100-5000)}$ =	-5	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W200
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

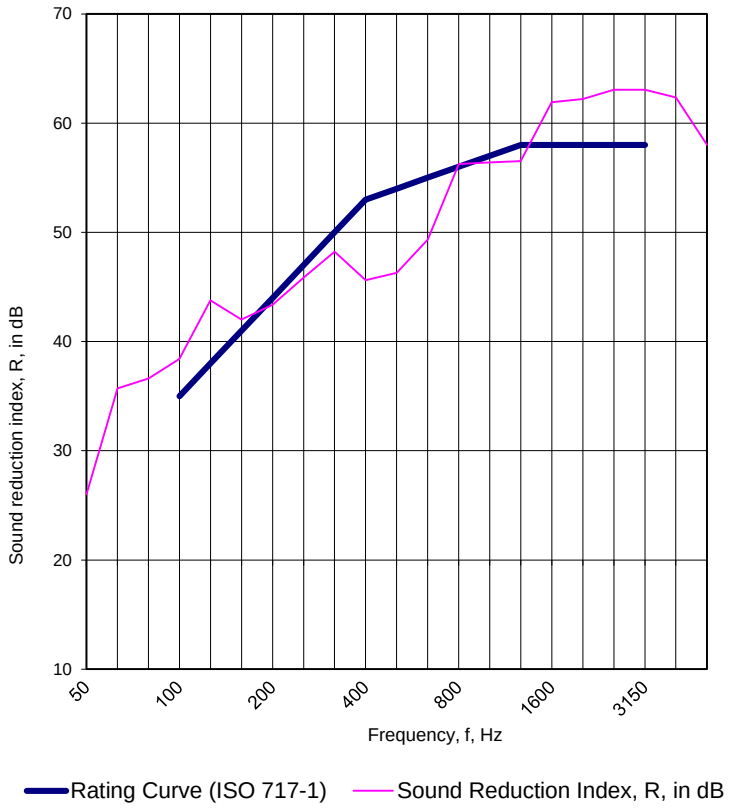
Ref. No.: WYC385361/AR1/P014
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material

f, Hz		*R* ,dB
50+		26.0
63+		35.7
80+		36.6
100		38.4
125		43.8
160		42.0
200		43.4
250		45.8
315		48.2
400		45.6
500		46.3
630		49.3
800		56.2
1000		56.4
1250		56.5
1600		61.9
2000		62.2
2500		63.1
3150		63.1
4000		62.4
5000		58.0
AAD		-26.4

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	**54 dB**
$D_{n,e,w}+C$ =	**53 dB**
$D_{n,e,w}+C_{tr}$ =	**50 dB**

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-7	dB
$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-7	dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W200
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

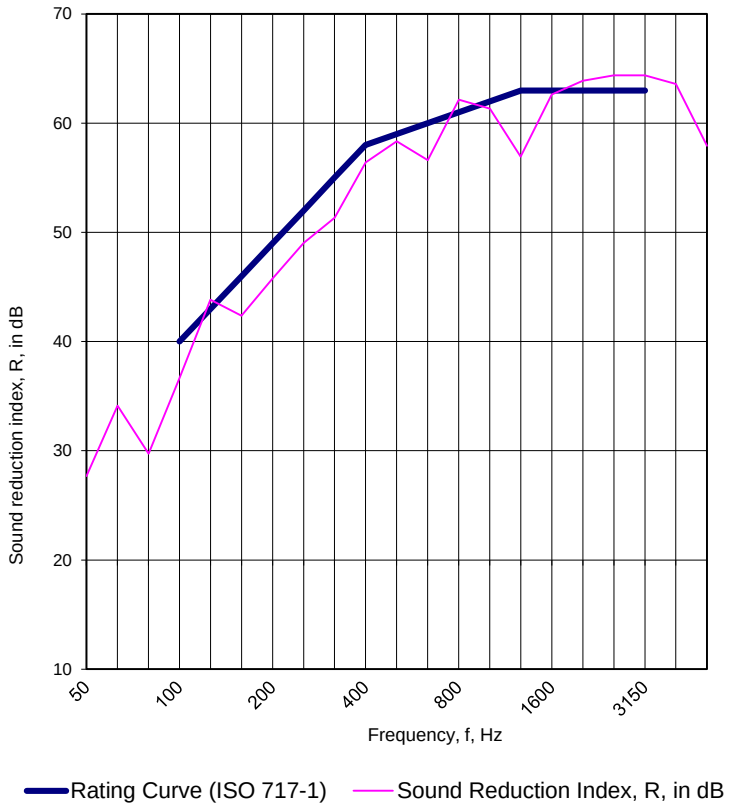
Ref. No.: WYC385361/AR1/P015
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing

f, Hz		*R* ,dB
50+		27.7
63+		34.1
80+		29.7
100		36.6
125		43.8
160		42.4
200		45.8
250		49.0
315		51.3
400		56.4
500		58.3
630		56.6
800		62.2
1000		61.3
1250		56.9
1600		62.6
2000		63.9
2500		64.4
3150		64.4
4000		63.6
5000		57.9
AAD		-29.7

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	59 dB
$D_{n,e,w}+C$ =	57 dB
$D_{n,e,w}+C_{tr}$ =	52 dB

$C_{(50-3150)}$ =	-3 dB	$C_{tr\ (50-3150)}$ =	-12 dB
$C_{(50-5000)}$ =	-2 dB	$C_{tr\ (50-5000)}$ =	-12 dB
$C_{(100-5000)}$ =	-1 dB	$C_{tr\ (100-5000)}$ =	-7 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W250
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

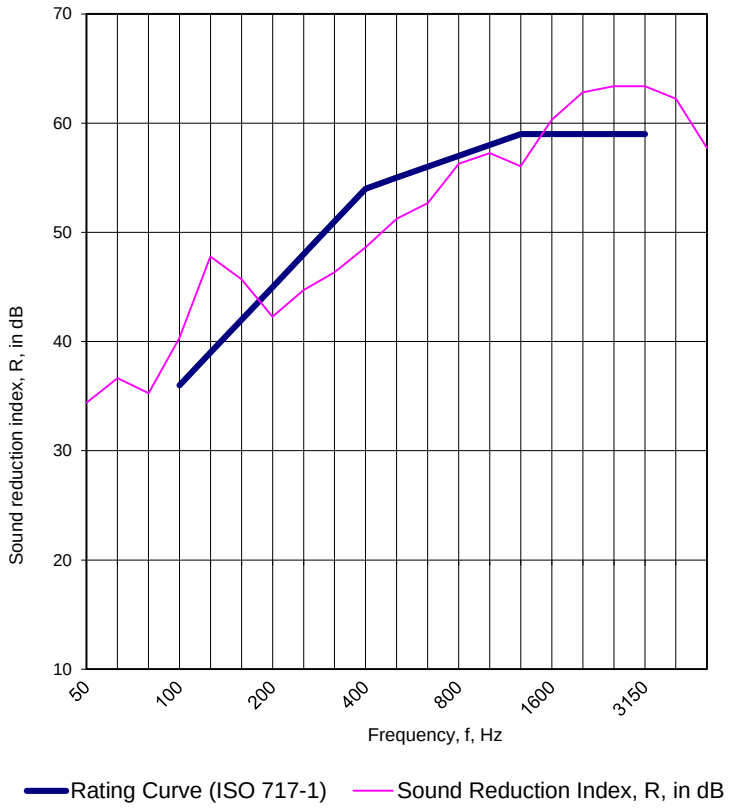
Ref. No.: WYC385361/AR1/P016
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material

f, Hz		*R* ,dB
50+		34.4
63+		36.6
80+		35.3
100		40.3
125		47.8
160		45.7
200		42.3
250		44.7
315		46.4
400		48.6
500		51.3
630		52.7
800		56.3
1000		57.3
1250		56.0
1600		60.3
2000		62.8
2500		63.4
3150		63.4
4000		62.2
5000		57.7
AAD		-27.5

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	55 dB
$D_{n,e,w}+C$ =	55 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-1	dB	$C_{tr\ (50-3150)}$ =	-6	dB
$C_{(50-5000)}$ =	0	dB	$C_{tr\ (50-5000)}$ =	-6	dB
$C_{(100-5000)}$ =	0	dB	$C_{tr\ (100-5000)}$ =	-4	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W250
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

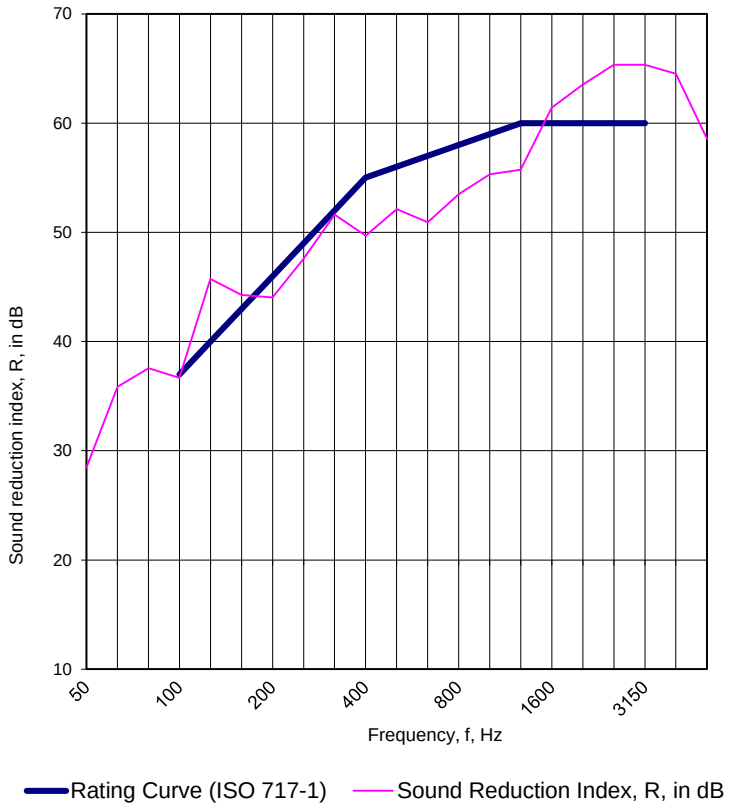
Ref. No.: WYC385361/AR1/P017
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

f, Hz	*R*, dB	
50+		28.5
63+		35.8
80+		37.6
100		36.7
125		45.7
160		44.3
200		44.0
250		47.6
315		51.6
400		49.7
500		52.1
630		50.9
800		53.5
1000		55.3
1250		55.7
1600		61.4
2000		63.5
2500		65.3
3150		65.3
4000		64.5
5000		58.6
AAD		-31.8

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	56 dB
$D_{n,e,w}+C$ =	55 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W100
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

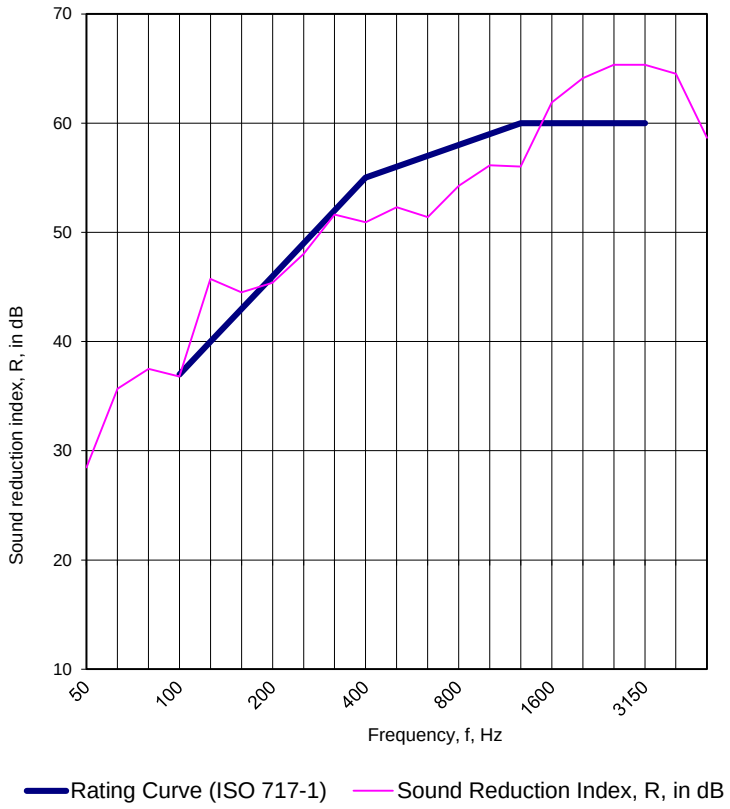
Ref. No.: WYC385361/AR1/P018
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing

f, Hz		*R* ,dB
50+		28.5
63+		35.7
80+		37.5
100		36.8
125		45.7
160		44.5
200		45.4
250		48.0
315		51.6
400		50.9
500		52.3
630		51.4
800		54.3
1000		56.2
1250		56.0
1600		61.9
2000		64.1
2500		65.3
3150		65.3
4000		64.5
5000		58.7
AAD		-26.1

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	56 dB
$D_{n,e,w}+C$ =	56 dB
$D_{n,e,w}+C_{tr}$ =	52 dB

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-8 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-5 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

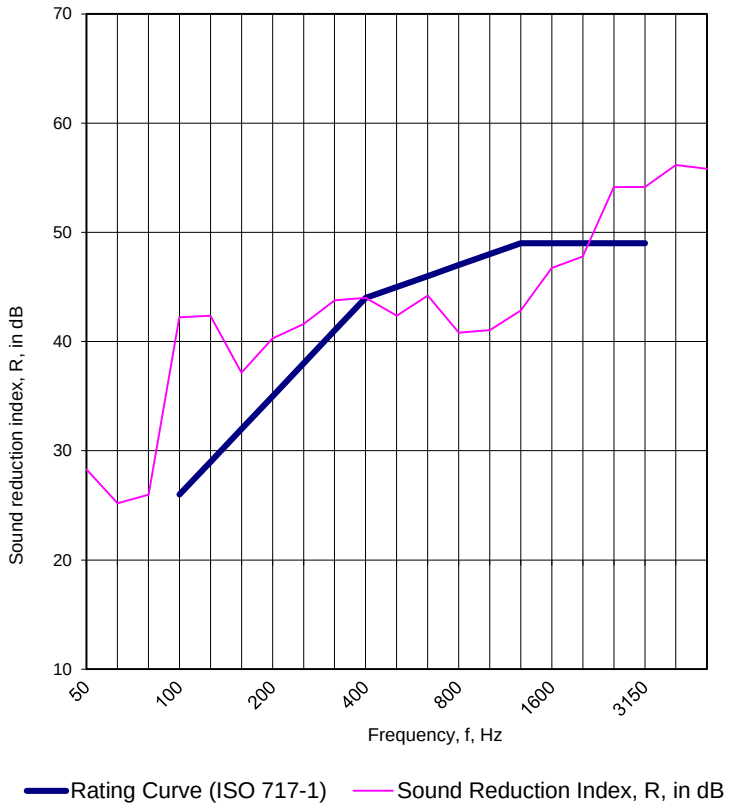
Ref. No.: WYC385361/AR1/P019
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 50mm thick Sealfire W1000 Compound

f, Hz		*R* ,dB
50+		28.3
63+		25.2
80+		26.0
100		42.2
125		42.4
160		37.1
200		40.3
250		41.6
315		43.8
400		44.0
500		42.4
630		44.2
800		40.8
1000		41.0
1250		42.8
1600		46.7
2000		47.8
2500		54.1
3150		54.1
4000		56.2
5000		55.8
AAD		-27.2

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	45 dB
$D_{n,e,w}+C$ =	45 dB
$D_{n,e,w}+C_{tr}$ =	43 dB

$C_{(50-3150)}$ =	0	dB	$C_{tr\ (50-3150)}$ =	-5	dB
$C_{(50-5000)}$ =	0	dB	$C_{tr\ (50-5000)}$ =	-5	dB
$C_{(100-5000)}$ =	0	dB	$C_{tr\ (100-5000)}$ =	-2	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

