

PROJECT NUMBER: 30160-09-08457
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DATE: September 17, 2009

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Investigative Chemistry Geotechnical Construction Materials
 Non Destructive Testing Failure Analysis Product Evaluation
 Metallurgical Analysis Materials Testing Welder Qualification

**SOUND TRANSMISSION TESTING CONDUCTED
 ON STEEL DOORS**

Prepared for:
MEGAMET INDUSTRIES INC.
Attn: Mr. Edward Wall Jr.
3228 6th Avenue North
P.O. Box 635
Birmingham, AL 35201

CLIENT PURCHASE ORDER: 70109

Prepared By:



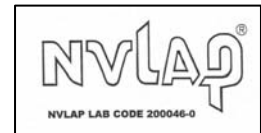
Kyle Hall
Sr. Engineering Technician
Product Testing Department

Reviewed By:



Mathew N. Botz
Project Manager
Product Testing Department
(651) 659-7353

The test results contained in this report pertain only to the samples submitted for testing and not necessarily to all similar products.



Sound Transmission Class Testing (ASTM E90-04)

INTRODUCTION:

This report presents the results of sound transmission testing conducted on various Steel Doors. The doors were submitted by Mr. Edward Wall Jr. of MegaMet Industries Inc. This work was completed on September 12, 2009.

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Stork Twin City Testing Corporation has been accredited by the U.S. Department of Commerce and the National Institute of Standards and Technology (NIST, formerly NBS) under their National Voluntary Laboratory Accreditation Program (NVLAP) for conducting ASTM E90 test procedure. This report may not be used to claim product endorsement by NVLAP, NIST or any agency of the U.S. Government.

SPECIMEN DESCRIPTION: (Also see "Test Results")

Each door was identified by MegaMet Industries Inc. The metal door frame measured 43-1/4" x 89-1/4" x 5-3/8" and was insulated with fiberglass and lumber. The door blank measured 35-13/16" x 83-1/2" x 1-3/4". Each Door Sample was steel faced. Door sweep and frame gasketing information is detailed the test result summary.

Tests #1,3,5,7,9,11: The door panel was sealed to the frame using a heavy, non-hardening mastic material. This excluded all flanking noise associated with weatherstripping/gasket leakage.

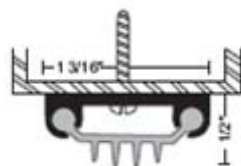
Weather Seal Description

Location of Install	General Name	Dimensions
Threshold	ADA Compliant Bumper Seal Threshold	5" wide x 1/2" tall
Door Bottom	Surface Mount Door Sweep (triple fin)	1-3/4" tall
Door Top - Mortise	Vinyl Mortise Door bottom (4-vinyl fins)	1-3/4" wide x 1/2" high
Frame Jambs & Head	Perimeter Seal (Compression Bulb, 3/16")	1-1/16" wide x 5/16" high
Frame Jambs & Head	Perimeter Bulb Seal (adhesive backing)	1/2" wide x 1/4" tall

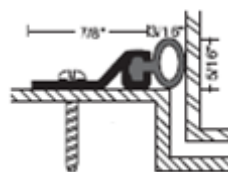


Sweep

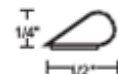
Mortise Door bottom



Perimeter Seal



Perimeter Bulb Seal



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SUMMARY OF TEST RESULTS:

Test ID	Door Core Description	Operating / Sealed Condition	Total Weight (lbs)	Frame Weight (lbs)	Door Panel* Weight (lbs)	Weight (psf)	Test Results		
							STC	Def	OITC
1	Polystyrene	Sealed Panel	249.5	120	129.5	4.8	36	22	32
2		Operating Door	249.5	120	129.5	4.8	37	32	31
3	Polyurethane	Sealed Panel	251.5	120	131.5	4.9	35	29	31
4		Operating Door	251.5	120	131.5	4.9	35	32	31
5	Acousti-blok	Sealed Panel	274	120	154	5.7	39	28	34
6		Operating Door	274	120	154	5.7	36	27	32
7	Mineral-Core	Sealed Panel	293	120	173	6.4	37	25	33
8		Operating Door	293	120	173	6.4	37	30	33
9	Lead Lined	Sealed Panel	324	120	204	7.6	43	31	36
10		Operating Door	324	120	204	7.6	39	24	35
11	Honeycomb	Sealed Panel	254	120	134	5.0	37	22	32
12		Operating Door	254	120	134	5.0	37	29	33

* - Door Weight Only. Data sheets in 'TEST RESULTS' section, contain entire assembly weight. See 'TEST RESULTS' section for detailed results.

