

Bu Rapor Laboratuvarın yazılı izni olmadan kışmen konyalanın coğaltılamaz. İmzasız ve mühürsüz raporlar geçersizdir



TEST REPORT

Report Number	: 060.452.1 / 2015
Report Date	: 07 / 10 / 2015
Testing Reference	 TS EN ISO 10140-2 Acoustics - Laboratory Measurement of Sound Insulation of Building Elements Part2: Measurement of Airborne Sound Insulation
Product	: BS 66 – Sliding Window System
Client	: Burak Alüminyum San. ve Tic. A.Ş.

1. PREFACE

This report comprises of tests and results, which were performed by FTI Facade Testing Institute at the address; Çakıl Mah. Şehit Teğmen Tamer Aydın Sok. No: 60/A 34540 Çatalca - Istanbul / TURKIYE. Test sample name is BS 66 Sliding Window System which has been produced by Burak Aluminyum San. ve Tic. A.Ş.

Test was carried out on 30 / 09 / 2015 for the determination of acoustic performance. Test sample has been sent to FTI Laboratory on 27 / 08 / 2015.

2. CLIENT

Burak Aluminyum San. ve Tic. A.Ş. Orta Mah.Hamdi Efendi Sok. No:16 D:32 İztower Soğanlık - Kartal / İstanbul / TÜRKİYE 34880

3. TEST METHODS

The above mentioned test has been carried out in project specifications and classified on the standard indicated below. Test has been reported as the number of 060.452.1 / 2015 by Sinan BAYRAKTAR

TS EN ISO 10140-2	Acoustics-Laboratory Measurement of Sound Insulation of Building Elements	
	Part2: Measurement of Airborne Sound Insulation	
TS EN ISO 717-1	Acoustics-Rating of Sound Insulation in Buildings and of Building Elements	
	Part 1: Airborne Sound Insulation	

4. TEST DATE AND PARTICIPANTS

Test was performed on 30 / 09 / 2015 with the following participants:

Mr. Öner ARSLAN	FTI	Directive Manager of Notified Body
Mr. Serhat ÇOLAK	FTI	Testing Manager
Miss. Nilay BULUT	FTI	Testing Engineer

5. DESCRIPTION OF TEST SAMPLE

Type of sample	Sliding Window System
System Name	BS 66
Dimension of Sample (L x H)	1600 mm x 1400 mm
Surface area of Sample	2,24 m ²
Operable joint length	8,80 m
Glass Type	6 mm Helio Clear + 12mm Air Cavity + 6mm Helio Clear

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6. CONDITIONS

Local Temperature	18	°C
Humidity	68	%
Atmospheric Pressure	1021,0	mbar

7. TEST PERFORMANCE

7.1. Test Results

According to the airborne sound insulation tests conducted in the laboratory, weighted sound reduction index rated according to TS EN ISO 717-1 are given here below.

Rw (C; Ctr) = 35,9 (-1,3;-3,8) dB / 2015.497.A16 / 30.09.2015

7.2. Mounting in the Laboratory

Test Opening Size	1600 mm x 1400 mm
Test Setup	Modular test wall incorporating openings with differing size.
	Laboratory conforms to TS EN ISO 10140-2 suppressed flanking
	transmission suite conditions. Test wall frame is mounted with 50
	mm continuous acoustic break filled with rockwool insulation and
	sealed with elastic PU foam and non setting mastic on all sides. The
	insert frame was adapted to the necessary test area by utilisation of
	a high sound insulation light weight wall detail.
Mounting of The Specimen	Carried out by staff of client.
Mounting Conditions	Test specimen was fitted with foam insulation and sealed on both
	sides with non setting mastic.
7.3. Testing Conditions	
Source Room	Volume= 105,8 ; RT < 1,7 s
Receiving Room	Volume= 95,1 ; RT < 1,5 s
Test Opening in The Wall	Largest opening 3890 x 2570 mm (9,99 m ²)
Depth of Test Opening	250 mm
Total Partition Wall Area	21,07 m ²
Maximum Sound Insulation	R'max =59 dB
Sound Source	Dodecahedron loudspeaker placed in two positions inside the
	source room

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Microphone System	Rotating microphone positioned inside the receiving room with
	60s/rotation. A microphone with tripod placed in five different
	positions inside the source room.
Source Signal	Wideband white noise
Filters	One-third octave band filters with centre frequencies within the
	range of 50-5000Hz
Thermo-Hygro	18ºC ; 68% RH ;1021,0 mbar

7.4. Test Equipment

Instrument	Туре	Manufacturer
Acoustic Analyser	NOR 140	Norsonic
Sound Level Calibrator	NOR 1251	Norsonic
Sound Source	NOR 270	Norsonic
Amplifier	NOR 280	Norsonic
Rotating Microphone Boom	NOR 265	Norsonic
Microphone Ext. Cables	NOR 1494	Norsonic
Temperature-Humidity Sensor	TFA Dostmann REF 486	TFA Dostmann/Wertheim

7.5. Detailed Result

Results obtained from the airborne sound insulation tests of the specimen are given in the following graphs prepared according to TS EN ISO 717-1.

Background noise correction was not necessary.

8. PICTURE OF TEST SAMPLE

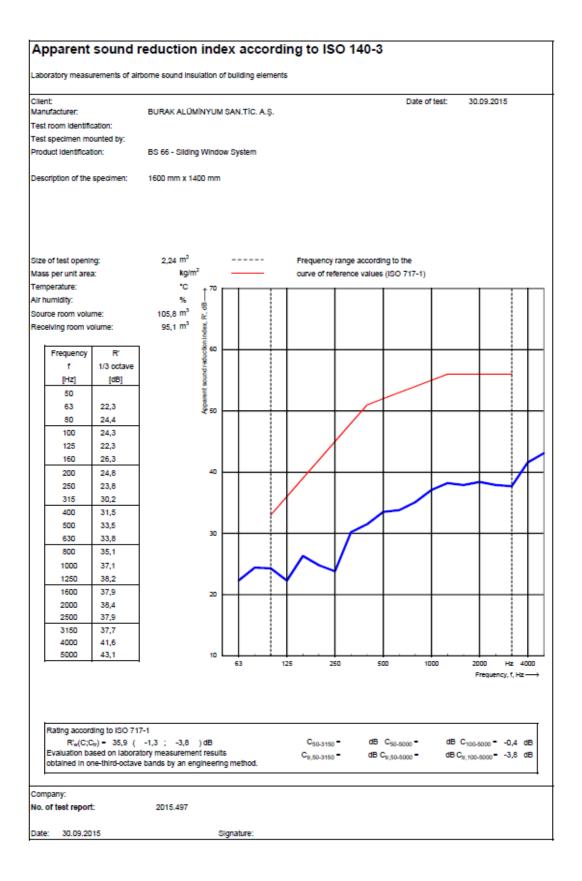
View from the source room



View from the receiving room

9. RESULT

	МОСКИР	RESULT	CLASSIFICATION
TS EN ISO 10140-2	BS 66 - Sliding Window System	Rw(C;Ctr) = 35,9 (-1,3;-3,8)dB	-



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