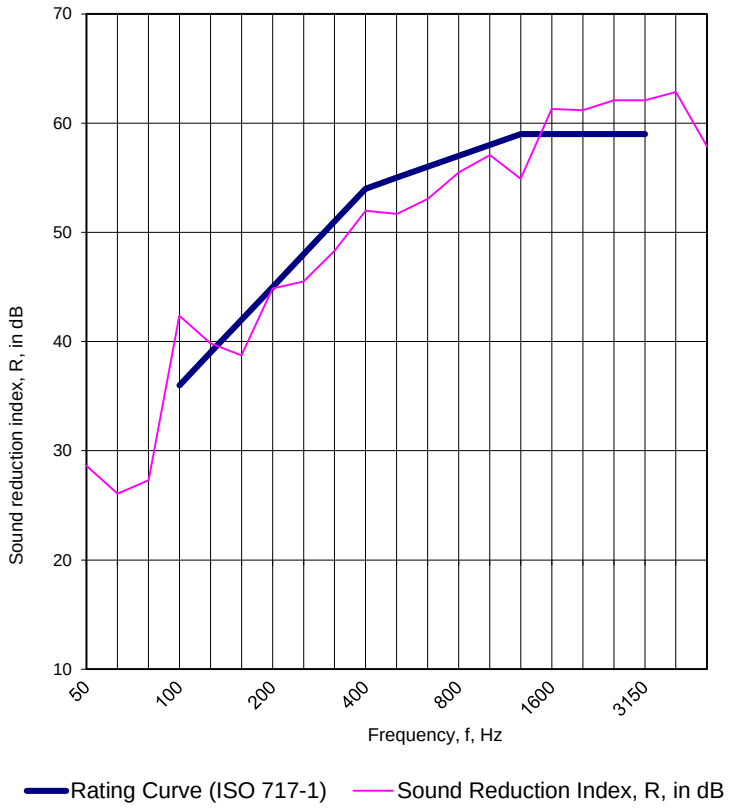
Ref. No.: WYC385361/AR1/P020
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)

f, Hz		*R* ,dB
50+		28.6
63+		26.1
80+		27.3
100		42.4
125		39.8
160		38.7
200		44.9
250		45.5
315		48.3
400		52.0
500		51.7
630		53.1
800		55.5
1000		57.1
1250		54.9
1600		61.3
2000		61.2
2500		62.1
3150		62.1
4000		62.9
5000		57.9
AAD		-23.4

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	55 dB
$D_{n,e,w}+C$ =	55 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-11 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-11 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: 50mm thick Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

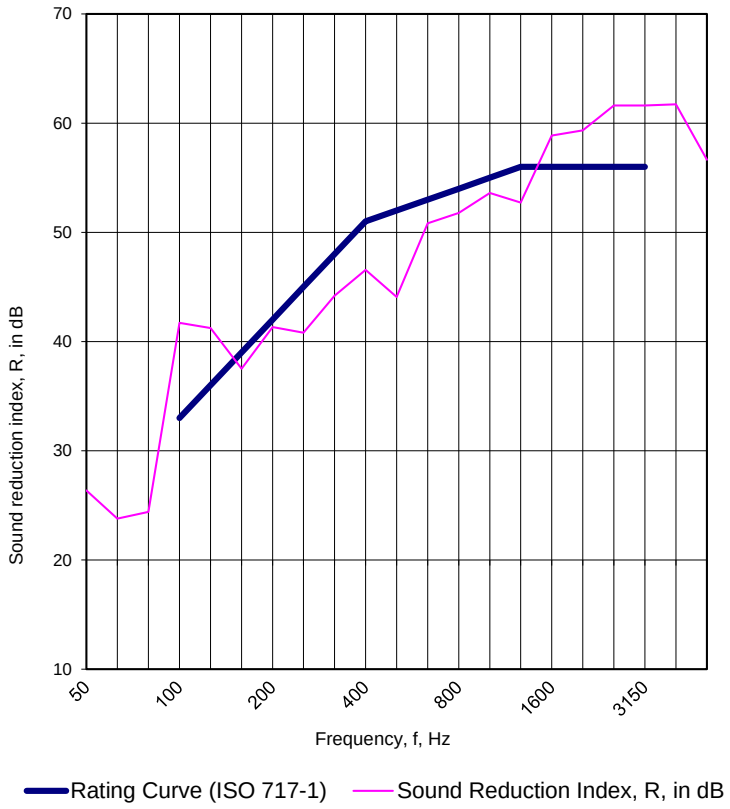
Ref. No.: WYC385361/AR1/P022
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)

f, Hz		*R* ,dB
50+		26.4
63+		23.8
80+		24.4
100		41.7
125		41.2
160		37.5
200		41.3
250		40.8
315		44.2
400		46.6
500		44.1
630		50.8
800		51.8
1000		53.6
1250		52.7
1600		58.9
2000		59.3
2500		61.6
3150		61.6
4000		61.7
5000		56.6
AAD		-31.6

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	52 dB				
$D_{n,e,w}+C$ =	51 dB	$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-11 dB
$D_{n,e,w}+C_{tr}$ =	48 dB	$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-11 dB
		$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: 100mm thick Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

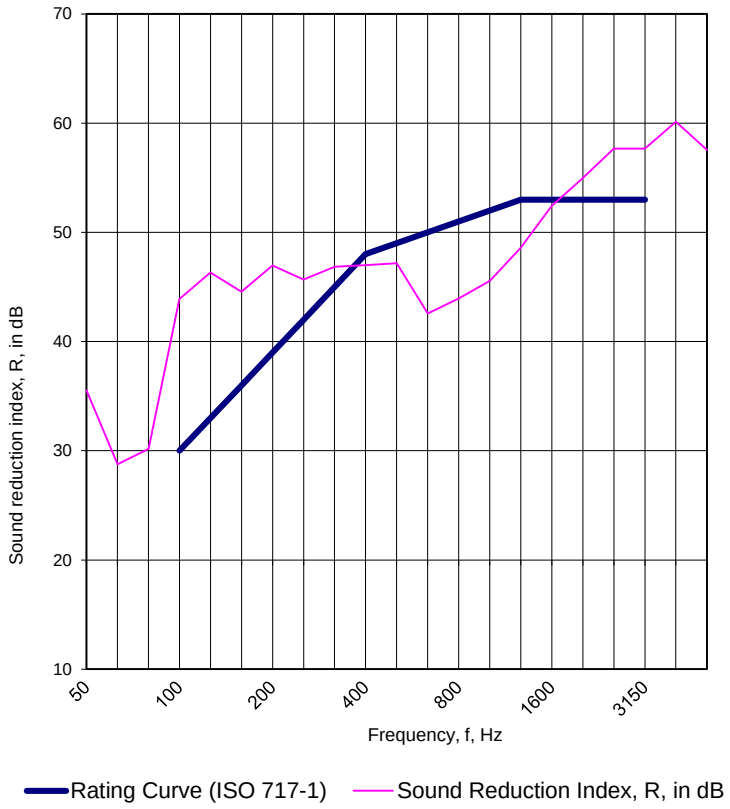
Ref. No.: WYC385361/AR1/P023
Date of Test: 12/07/2017

Source Room Volume: 88.80 m^3
Receive Room Volume: 67.50 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 100mm thick Sealfire W1000 Compound

f, Hz		*R* ,dB
50+		35.5
63+		28.8
80+		30.2
100		43.9
125		46.3
160		44.6
200		47.0
250		45.7
315		46.8
400		47.0
500		47.2
630		42.6
800		43.9
1000		45.6
1250		48.6
1600		52.4
2000		55.0
2500		57.7
3150		57.7
4000		60.1
5000		57.6
AAD		-28.8

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	49 dB
$D_{n,e,w}+C$ =	49 dB
$D_{n,e,w}+C_{tr}$ =	47 dB

$C_{(50-3150)}$ =	-1	dB	$C_{tr\ (50-3150)}$ =	-5	dB
$C_{(50-5000)}$ =	0	dB	$C_{tr\ (50-5000)}$ =	-5	dB
$C_{(100-5000)}$ =	0	dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: 90mm thick Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

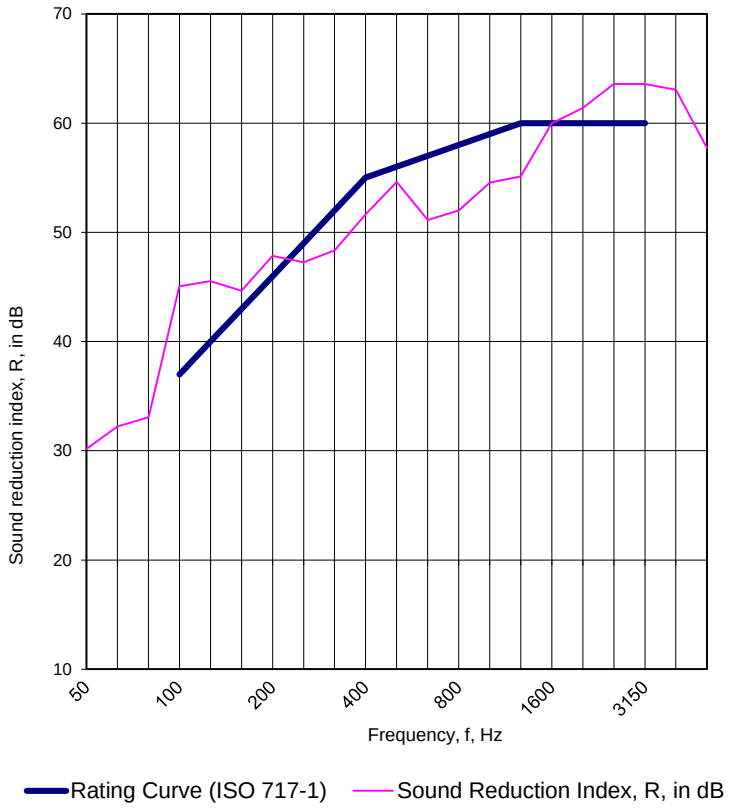
Ref. No.: WYC385361/AR1/P024
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)

f, Hz		*R* ,dB
50+		30.2
63+		32.2
80+		33.1
100		45.1
125		45.5
160		44.6
200		47.8
250		47.3
315		48.3
400		51.7
500		54.6
630		51.1
800		52.0
1000		54.6
1250		55.1
1600		60.0
2000		61.4
2500		63.6
3150		63.6
4000		63.1
5000		57.7
AAD		-31.3

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	56 dB
$D_{n,e,w}+C$ =	55 dB
$D_{n,e,w}+C_{tr}$ =	52 dB

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-8 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-8 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-4 dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: 90mm thick Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

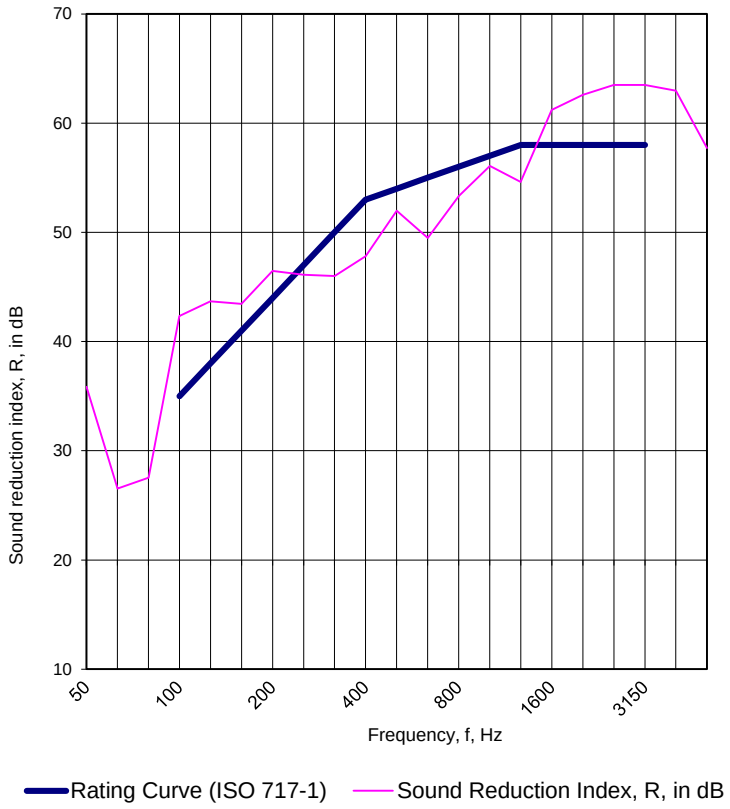
Ref. No.: WYC385361/AR1/P025
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)

f, Hz		*R* ,dB
50+		35.9
63+		26.5
80+		27.5
100		42.3
125		43.7
160		43.5
200		46.5
250		46.1
315		46.0
400		47.8
500		52.0
630		49.5
800		53.3
1000		56.1
1250		54.6
1600		61.2
2000		62.6
2500		63.5
3150		63.5
4000		63.0
5000		57.7
AAD		-24.6

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	54 dB
$D_{n,e,w}+C$ =	54 dB
$D_{n,e,w}+C_{tr}$ =	51 dB

$C_{(50-3150)}$ =	-1 dB	$C_{tr\ (50-3150)}$ =	-9	dB
$C_{(50-5000)}$ =	0 dB	$C_{tr\ (50-5000)}$ =	-9	dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3	dB

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Laboratory measurement to BS EN ISO 10140-2 - Airborne Sound Insulation of

1762

Test Specimen Name: 150mm thick Sealfire W1000 Compound
Sponsor: Wurth Oy
Test Specimen Installed By: Exova

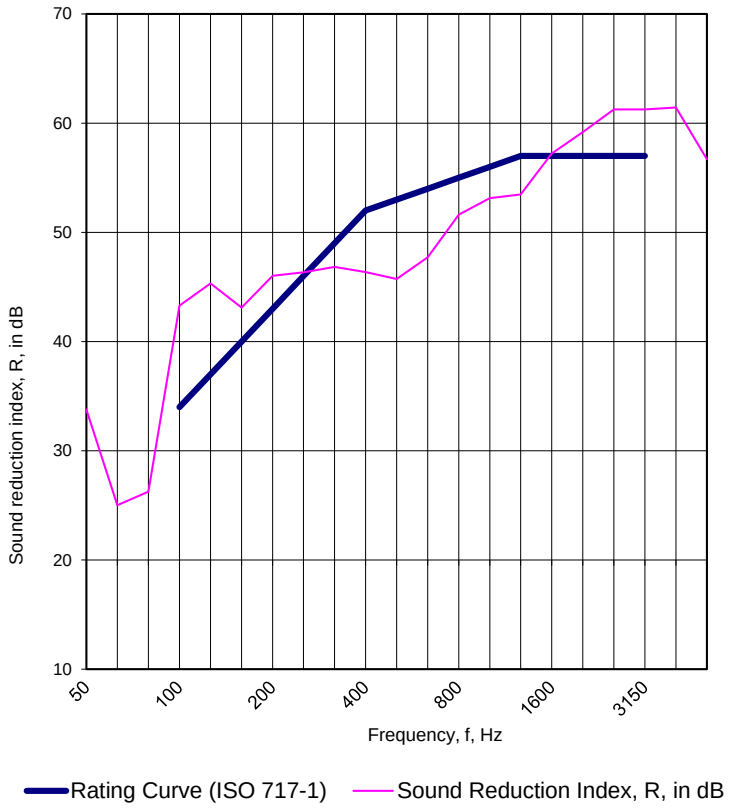
Ref. No.: WYC385361/AR1/P026
Date of Test: 12/07/2017

Source Room Volume: 82.40 m^3
Receive Room Volume: 69.60 m^3

Temperature in Test Rooms: 18.0 °C
Static Pressure: 99500.0 Pa
Humidity in Test Rooms: 62.0 %
Test Specimen Description: 150mm thick Sealfire W1000 Compound

f, Hz		*R* ,dB
50+		33.8
63+		25.0
80+		26.3
100		43.3
125		45.3
160		43.1
200		46.0
250		46.3
315		46.8
400		46.4
500		45.7
630		47.7
800		51.6
1000		53.1
1250		53.5
1600		57.2
2000		59.2
2500		61.3
3150		61.3
4000		61.4
5000		56.7
AAD		-31.1