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TEST PROCEDURE:

All products were fully operational unless noted otherwise.

Sound Transmission Test

ASTM:E90(04), "Laboratory Measurement of Airborne Sound Transmission of Building Partitions," was followed in every respect. The STC value was obtained by applying the Transmission Loss (TL) values to the STC reference contour of ASTM: E413(04), "Determination of Sound Transmission Class." The actual transmission loss at each frequency was calculated by the following equations:

$$TL = NR + 10 \log S - 10 \log A_2$$

where: TL = Transmission Loss (dB)
 NR = Noise Reduction (dB)
 S = Surface area common to both sides (sq. ft.)
 A₂ = Sound absorption of the receiving room with the sample in place (sabins)

OITC Procedure

ASTM:E1332(03), "Determination of Outdoor-Indoor Transmission Class", was followed in every respect. Basically, the OITC was calculated by using the sound transmission loss values in the 80 to 4000 Hz range as measured in accordance with ASTM E-90(04). These transmission loss data are then used to determine the A-weighted sound level reduction of the specimen for the reference source spectrum specified in Table 1 of ASTM E1332(03). The appropriate calculations were made to determine the OITC value. The source room has a volume of 2948-ft³ (83-m³) and the termination room has a volume of 5825-ft³ (165-m³).

The temperatures and relative humidity of the termination room met the requirements of the standard during and after the test. All frequencies met the requirements for 95% confidence established by the standard. Filler wall performance was established prior to testing at a STC rating of 66.

TEST EQUIPMENT:

<u>Manufacturer</u>	<u>Model</u>	<u>Description</u>	<u>S/N</u>
Norwegian Electronics	NE830	Real Time Analyzer	11511
Brüel & Kjær	3923	Rotating Microphone Boom	815424
Norsonic (Source Rm)	1230	Pressure Condenser Microphone	26361
Brüel & Kjær (Term Rm)	4192	Pressure Condenser Microphone	2360314

REMARKS:

The test sample will be retained for a period of **15-days** and then discarded unless notified by the client.

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TEST RESULTS:

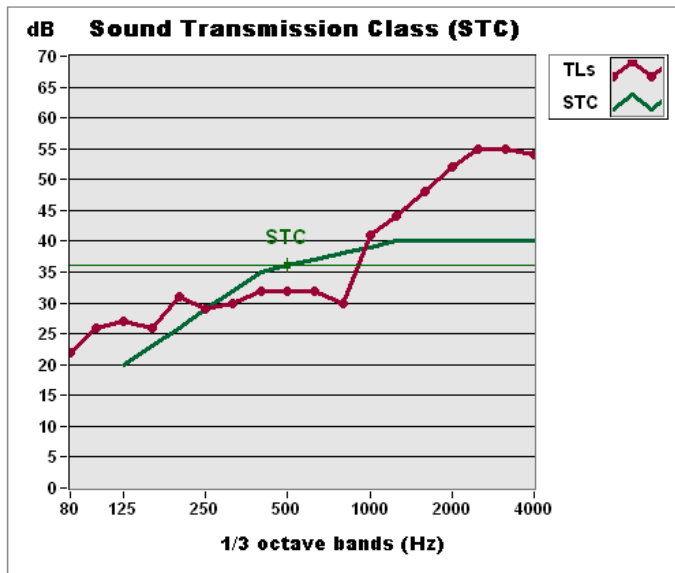
Filename: **ASTM E90 - Laboratory Sound Transmission Class**

Project Folder: Client: Product: Model #: Quantity: Comment:

Sample Size - Wt.: Sample Description:

Time Stamp:

F (Hz)	TLs	95% CI	def
80	22	3.0	-
100	26	1.0	-
125	27	1.7	0
160	26	1.5	0
200	31	0.9	0
250	29	0.5	0
315	30	0.4	2
400	32	0.3	3
500	32	0.4	4
630	32	0.3	5
800	30	0.2	8
1000	41	0.2	0
1250	44	0.2	0
1600	48	0.2	0
2000	52	0.2	0
2500	55	0.2	0
3150	55	0.2	0
4000	54	0.3	0