Frequency range for rating in accordance with ISO 717-1



$D_{n,e,w}$ =	53 dB
$D_{n,e,w}+C$ =	52 dB
$D_{n,e,w}+C_{tr}$ =	50 dB

$C_{(50-3150)}$ =	-2 dB	$C_{tr\ (50-3150)}$ =	-10 dB
$C_{(50-5000)}$ =	-1 dB	$C_{tr\ (50-5000)}$ =	-10 dB
$C_{(100-5000)}$ =	0 dB	$C_{tr\ (100-5000)}$ =	-3 dB

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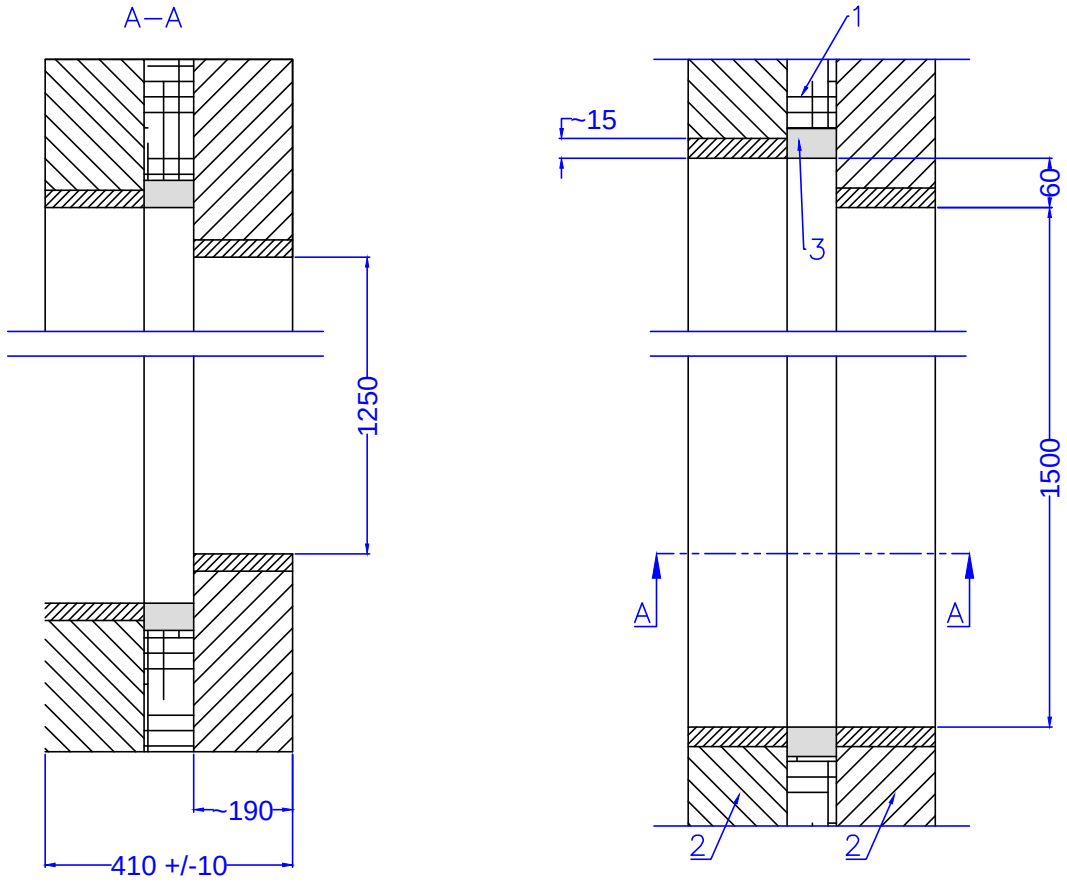
Appendix 5 – Exova Drawings (23 Pages)

Product Type	Sealants / Compounds

Figure Number	Drawing Description
1	Supporting Construction Detail as per BS ISO 10140-5 Clause 3.3.3
2	Test of Partition wall
3	Test of partition wall with aperture for sealants not filled in
4	Sealfire W150. 50mm wide x 25mm thick (no backing material)
5	Sealfire W150. 50mm wide x 25mm thick (no backing material). Plasterboard fixed to exposed cassette
6	Sealfire W100. 50mm wide x 25mm thick (no backing material)
7	Sealfire W200. 50mm wide x 25mm thick (no backing material)
8	Sealfire W200. 50mm wide x 25mm thick (with 70mm rockwool placed in void)
9	Sealfire W250. 50mm wide x 25mm thick (no backing material)
10	Sealfire W100. 30mm wide x 15mm thick sealant (both sides) with PE backing material
11	Sealfire W150. 20mm wide x 30mm thick sealant (both sides) with 40mm Stone Mineral Wool backing
12	Sealfire W200. 30mm wide x 10mm thick sealant (both sides) with PE backing material
13	Sealfire W200. 50mm wide x 5mm thick sealant (both sides) with 90mm Stone Mineral Wool backing
14	Sealfire W250. 30mm wide x 10mm thick sealant (both sides) with PE backing material
15	Sealfire W250. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing
16	Sealfire W100. 100mm wide x 10mm thick sealant (both sides) with 80mm Stone Mineral Wool backing
17	50mm thick Sealfire W1000 Compound
18	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)
19	50mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)
20	100mm thick Sealfire W1000 Compound
21	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on receive room side)
22	90mm thick Sealfire W1000 Compound with 50mm Stone Wool Mineral (on source room side)
23	150mm thick Sealfire W1000 Compound

Appendix 5 Figure 1	Supporting Construction Detail as per BS ISO 10140-5 Clause 3.3.3

Construction of the specific small-sized test opening



Key
1 - Mineral wool 2 - Wall 3 - Resilient material (acoustically reflective)

Exova

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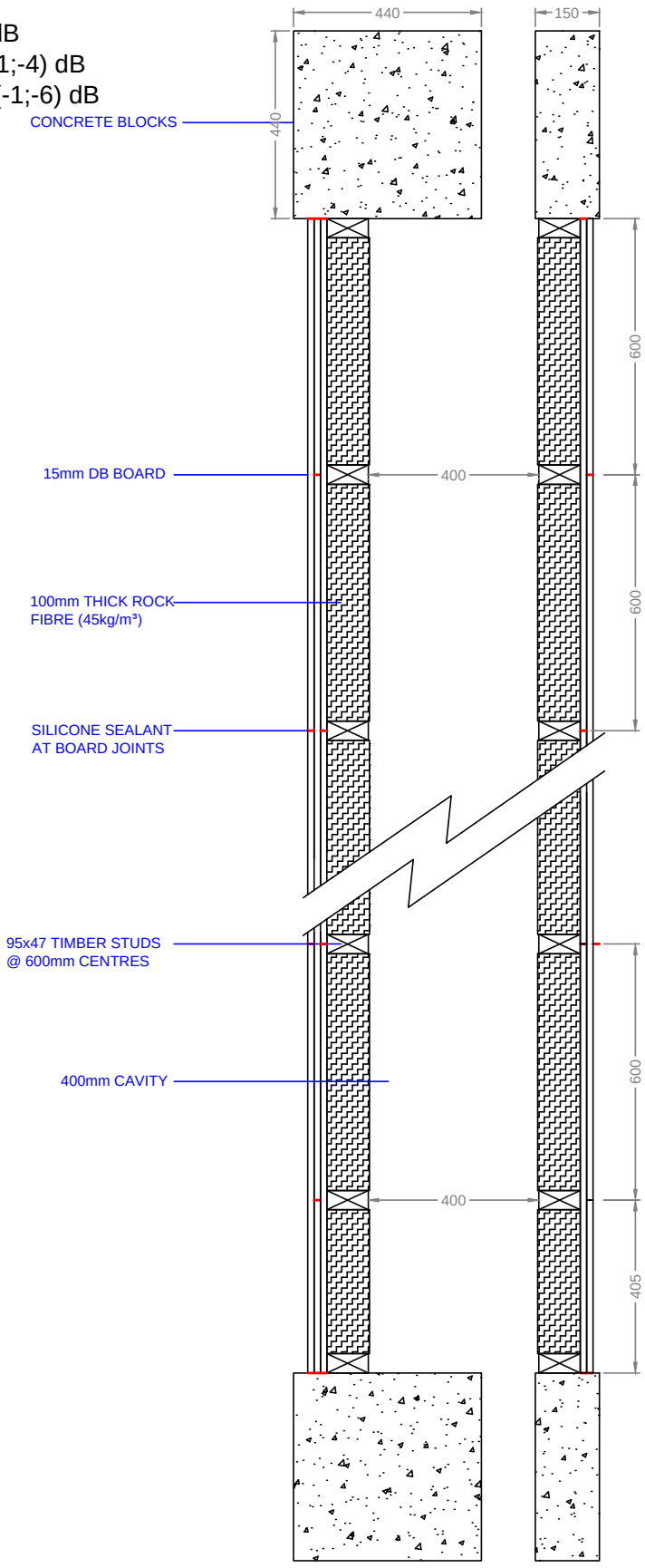
Schematic drawing showing horizontal cross section of test wall

Date Drawn	Drawn By	Scale
17/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

Project No.
WYC 385361/AR1

Appendix 5 Figure 2 | Supporting Construction Detail

P003
Dnew - 61 (-1;-6) dB
Rw (1.9m2) - 53 (-1;-4) dB
Rw (14.2m2) - 62 (-1;-6) dB



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Chiltern House, Stocking Lane, Hughenden Valley
High Wycombe, Buckinghamshire, HP14 4ND, UK.
Tel: +44 (0)1494 569800 Fax: +44 (0)1494 564895

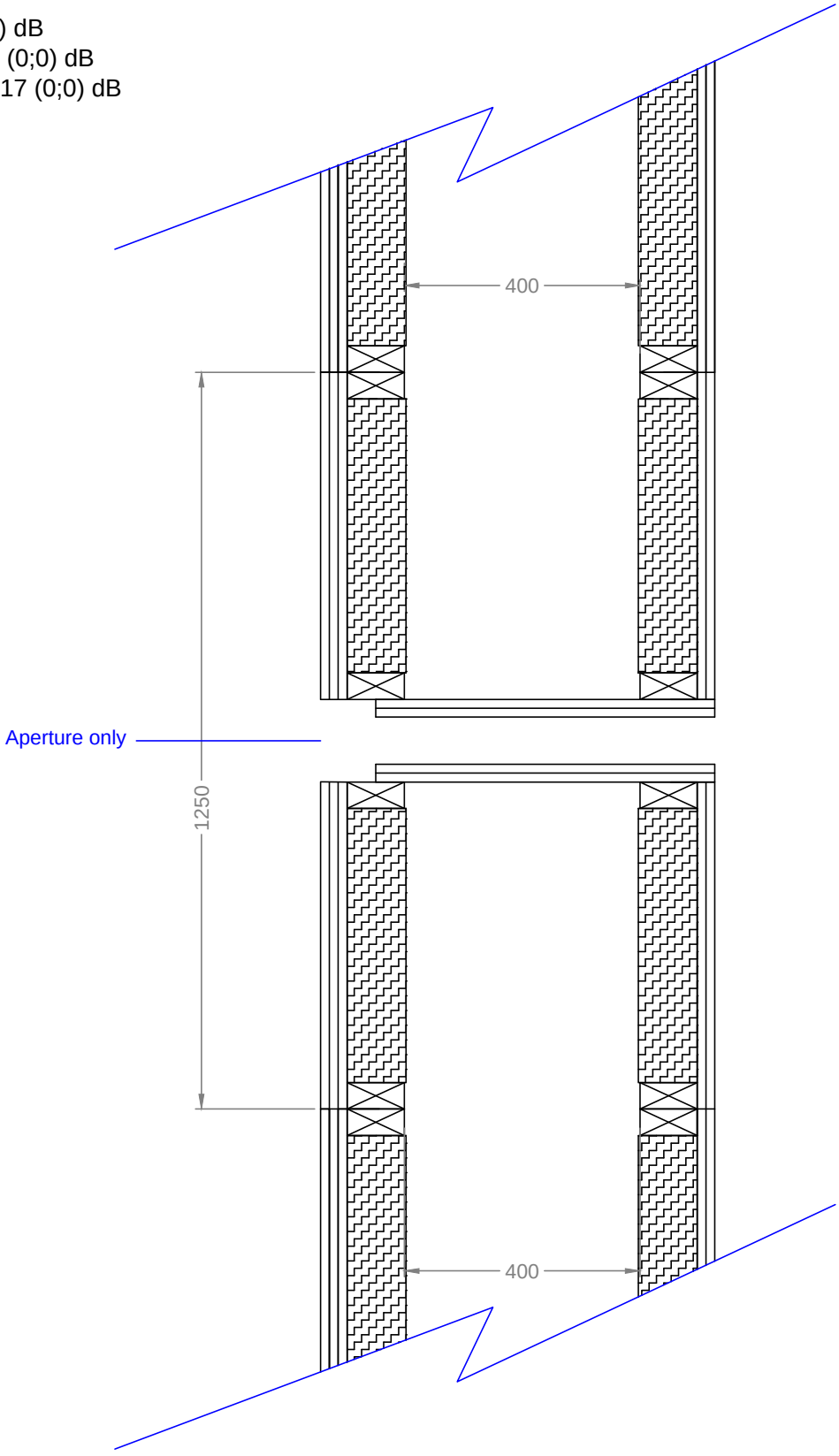
Schematic drawing showing horizontal cross section of test wall

Date Drawn	Drawn By	Scale
21/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

Project No.
WYC 385361/AR1

Appendix 5 Figure 3	Supporting Construction Detail

P004
Dnew - 15 (1;0) dB
Rw (1.9m2) - 8 (0;0) dB
Rw (14.2m2) - 17 (0;0) dB



Schematic drawing showing horizontal cross section of test wall

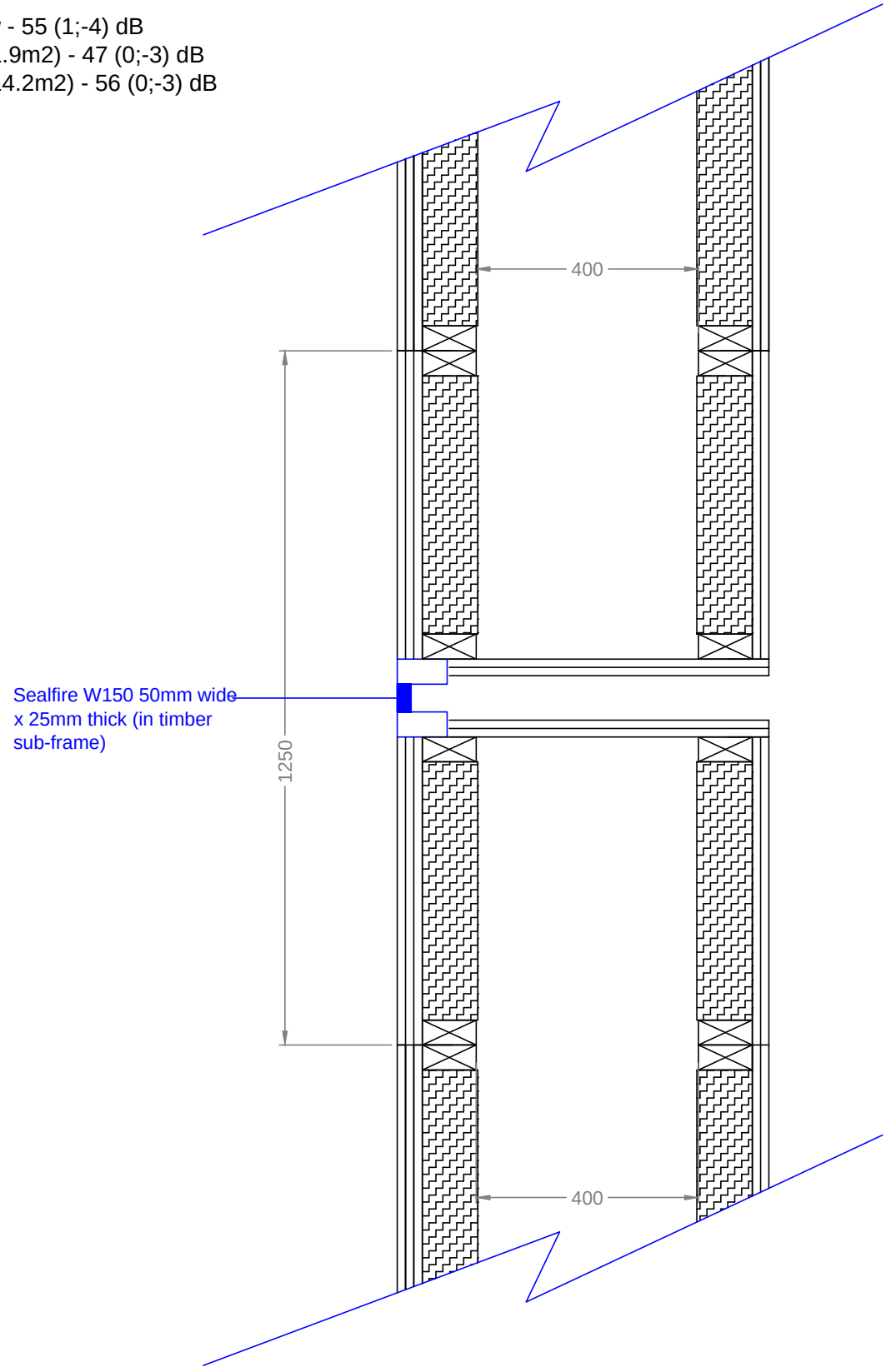
Exova
Chiltern House, Stocking Lane, Hughenden Valley
High Wycombe, Buckinghamshire, HP14 4ND, UK.
Tel: +44 (0)1494 569800 Fax: +44 (0)1494 564895

Date Drawn	Drawn By	Scale
17/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

Project No.
WYC 385361/AR1

Appendix 5 Figure 4	Supporting Construction Detail

P005
Dnew - 55 (1;-4) dB
Rw (1.9m2) - 47 (0;-3) dB
Rw (14.2m2) - 56 (0;-3) dB



Schematic drawing showing horizontal cross section of test wall

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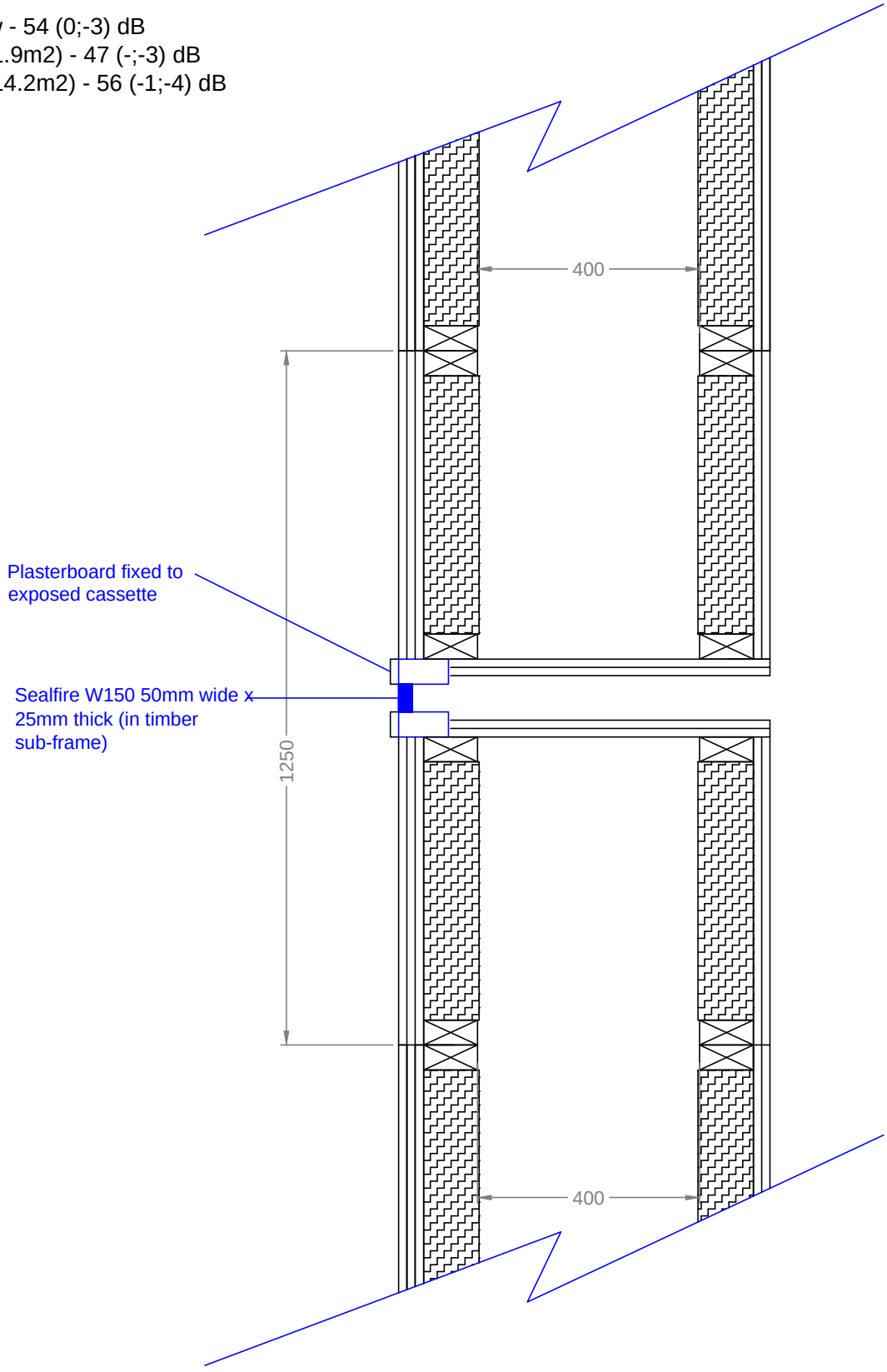
Appendix 5 Figure 5	Supporting Construction Detail

P006
Dnew - 54 (0;-3) dB
Rw (1.9m2) - 47 (-;-3) dB
Rw (14.2m2) - 56 (-1;-4) dB



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Schematic drawing showing horizontal cross section of test wall

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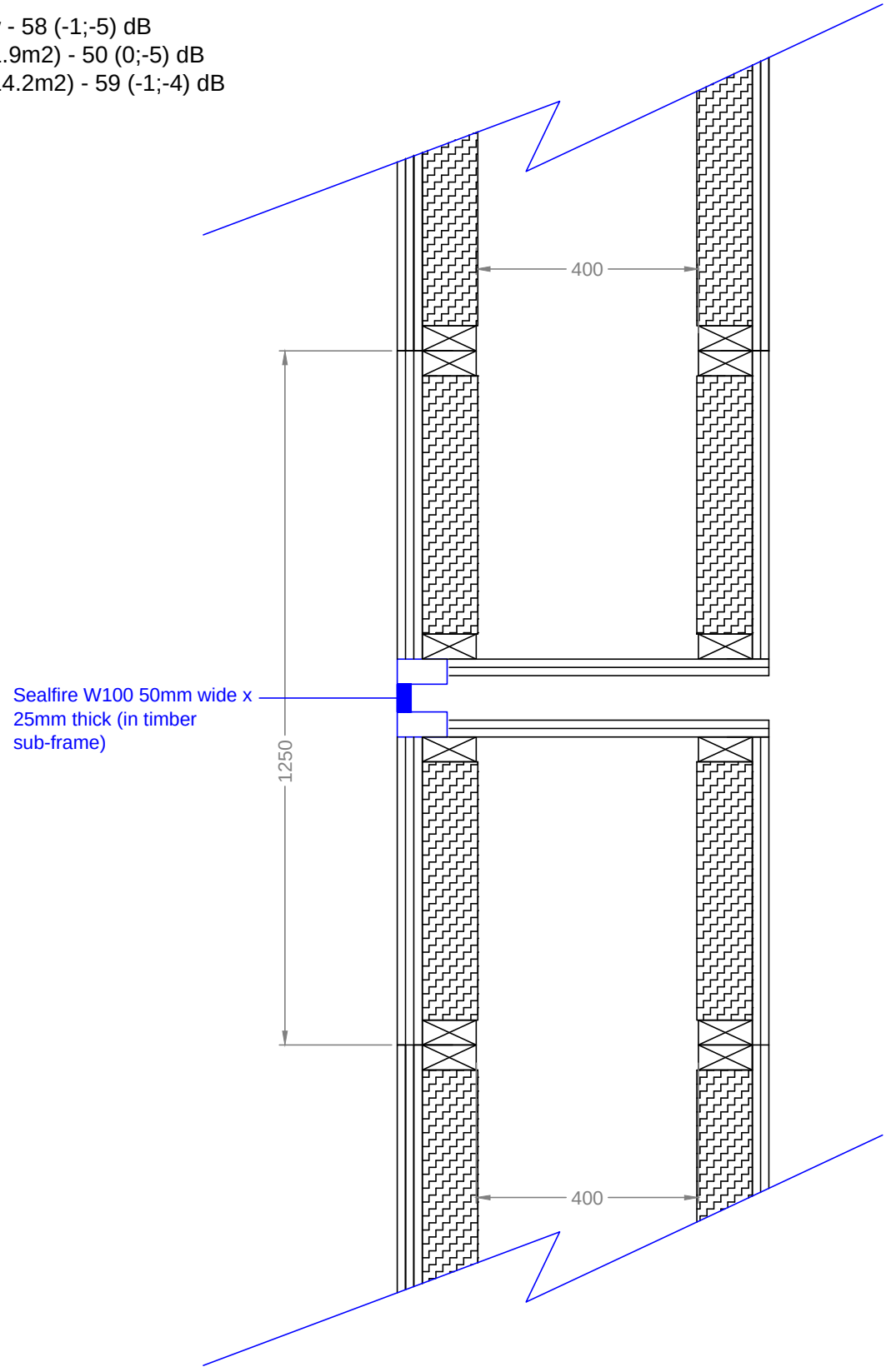
Appendix 5 Figure 6	Supporting Construction Detail

P007
Dnew - 58 (-1;-5) dB
Rw (1.9m2) - 50 (0;-5) dB
Rw (14.2m2) - 59 (-1;-4) dB



Schematic drawing showing horizontal cross section of test wall

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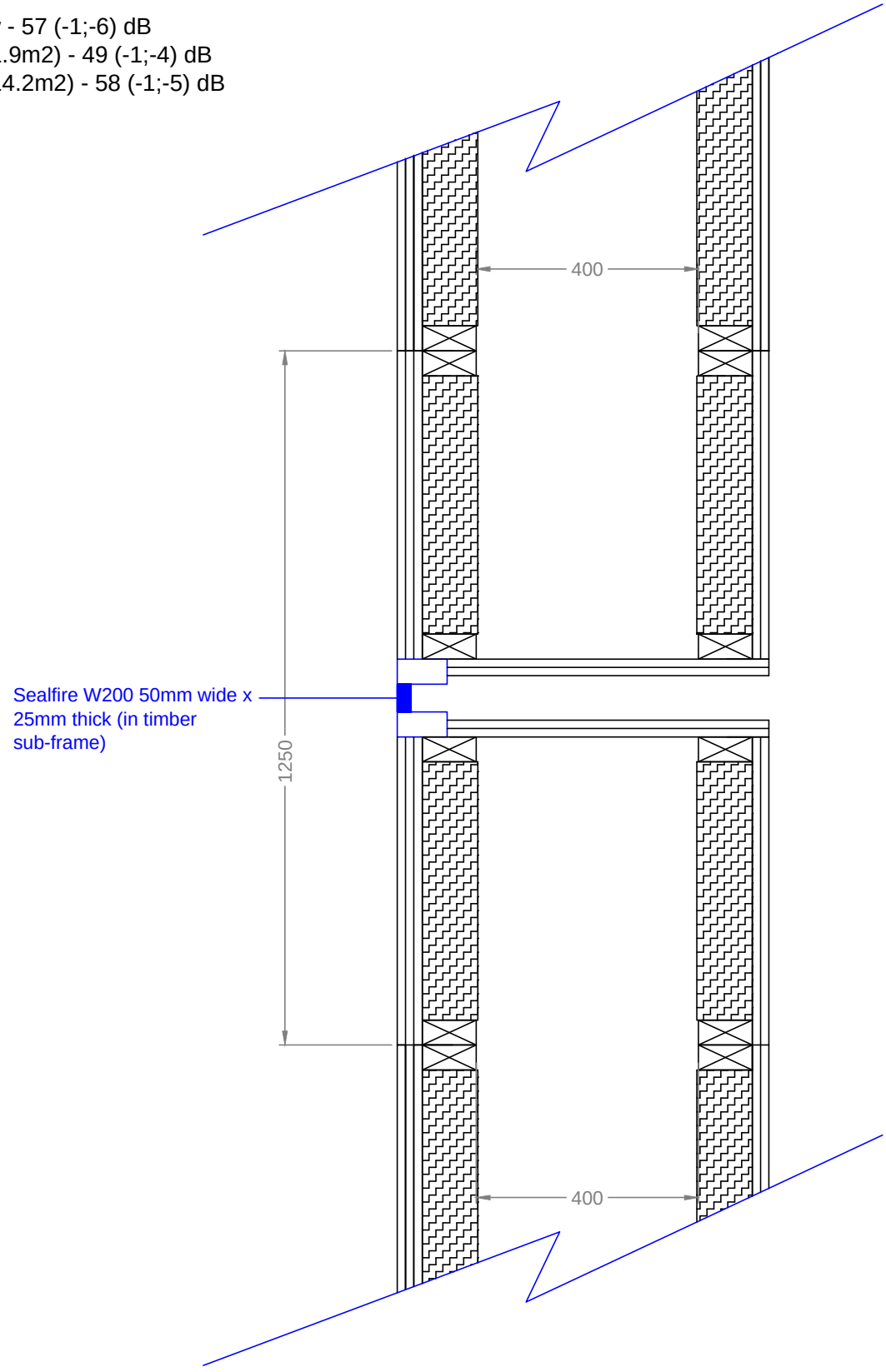
Project No. WYC 385361/AR1		