STC = 36 def: 22
OITC: 32

Temp (°C) R.H. (%) ATM (mbar)

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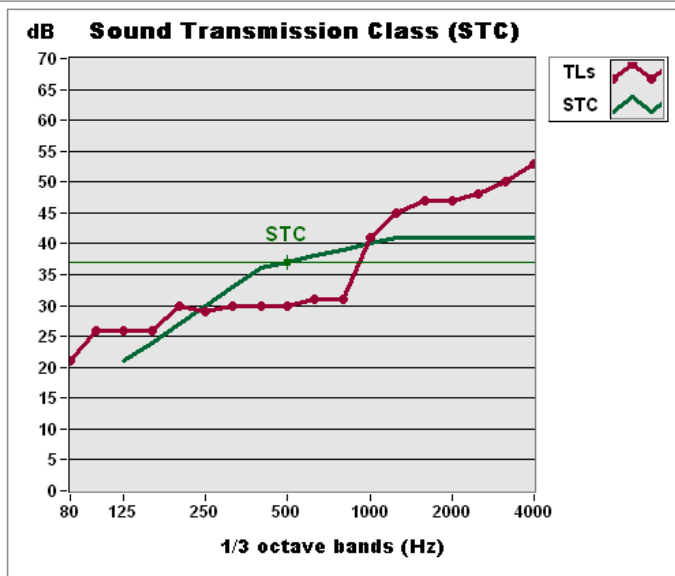
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TEST RESULTS:

Filename	test #2					ASTM E90 - Laboratory Sound Transmission Class				
Project Folder	Client	Product	Model #	Quantity	Comment					
08457 MegaMet	MegaMet Inc.	Steel Door #1	POLY MEGA-01	1						
Sample Size - Wt.			Sample Description							
43.2 in x 89.0 in x 5-1/4" - 249 lbs			MegaMet Steel Door Polystyrene Core, MEGA -01 :							
Time Stamp										
Thu, Sep 10, 2009 - 1:27 PM										

F (Hz)	TLs	95% CI	def
80	21	3.0	-
100	26	1.0	-
125	26	1.7	0
160	26	1.5	0
200	30	0.9	0
250	29	0.5	1
315	30	0.4	3
400	30	0.3	6
500	30	0.4	7
630	31	0.3	7
800	31	0.2	8
1000	41	0.2	0
1250	45	0.2	0
1600	47	0.2	0
2000	47	0.2	0
2500	48	0.2	0
3150	50	0.2	0
4000	53	0.3	0



STC = 37 def: 32
OITC: 31

Temp (°C) **22.4** R.H. (%) **58** ATM (mbar) **1005**

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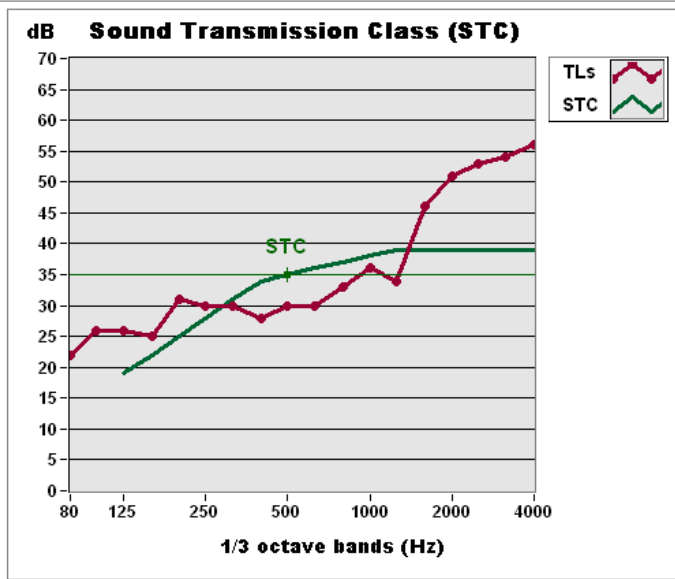
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TEST RESULTS:

Filename test #3		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #2	Model # U-RETH MEGA-01	Quantity 1	Comment Sealed Door
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 251 lbs		Sample Description MegaMet Steel Door Polyurethane Core, MEGA-01 :			
Time Stamp Thu, Sep 10, 2009 - 2:39 PM					