Appendix 5 Figure 7	Supporting Construction Detail

P008
Dnew - 57 (-1;-6) dB
Rw (1.9m2) - 49 (-1;-4) dB
Rw (14.2m2) - 58 (-1;-5) dB



Schematic drawing showing horizontal cross section of test wall

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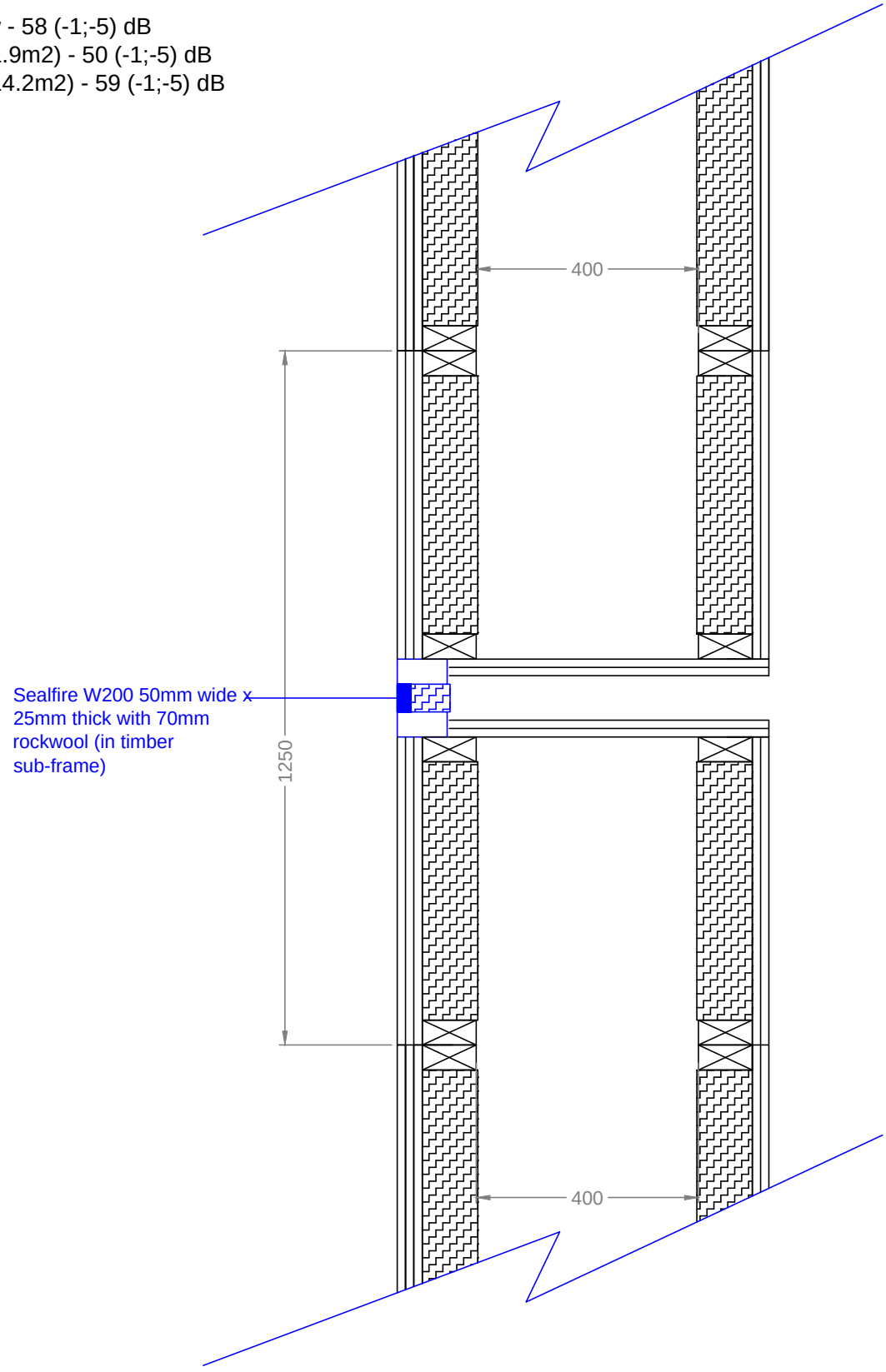
Appendix 5 Figure 8	Supporting Construction Detail

P009
Dnew - 58 (-1;-5) dB
Rw (1.9m2) - 50 (-1;-5) dB
Rw (14.2m2) - 59 (-1;-5) dB



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Schematic drawing showing horizontal cross section of test wall

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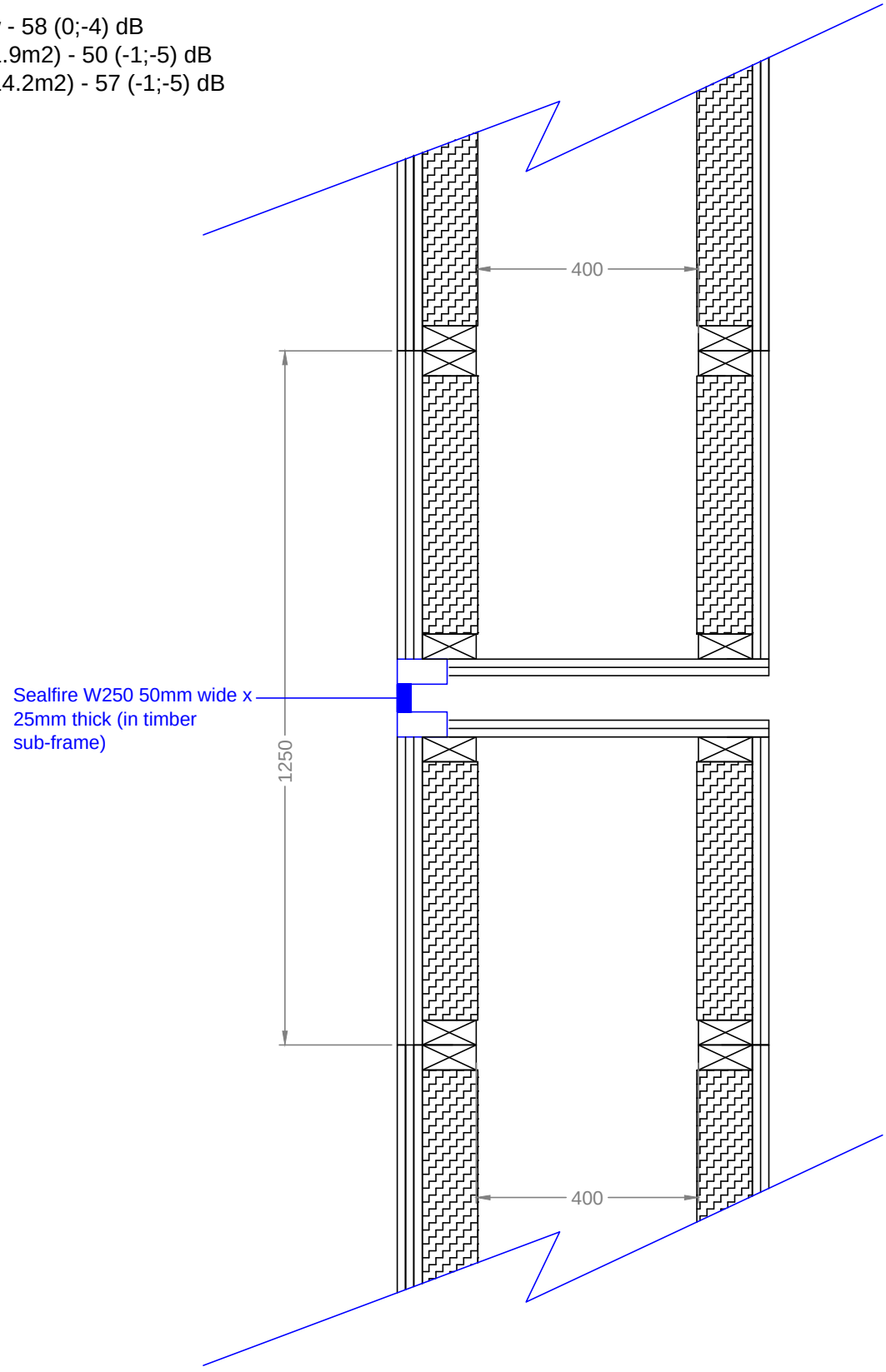
Appendix 5 Figure 9	Supporting Construction Detail

P010
Dnew - 58 (0;-4) dB
Rw (1.9m2) - 50 (-1;-5) dB
Rw (14.2m2) - 57 (-1;-5) dB



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Schematic drawing showing horizontal cross section of test wall

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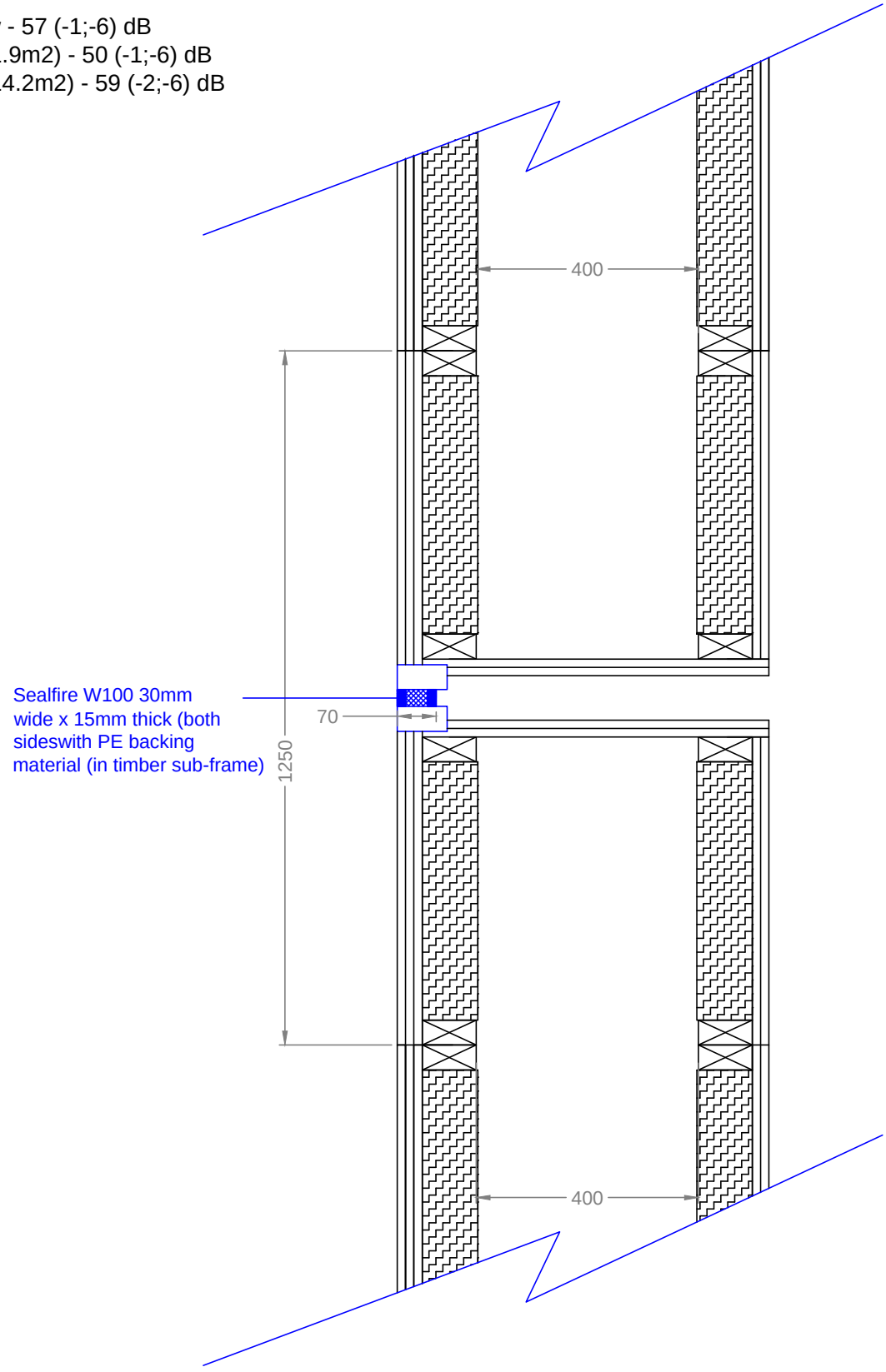
Appendix 5 Figure 10 | Supporting Construction Detail

P012
Dnew - 57 (-1;-6) dB
Rw (1.9m2) - 50 (-1;-6) dB
Rw (14.2m2) - 59 (-2;-6) dB



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Schematic drawing showing horizontal cross section of test wall

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Project No.
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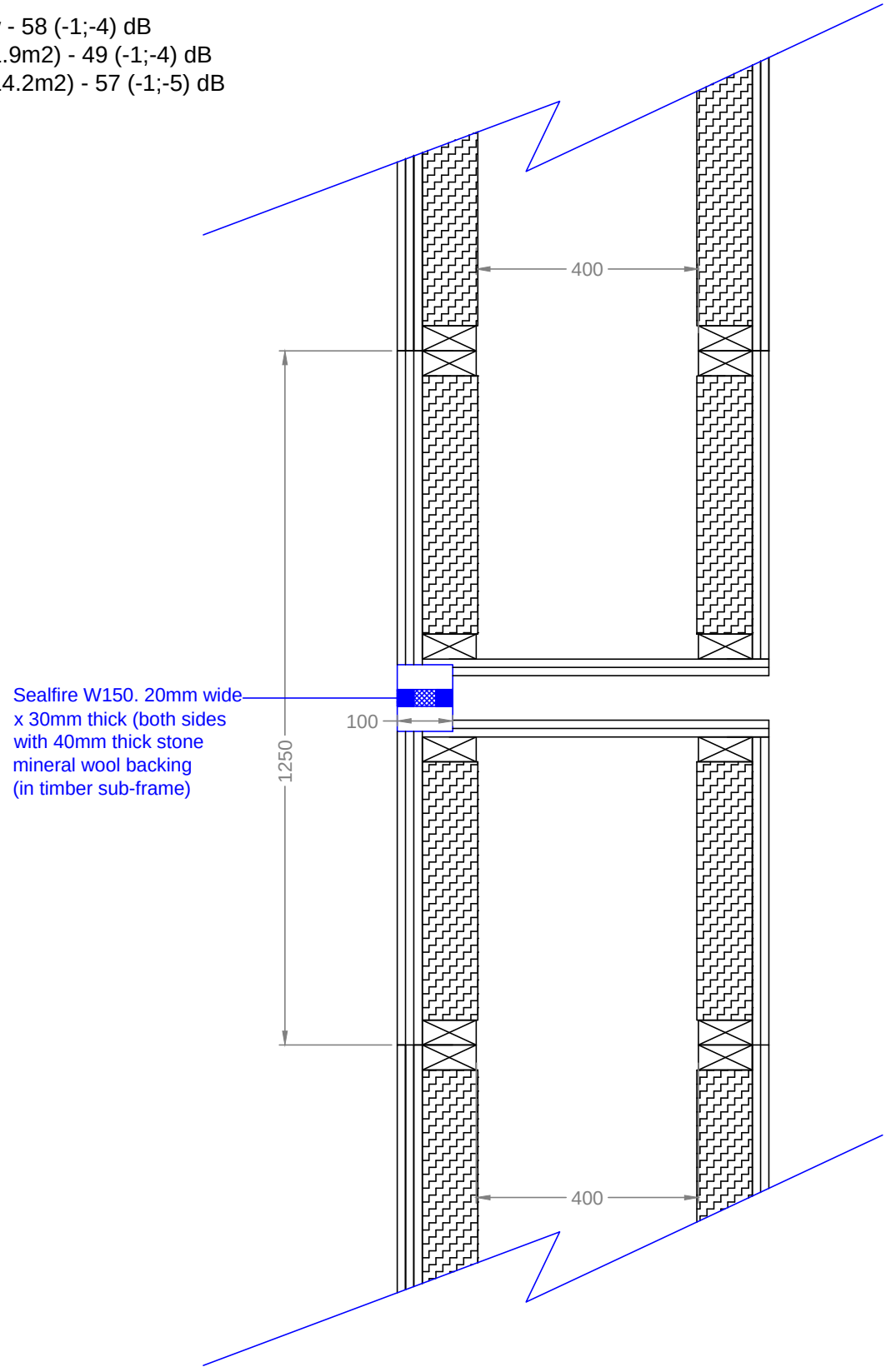
Appendix 5 Figure 11 | Supporting Construction Detail