F (Hz)	TLs - sample TL values (dB)		
	TLs	95% CI	def
80	22	3.0	-
100	26	1.0	-
125	26	1.7	0
160	25	1.5	0
200	31	0.9	0
250	30	0.5	0
315	30	0.4	1
400	28	0.3	6
500	30	0.4	5
630	30	0.3	6
800	33	0.2	4
1000	36	0.2	2
1250	34	0.2	5
1600	46	0.2	0
2000	51	0.2	0
2500	53	0.2	0
3150	54	0.2	0
4000	56	0.3	0



STC = 35 def: 29
OITC: 31

Temp (°C)	R.H. (%)	ATM (mbar)
22.4	58	1005

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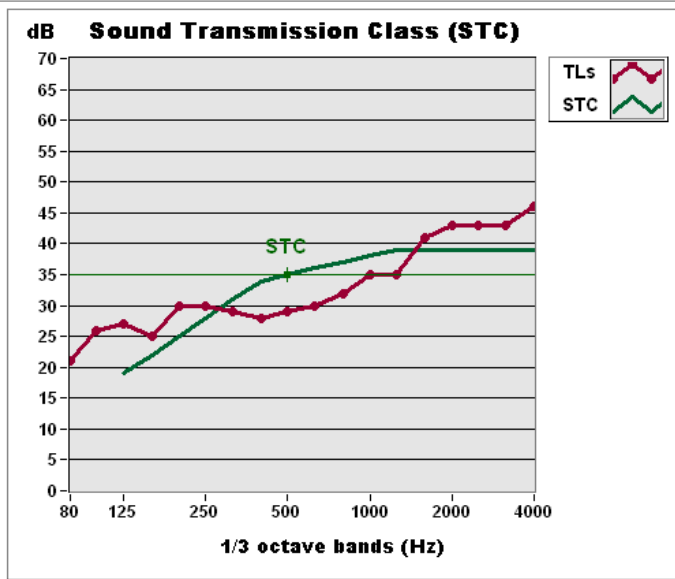
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TEST RESULTS:

Filename test #4		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #2	Model # U-RETH MEGA-01	Quantity 1	Comment
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 251 lbs		Sample Description MegaMet Steel Door Polyurethane Core, MEGA-01 :			
Time Stamp Thu, Sep 10, 2009 - 3:16 PM					

F (Hz)	TLs	95% CI	def
80	21	3.0	-
100	26	1.0	-
125	27	1.7	0
160	25	1.5	0
200	30	0.9	0
250	30	0.5	0
315	29	0.4	2
400	28	0.3	6
500	29	0.4	6
630	30	0.3	6
800	32	0.2	5
1000	35	0.2	3
1250	35	0.2	4
1600	41	0.2	0
2000	43	0.2	0
2500	43	0.2	0
3150	43	0.2	0
4000	46	0.3	0



STC = 35 def: 32
OITC: 31

Temp (°C)	R.H. (%)	ATM (mbar)
22.4	58	1005

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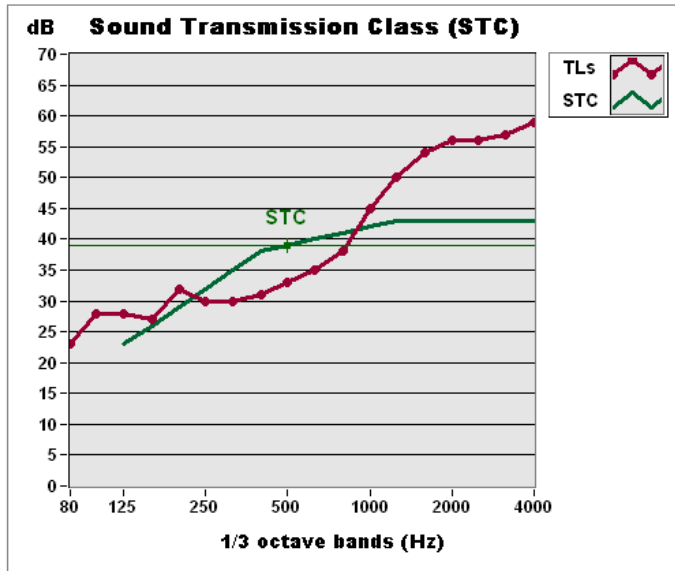
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TEST RESULTS:

Filename test #5		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #3	Model # Acousti-Blok, MEGA-	Quantity 1	Comment Sealed Door
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 274 lbs		Sample Description MegaMet Steel Door Acousti-Blok Core, MEGA-01 :			
Time Stamp Fri, Sep 11, 2009 - 8:38 AM					

F (Hz)	TLs	95% CI	def
80	23	4.3	-
100	28	1.8	-
125	28	2.8	0
160	27	3.5	0
200	32	2.8	0
250	30	2.5	2
315	30	2.7	5
400	31	2.3	7
500	33	2.0	6
630	35	1.7	5
800	38	1.4	3
1000	45	1.2	0
1250	50	1.0	0
1600	54	0.8	0
2000	56	0.6	0
2500	56	0.5	0
3150	57	0.4	0
4000	59	0.3	0



STC = 39 def: 28
OITC: 34

Temp (°C)	R.H. (%)	ATM (mbar)
22.4	58	1005

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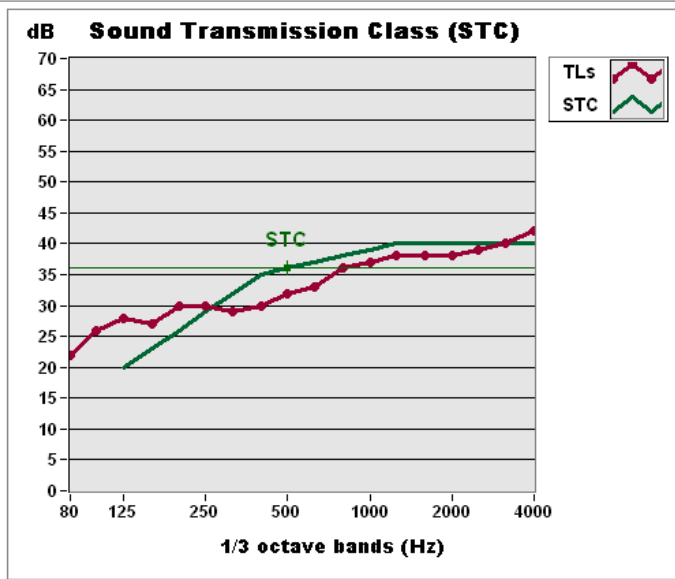
DATE: September 17, 2009

TEST RESULTS:

Filename test #6		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #3	Model # Acousti-Blok, MEGA-	Quantity 1	Comment
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 274 lbs		Sample Description MegaMet Steel Door Acousti-Blok Core, MEGA-01 :			
Time Stamp Fri, Sep 11, 2009 - 9:06 AM					

F (Hz)	TLs	95% CI	def
80	22	3.3	-
100	26	1.2	-
125	28	1.5	0
160	27	1.8	0
200	30	1.2	0
250	30	0.6	0
315	29	0.5	3
400	30	0.5	5
500	32	0.4	4
630	33	0.3	4
800	36	0.2	2
1000	37	0.2	2
1250	38	0.2	2
1600	38	0.2	2
2000	38	0.2	2
2500	39	0.2	1
3150	40	0.2	0
4000	42	0.2	0

Temp (°C) **22.4** R.H. (%) **58** ATM (mbar) **1005**



STC = 36 def: 27
OITC: 32

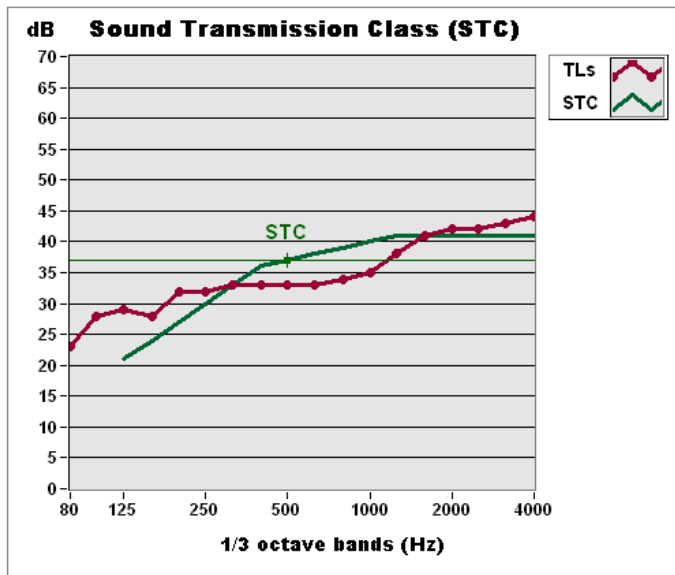
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TEST RESULTS:

Filename test #7		ASTM E90 - Laboratory Sound Transmission Class				
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #4	Model # Mineral Core,	Quantity 1	Comment Sealed Panel	
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 293 lbs		Sample Description MegaMet Steel Door Mineral Core, MEGA-01 :				
Time Stamp Fri, Sep 11, 2009 - 9:54 AM						

F (Hz)	TLs	95% CI	def
80	23	3.1	-
100	28	1.1	-
125	29	1.5	0
160	28	1.9	0
200	32	0.8	0
250	32	0.6	0
315	33	0.4	0
400	33	0.3	3
500	33	0.3	4
630	33	0.3	5
800	34	0.2	5
1000	35	0.2	5
1250	38	0.2	3
1600	41	0.2	0
2000	42	0.2	0
2500	42	0.2	0
3150	43	0.1	0
4000	44	0.2	0

Temp (°C) **22.5** R.H. (%) **59** ATM (mbar) **1005**



STC = 37 def: 25
OITC: 33

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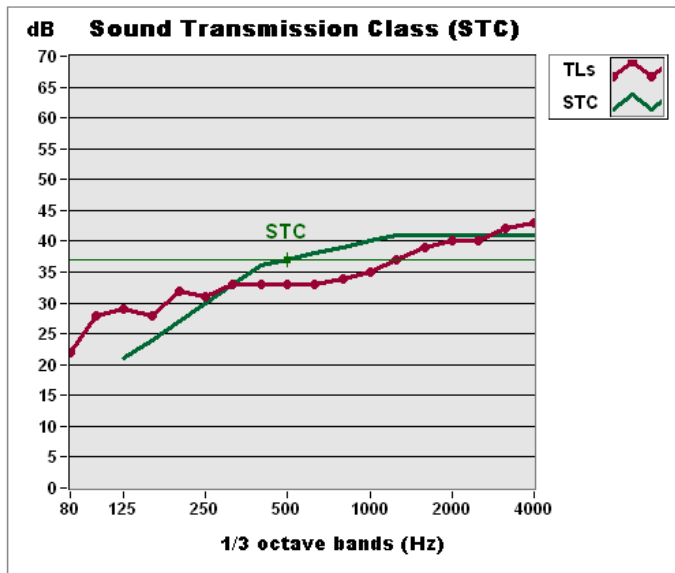
TEST RESULTS:

Filename: **ASTM E90 - Laboratory Sound Transmission Class**

Project Folder: Client: Product: Model #: Quantity: Comment:

Sample Size - Wt.: Sample Description: Time Stamp:

F (Hz)	TLs	95% CI	def
80	22	2.9	-
100	28	1.1	-
125	29	1.9	0
160	28	1.3	0
200	32	1.3	0
250	31	0.5	0
315	33	0.4	0
400	33	0.4	3
500	33	0.4	4
630	33	0.3	5
800	34	0.1	5
1000	35	0.2	5
1250	37	0.2	4
1600	39	0.2	2
2000	40	0.2	1
2500	40	0.2	1
3150	42	0.2	0
4000	43	0.3	0



STC = 37 def: 30
OITC: 33

Temp (°C) R.H. (%) ATM (mbar)

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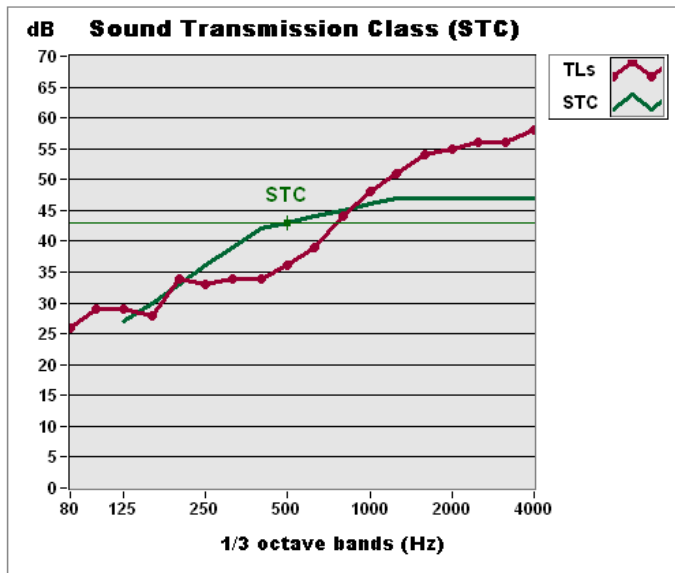
DATE: September 17, 2009

TEST RESULTS:

Filename test #9		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #5	Model # LEAD MEGA-01	Quantity 1	Comment Sealed Door
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 324 lbs		Sample Description MegaMet Steel Door LEAD LINED CORE, MEGA-01 :			
Time Stamp Fri, Sep 11, 2009 - 10:39 AM					

F (Hz)	TLs	95% CI	def
80	26	2.9	-
100	29	1.1	-
125	29	1.9	0
160	28	1.3	2
200	34	1.3	0
250	33	0.5	3
315	34	0.4	5
400	34	0.4	8
500	36	0.4	7
630	39	0.3	5
800	44	0.1	1
1000	48	0.2	0
1250	51	0.2	0
1600	54	0.2	0
2000	55	0.2	0
2500	56	0.2	0
3150	56	0.2	0
4000	58	0.3	0

Temp (°C) **22.5** R.H. (%) **59** ATM (mbar) **1005**



STC = 43 def: 31
OITC: 36

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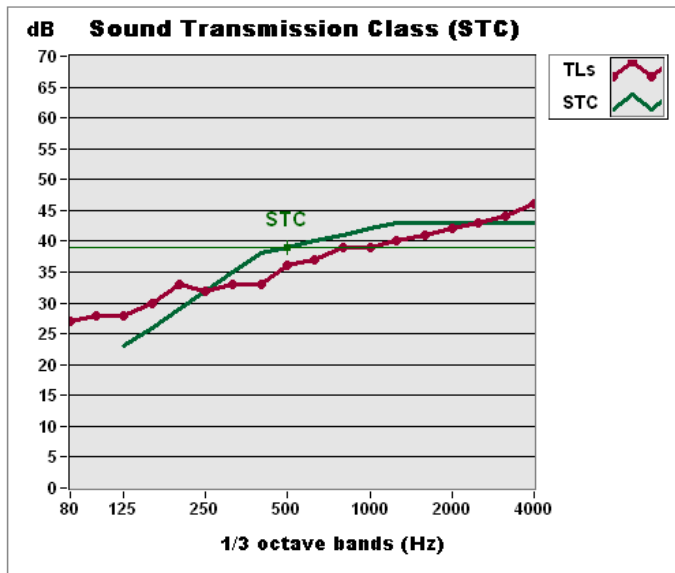
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TEST RESULTS:

Filename test #10		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #5	Model # Lead MEGA-01	Quantity 1	Comment
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 324 lbs		Sample Description MegaMet Steel Door Lead Lined Core, MEGA-01 :			
Time Stamp Sat, Sep 12, 2009 - 9:54 AM					

F (Hz)	TLs	95% CI	def
80	27	4.3	-
100	28	2.0	-
125	28	2.8	0
160	30	3.5	0
200	33	2.5	0
250	32	2.6	0
315	33	3.0	2
400	33	2.4	5
500	36	2.1	3
630	37	1.8	3
800	39	1.4	2
1000	39	1.2	3
1250	40	1.0	3
1600	41	0.8	2
2000	42	0.6	1
2500	43	0.5	0
3150	44	0.4	0
4000	46	0.3	0