P013
Dnew - 58 (-1;-4) dB
Rw (1.9m2) - 49 (-1;-4) dB
Rw (14.2m2) - 57 (-1;-5) dB



Schematic drawing showing horizontal cross section of test wall

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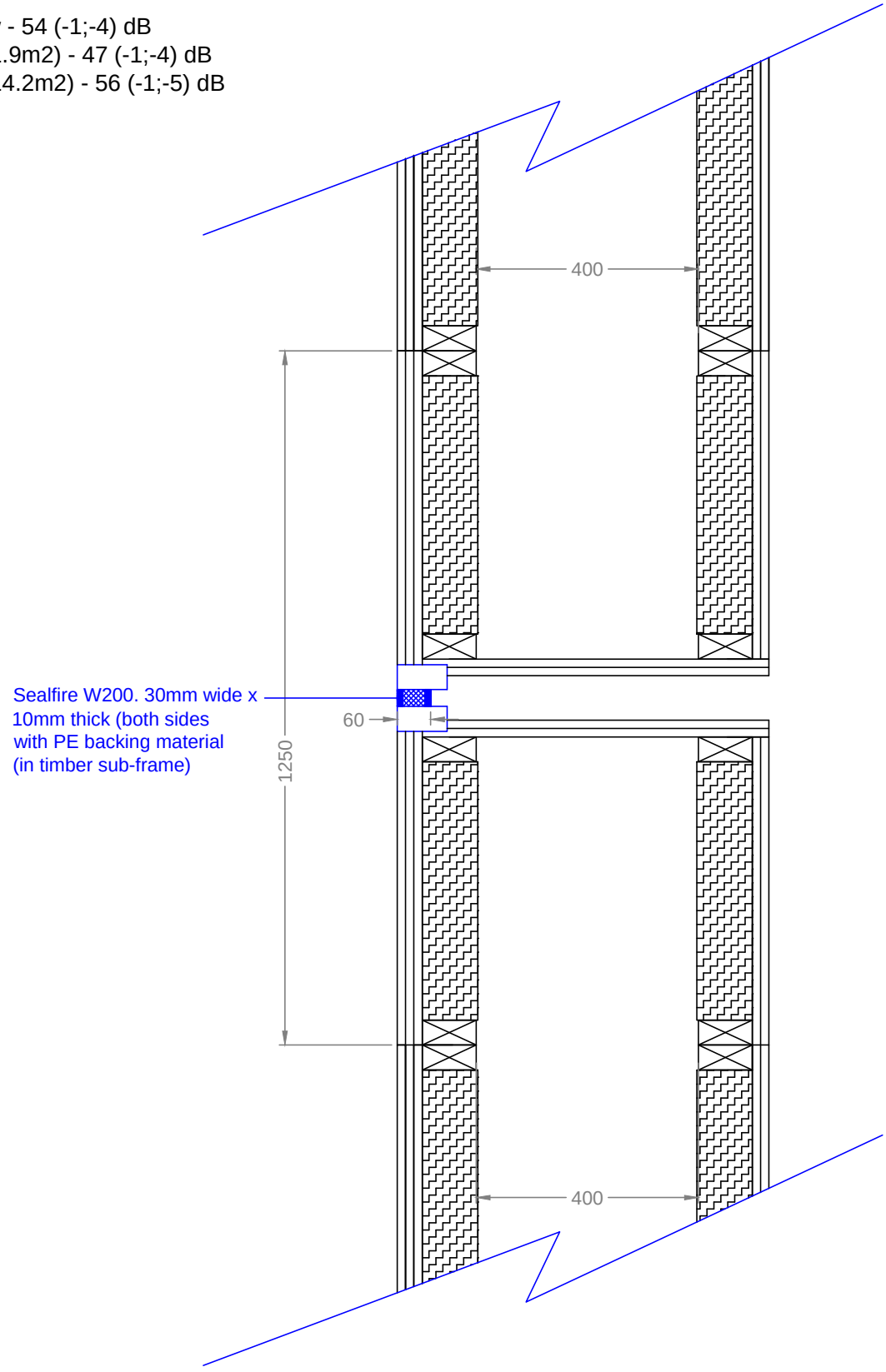
Appendix 5 Figure 12 | Supporting Construction Detail

P014
Dnew - 54 (-1;-4) dB
Rw (1.9m2) - 47 (-1;-4) dB
Rw (14.2m2) - 56 (-1;-5) dB



Schematic drawing showing horizontal cross section of test wall

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17/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

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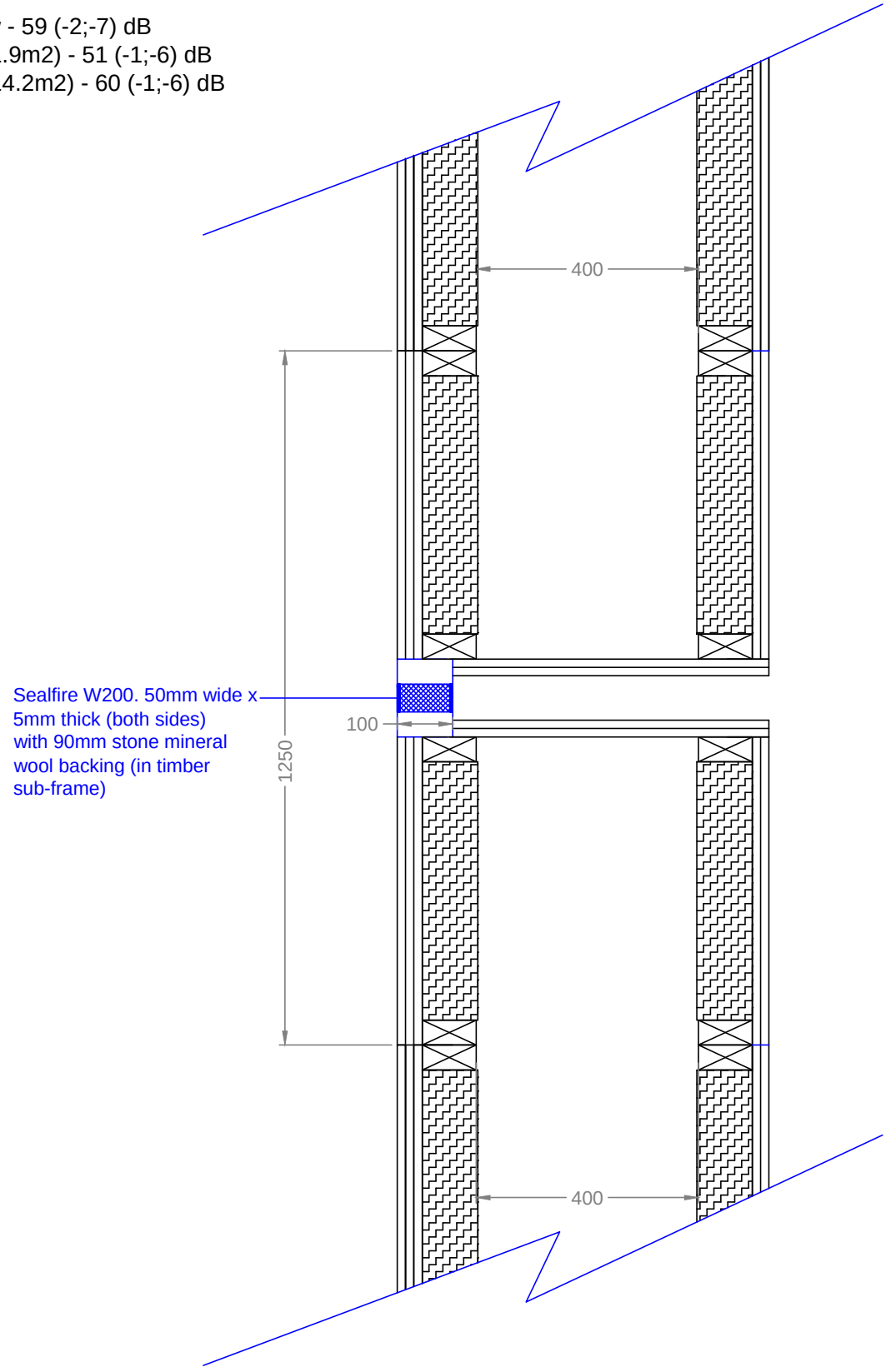
Appendix 5 Figure 13 | Supporting Construction Detail

P015
Dnew - 59 (-2;-7) dB
Rw (1.9m2) - 51 (-1;-6) dB
Rw (14.2m2) - 60 (-1;-6) dB



Schematic drawing showing horizontal cross section of test wall

Date Drawn	Drawn By	Scale
17/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

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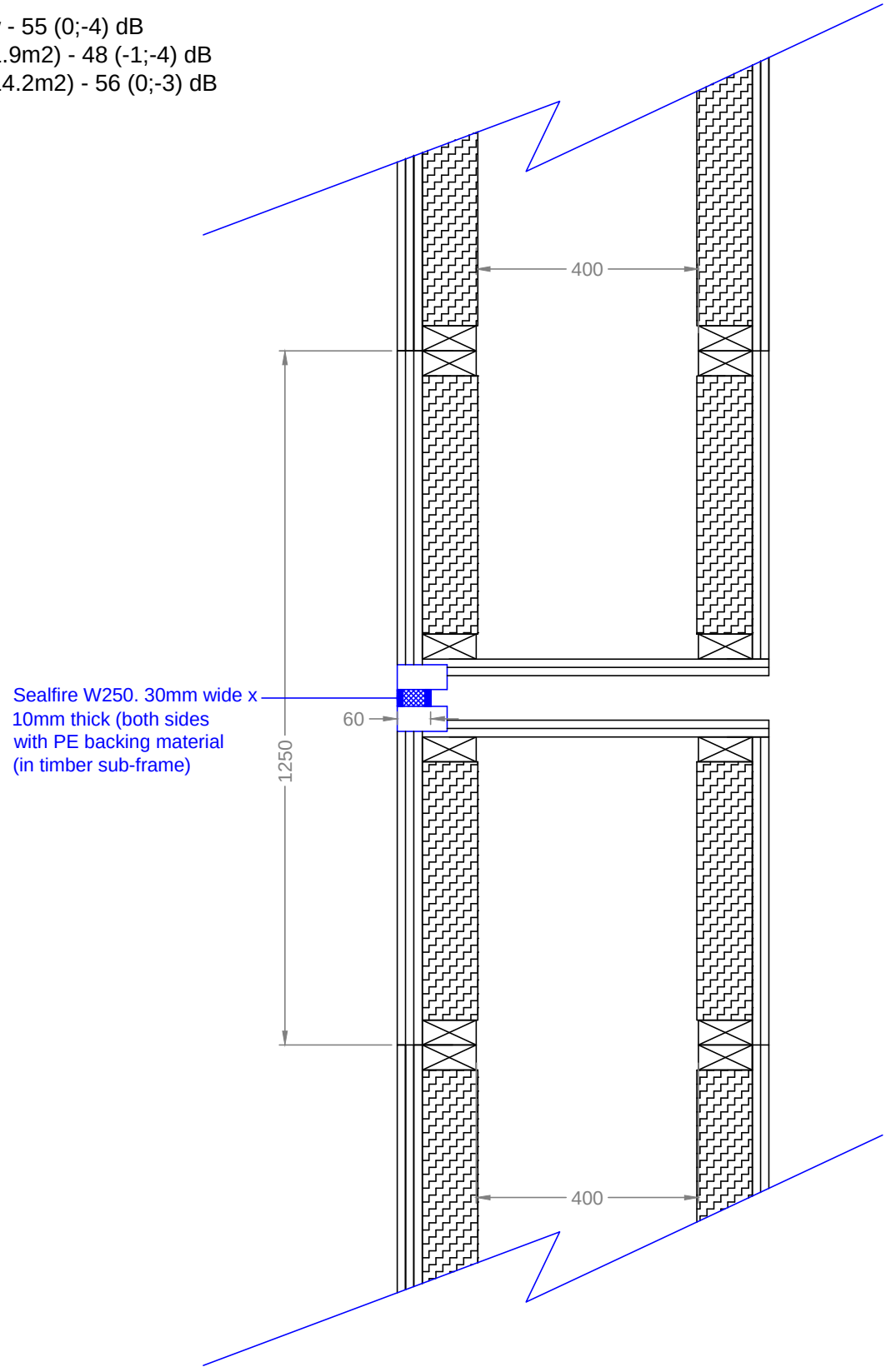
Appendix 5 Figure 14 | Supporting Construction Detail

P016
Dnew - 55 (0;-4) dB
Rw (1.9m2) - 48 (-1;-4) dB
Rw (14.2m2) - 56 (0;-3) dB



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Schematic drawing showing horizontal cross section of test wall

Date Drawn	Drawn By	Scale
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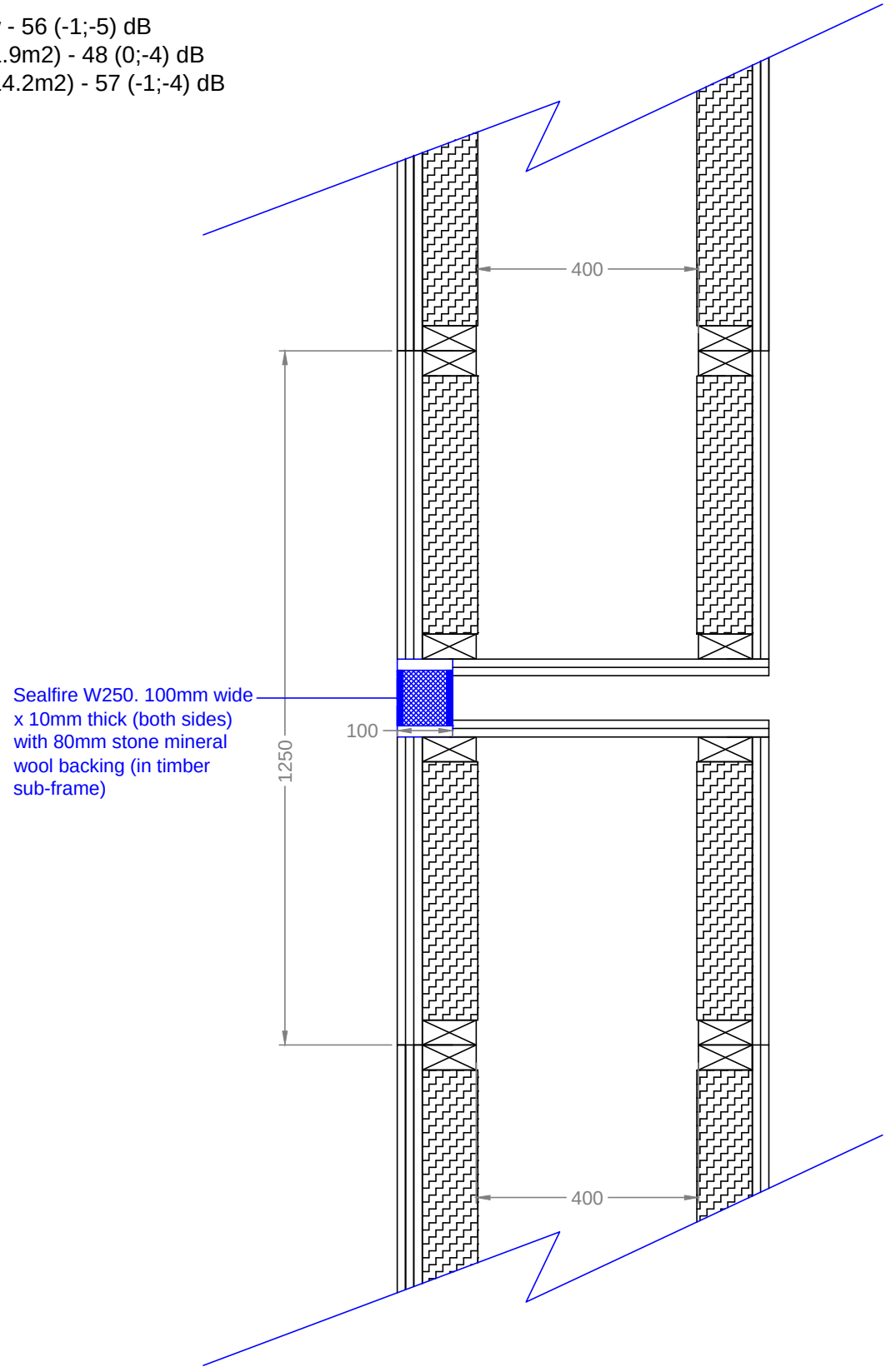
Appendix 5 Figure 15 | Supporting Construction Detail