STC = 39 def: 24
OITC: 35

Temp (°C) **22.5** R.H. (%) **59** ATM (mbar) **1005**

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Materials Technology

PROJECT NUMBER: 30160-09-08457

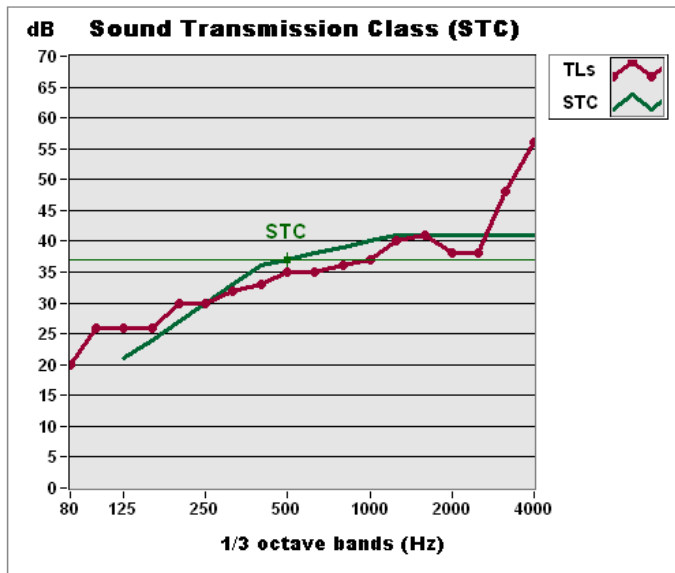
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DATE: September 17, 2009

TEST RESULTS:

Filename test #11		ASTM E90 - Laboratory Sound Transmission Class			
Project Folder 08457 MegaMet	Client MegaMet Inc.	Product Steel Door #6	Model # Honey-C MEGA-01	Quantity 1	Comment Sealed Door
Sample Size - Wt. 43.2 in x 89.0 in x 5-1/4" - 254 lbs		Sample Description MegaMet Steel Door HONEYCOMB CORE, MEGA-01 :			
Time Stamp Sat, Sep 12, 2009 - 9:54 AM					

F (Hz)	TLs	95% CI	def
80	20	4.3	-
100	26	2.0	-
125	26	2.8	0
160	26	3.5	0
200	30	2.5	0
250	30	2.6	0
315	32	3.0	1
400	33	2.4	3
500	35	2.1	2
630	35	1.8	3
800	36	1.4	3
1000	37	1.2	3
1250	40	1.0	1
1600	41	0.8	0
2000	38	0.6	3
2500	38	0.5	3
3150	48	0.4	0
4000	56	0.3	0



STC = 37 def: 22
OITC: 32

Temp (°C)	R.H. (%)	ATM (mbar)
22.5	59	1005

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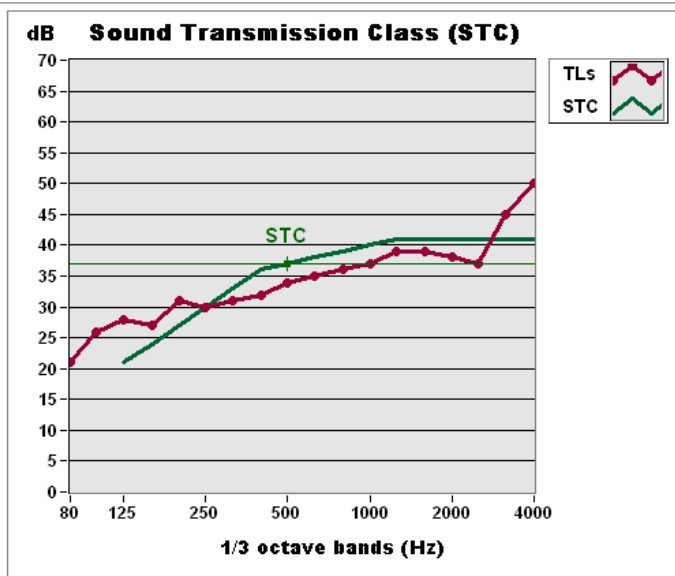
TEST RESULTS:

Filename: **ASTM E90 - Laboratory Sound Transmission Class**

Project Folder: Client: Product: Model #: Quantity: Comment:

Sample Size - Wt.: Sample Description: Time Stamp:

F (Hz)	TLs	95% CI	def
80	21	4.3	-
100	26	2.0	-
125	28	2.8	0
160	27	3.5	0
200	31	2.5	0
250	30	2.6	0
315	31	3.0	2
400	32	2.4	4
500	34	2.1	3
630	35	1.8	3
800	36	1.4	3
1000	37	1.2	3
1250	39	1.0	2
1600	39	0.8	2
2000	38	0.6	3
2500	37	0.5	4
3150	45	0.4	0
4000	50	0.3	0



STC = 37 def: 29
OITC: 33

Temp (°C) R.H. (%) ATM (mbar)

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