P017
Dnew - 56 (-1;-5) dB
Rw (1.9m2) - 48 (0;-4) dB
Rw (14.2m2) - 57 (-1;-4) dB



Schematic drawing showing horizontal cross section of test wall

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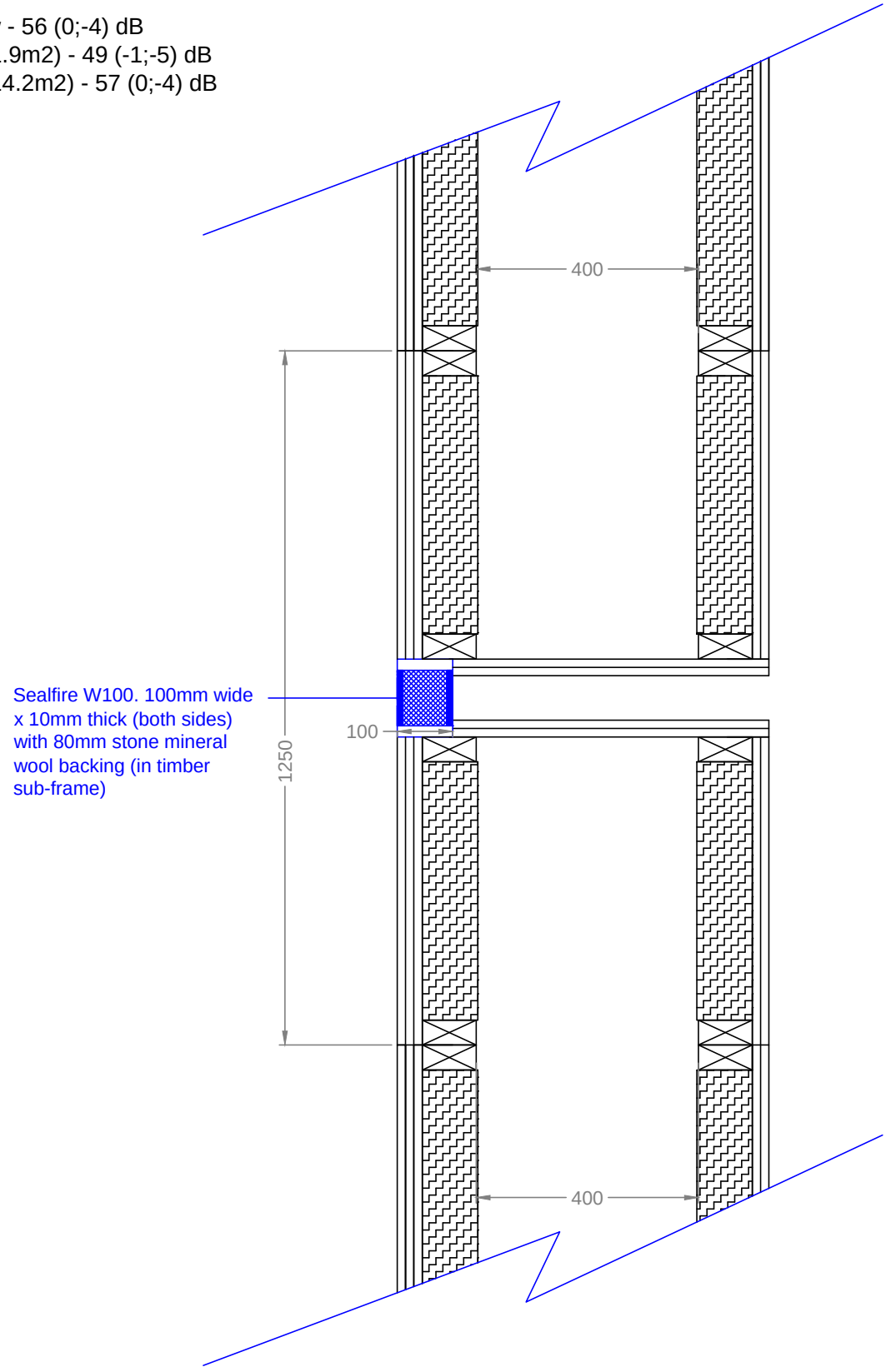
Appendix 5 Figure 16 | Supporting Construction Detail

P018
Dnew - 56 (0;-4) dB
Rw (1.9m2) - 49 (-1;-5) dB
Rw (14.2m2) - 57 (0;-4) dB



Schematic drawing showing horizontal cross section of test wall

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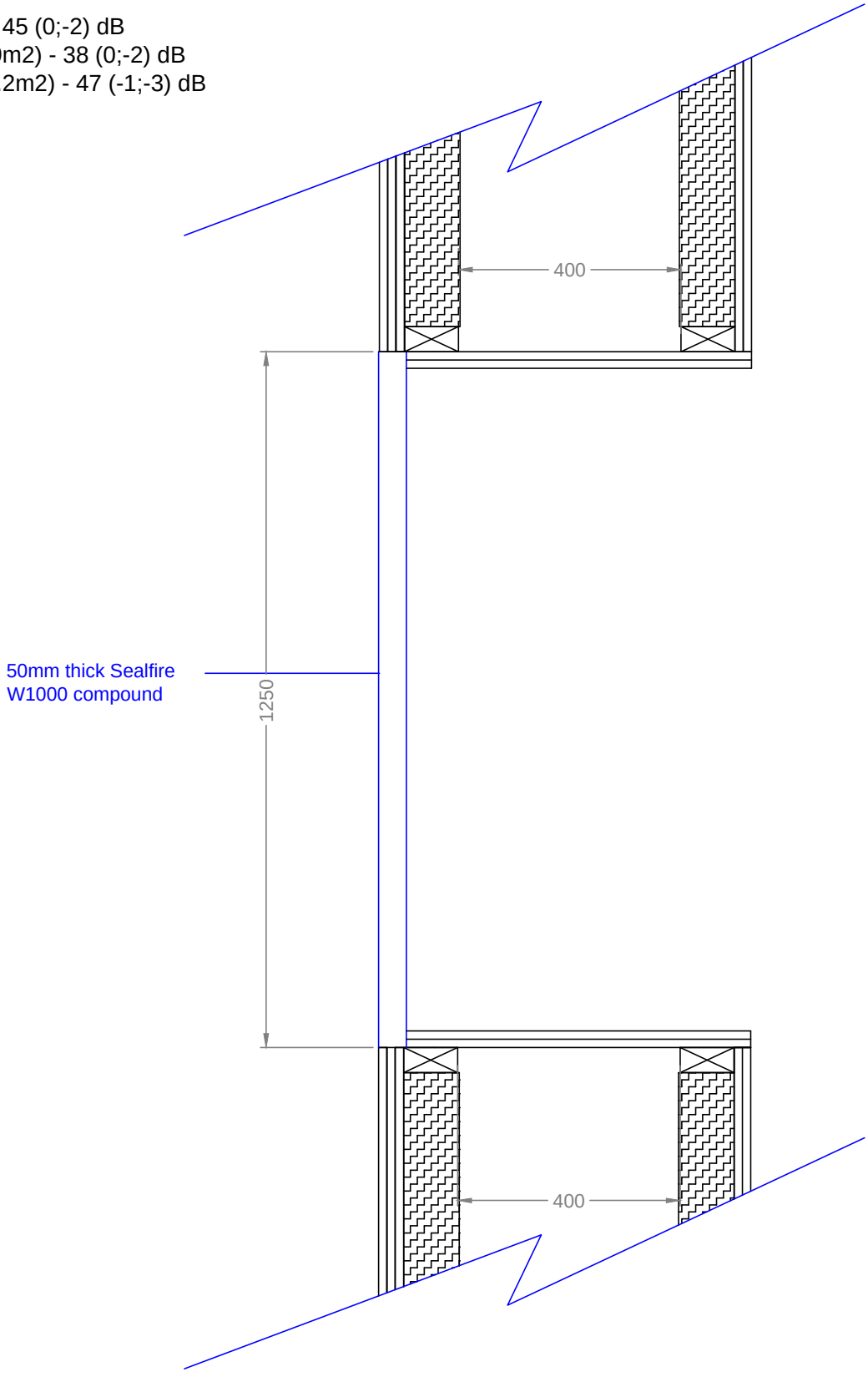
Appendix 5 Figure 17	Supporting Construction Detail

P019
Dnew - 45 (0;-2) dB
Rw (1.9m2) - 38 (0;-2) dB
Rw (14.2m2) - 47 (-1;-3) dB



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Schematic drawing showing horizontal cross section of test wall

Date Drawn	Drawn By	Scale
17/08/17	LGR	Not to Scale All dimensions in mm unless otherwise stated

Project No.
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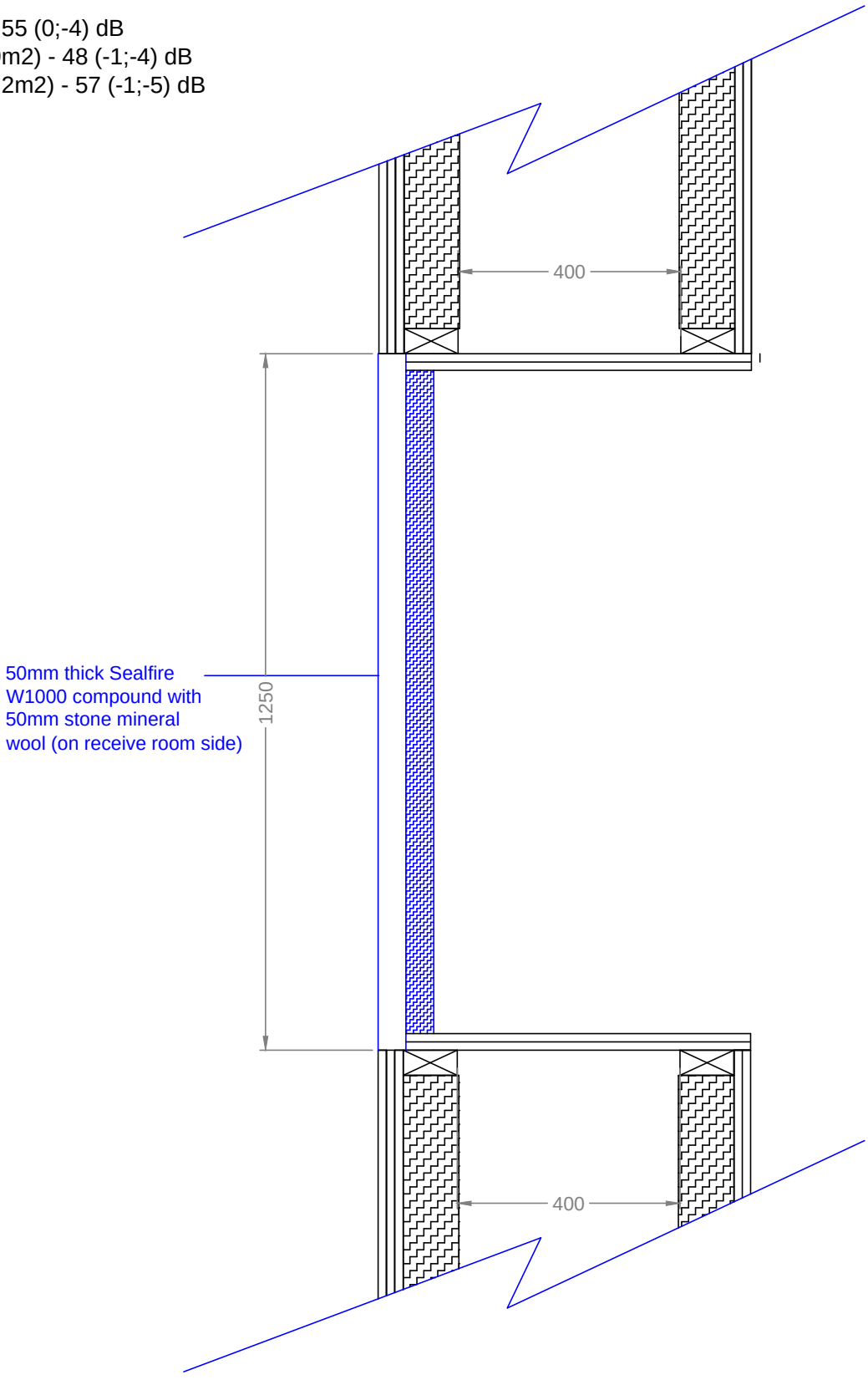
Appendix 5 Figure 18 | Supporting Construction Detail

P020
Dnew - 55 (0;-4) dB
Rw (1.9m2) - 48 (-1;-4) dB
Rw (14.2m2) - 57 (-1;-5) dB



Schematic drawing showing horizontal cross section of test wall

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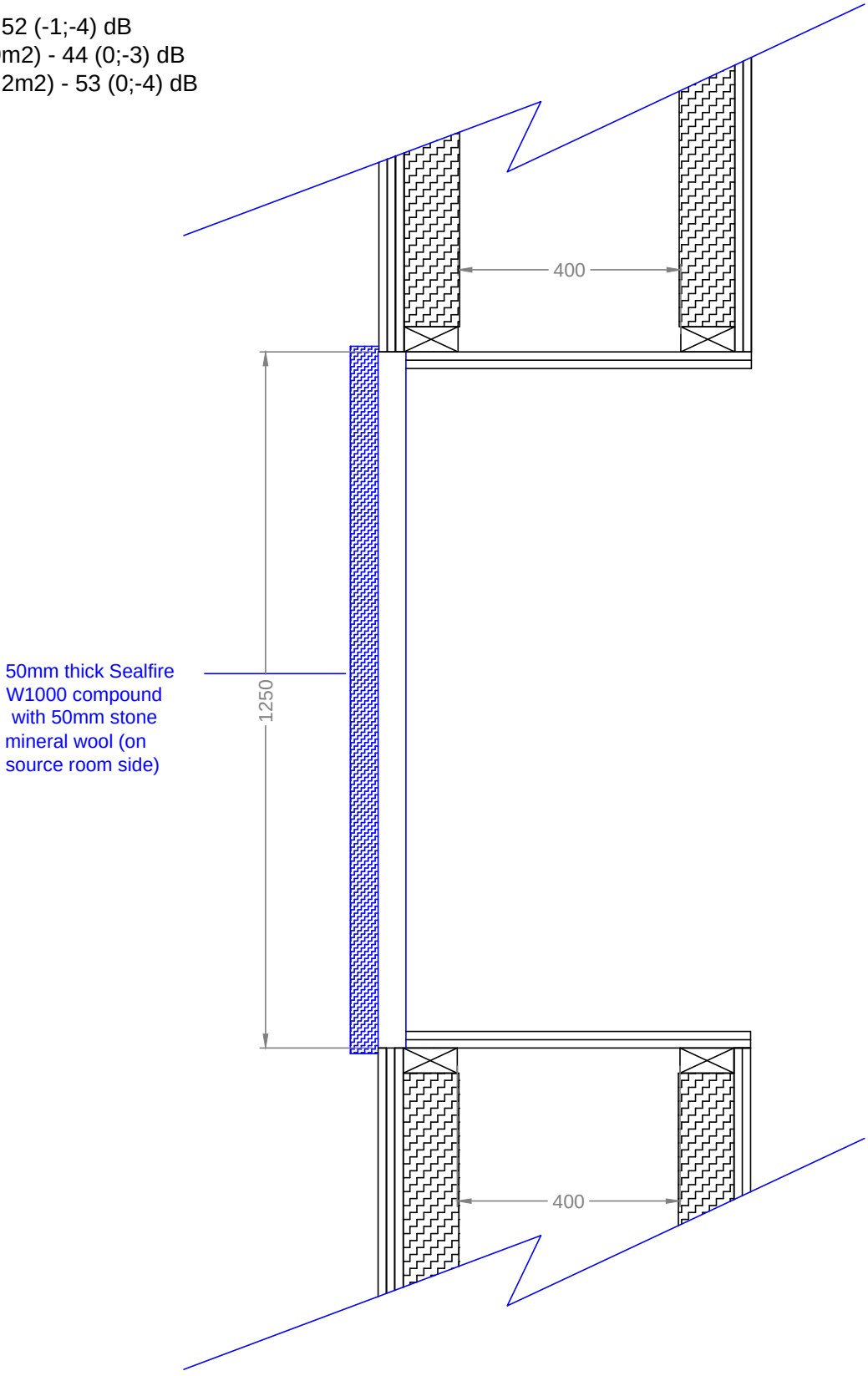
Appendix 5 Figure 19 | Supporting Construction Detail

P022
Dnew - 52 (-1;-4) dB
Rw (1.9m2) - 44 (0;-3) dB
Rw (14.2m2) - 53 (0;-4) dB



Schematic drawing showing horizontal cross section of test wall

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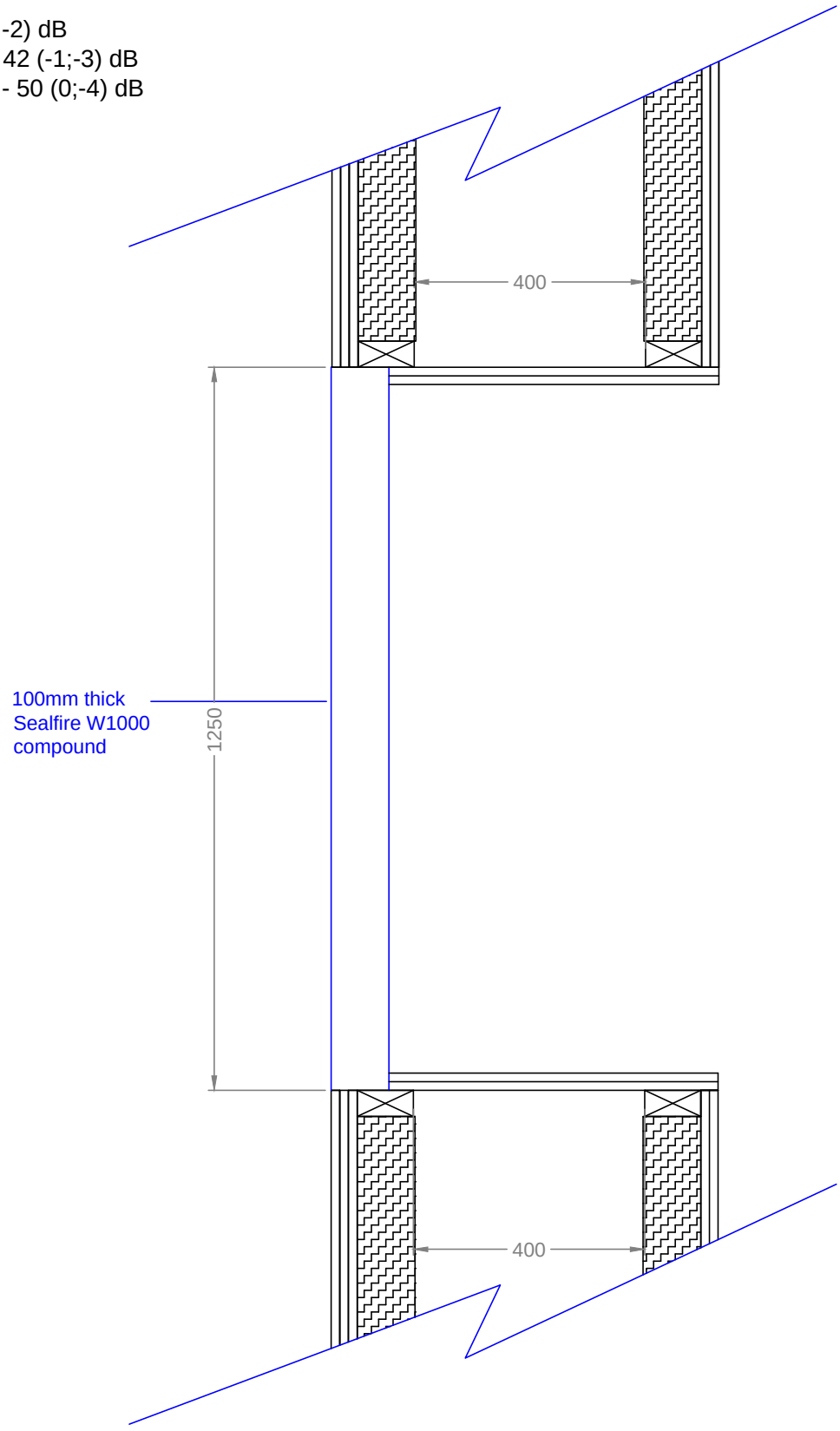
Appendix 5 Figure 20 | Supporting Construction Detail

P023
Dnew - 49 (0;-2) dB
Rw (1.9m2) - 42 (-1;-3) dB
Rw (14.2m2) - 50 (0;-4) dB



Schematic drawing showing horizontal cross section of test wall

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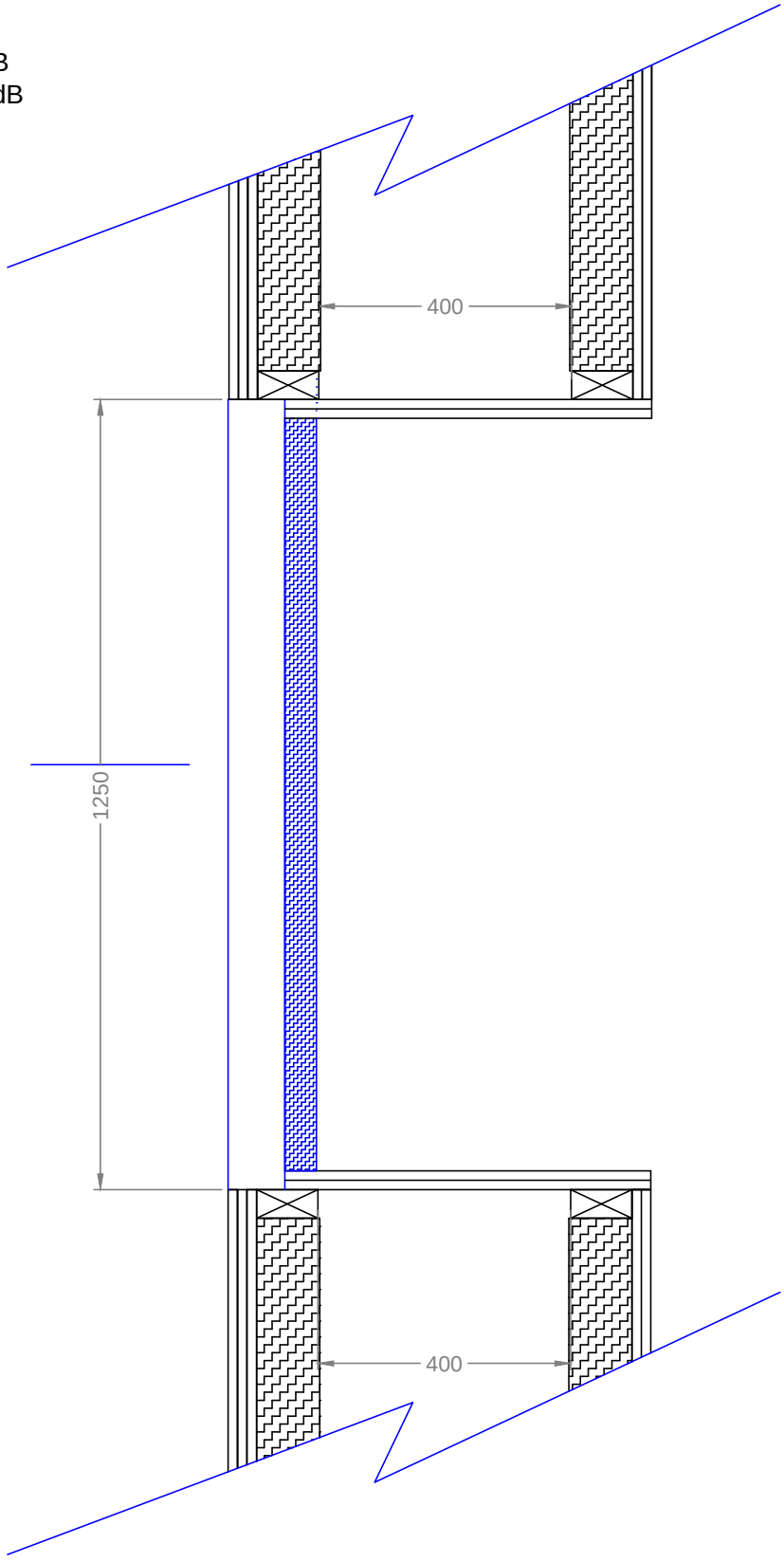
Appendix 5 Figure 21 | Supporting Construction Detail

P024
Dnew - 56 (-1;-4) dB
Rw (1.9m2) - 48 (0;-3) dB
Rw (14.2m2) - 57 (0;-3) dB



Schematic drawing showing horizontal cross section of test wall

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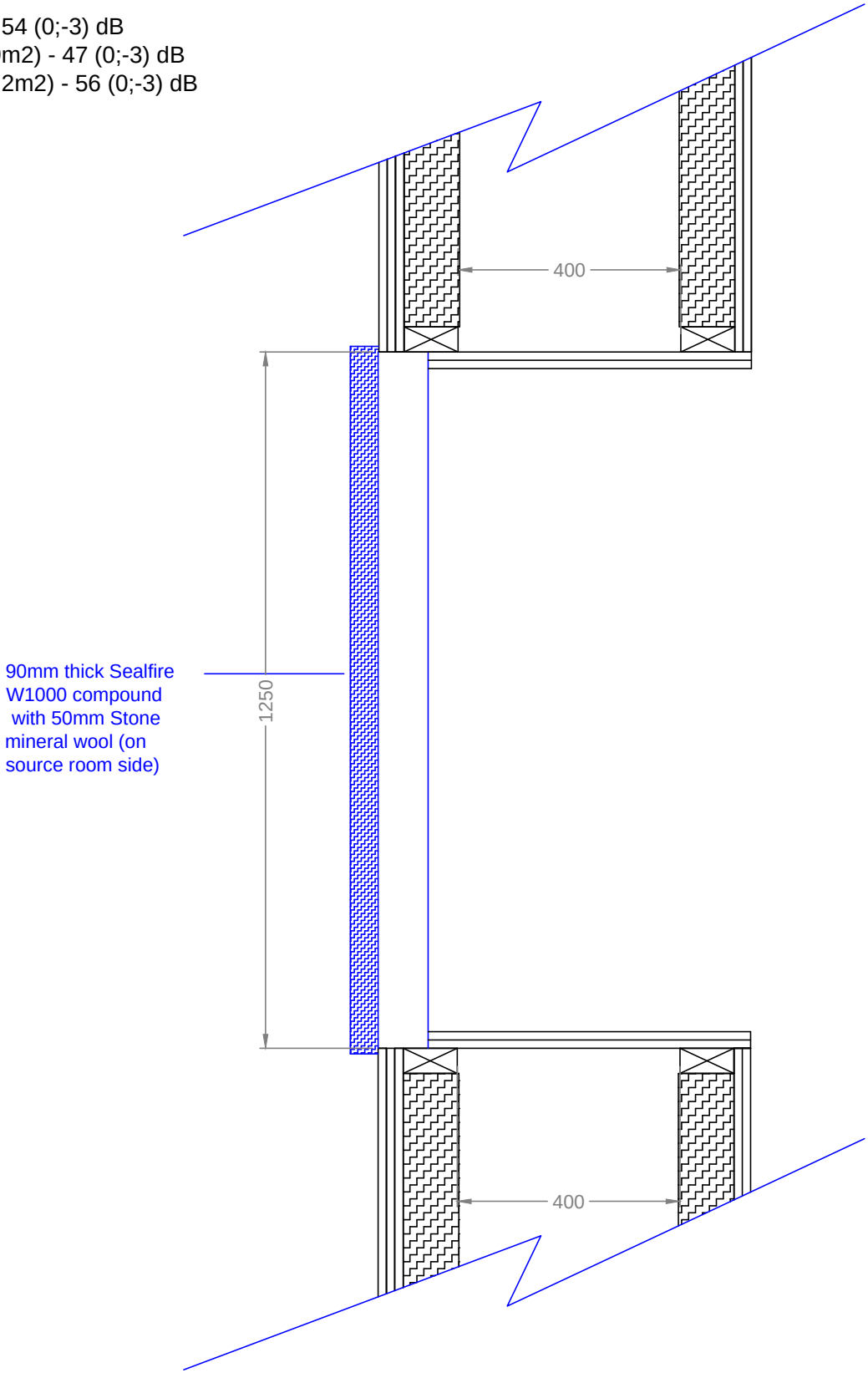
Appendix 5 Figure 22	Supporting Construction Detail

P025
Dnew - 54 (0;-3) dB
Rw (1.9m2) - 47 (0;-3) dB
Rw (14.2m2) - 56 (0;-3) dB



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Schematic drawing showing horizontal cross section of test wall

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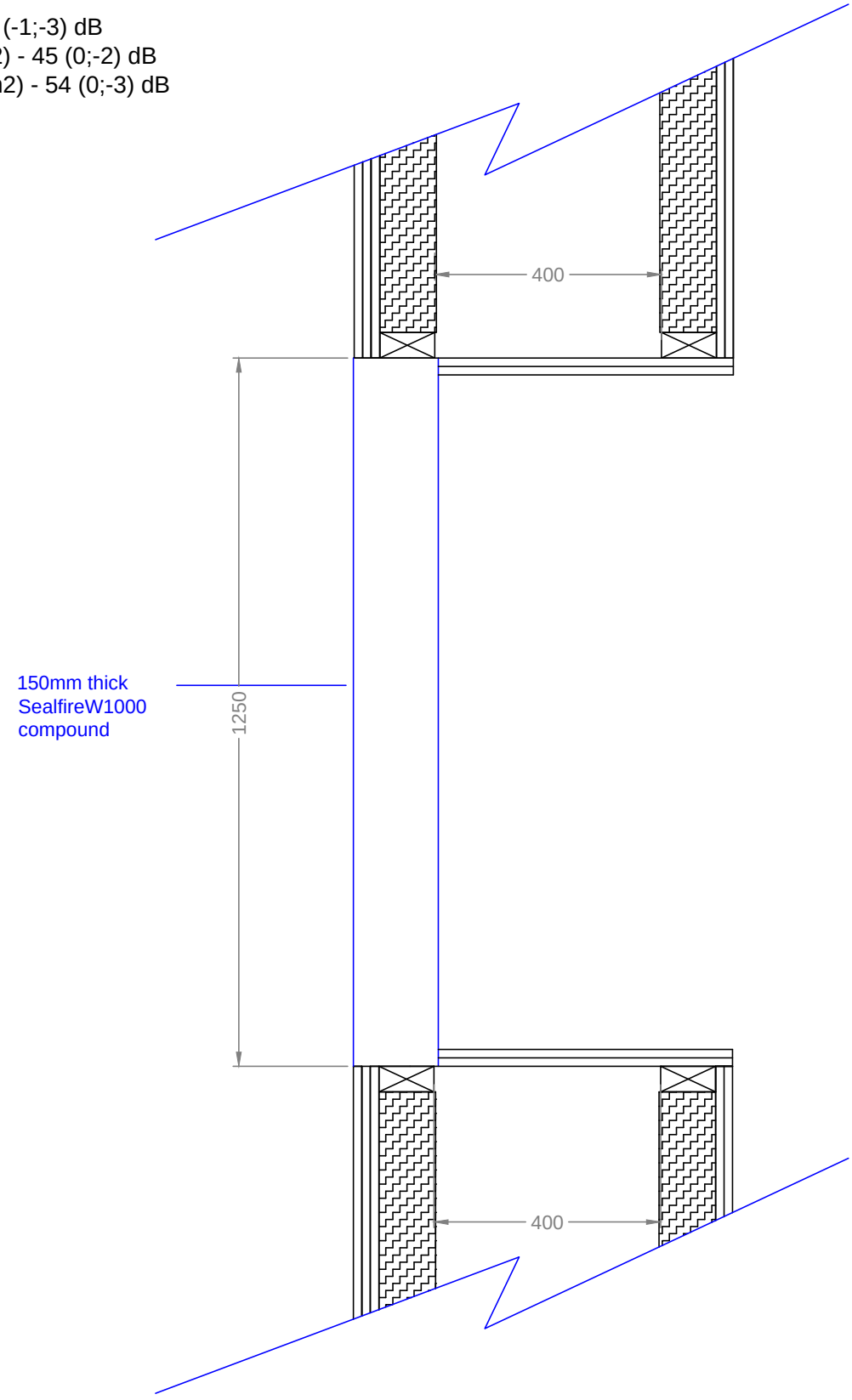
Appendix 5 Figure 23 | Supporting Construction Detail

P026
Dnew - 53 (-1;-3) dB
Rw (1.9m2) - 45 (0;-2) dB
Rw (14.2m2) - 54 (0;-3) dB



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