

DISPLAY THIS CARD ON PRINCIPAL FRONTAGE OF WORK

CITY OF PORTLAND

Please Read Application And Notes, If Any, Attached

PERMIT ISSUED JUN 22 2005 CITY OF PORTLAND

Permit Number: 050715

PERMIT

This is to certify that Jarita Development Llc /Jarita Development LLC/Lou Wood

has permission to Building 2 - 2 Family Dwelling Units 49, 43

AT 0 Lane Ave Jarita Court 308 A001001

provided that the person or persons, firm or organization accepting this permit shall comply with all of the provisions of the Statutes of the State and of the Ordinances of the City of Portland regulating the construction, maintenance and use of buildings and structures, and of the application on file in this department.

Apply to Public Works for street line and grade if nature of work requires such information.

Notification of inspection must be given and when permission procured before this building or part thereof is started or closed-in. FOUR HOUR NOTICE IS REQUIRED.

A certificate of occupancy must be procured by owner before this building or part thereof is occupied.

OTHER REQUIRED APPROVALS

Fire Dept.

Health Dept.

Appeal Board

Other

Department Name

Handwritten signature and date 6/22/05

Director - Building & Inspection Services

PENALTY FOR REMOVING THIS CARD

City of Portland, Maine - Building or Use Permit Application

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-0713	Issue Date: JUN 22 2005	Permit No.:	308 A001001
Owner Address: 159 Harris Rd		Phone:	
Contractor Address: 120 Exchange St. Portland		Phone: 506128	
Lessee/Buyer's Name:		Phone:	
Permit Type:		Zone: R3/F	

Location of Construction: 0 Lane Ave JARJA (cont)	Owner Name: Jarita Development Llc
Business Name:	Contractor Name: Jarita Development LLC/ Lou Wood
Lessee/Buyer's Name:	Phone:

Past Use: Vacant Land	Proposed Use: 2 -2 family Dwellings - Units 46 & 49, 45 & 43
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Permit Fee: \$4,101.00	Cost of Work: \$420,000.00	CEO District: 5
FIRE DEPT: N/A	INSPECTION: Use Group: R-3 Type: SB IRC 2003	Signature:
PEDESTRIAN ACTIVITIES DISTRICT (P.A.D.)		
Action: <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied		
Signature:		Date:

Permit Taken By: Idobson	Date Applied For: 06/06/2005	Zoning Approval
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Special Zone or Reviews <input type="checkbox"/> Shoreland N/A <input type="checkbox"/> Wetland <input type="checkbox"/> Flood Zone Panel 6 Zone X <input type="checkbox"/> Subdivision <input checked="" type="checkbox"/> Site Plan original # 2002-0161 Maj <input checked="" type="checkbox"/> Minor <input type="checkbox"/> MM <input type="checkbox"/> Date: 6/20/05	Zoning Appeal <input type="checkbox"/> Variance <input type="checkbox"/> Miscellaneous <input type="checkbox"/> Conditional Use <input type="checkbox"/> interpretation <input type="checkbox"/> Approved <input type="checkbox"/> Denied Date:	Hi oric reservation <input checked="" type="checkbox"/> Not in District or Landmark <input type="checkbox"/> Does Not Require Review <input type="checkbox"/> Requires Review <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/Conditions <input type="checkbox"/> Denied Date:
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CERTIFICATION

I hereby certify that I am the owner of record of the named property, or that the proposed work is authorized by the owner of record and that I have been authorized by the owner to make this application as his authorized agent and I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in the application is issued, I certify that the code official's authorized representative shall have the authority to enter all areas covered by such permit at any reasonable hour to enforce the provision of the code(s) applicable to such permit.

SIGNATURE OF APPLICANT	ADDRESS	DATE	PHONE
RESPONSIBLE PERSON IN CHARGE OF WORK, TITLE		DATE	PHONE

All Purpose Building Permit Application

If you or the property owner owes real estate or personal property taxes or user charges on any property within the City, payment arrangements must be made before permits of any kind are accepted.

Location/Address of Construction: <u>JANTA COURT, PORTLAND, ME</u>		
Total Square Footage of Proposed Structure <u>3600 +/-</u>	Square Footage of Lot <u>11AC</u>	
Tax Assessor's Chart, Block & Lot Chart# <u>308</u> Block# <u>A</u> Lot# <u>001</u>	Owner: <u>JARITA DEVELOPMENT LLC</u>	Telephone: <u>877-6959</u>
Lessee/Buyer's Name (if Applicable) <u>SAME</u>	Applicant name, address & telephone: <u>120 Exchange St PORTLAND, ME 04101</u>	Cost Of Work: <u>\$420,000.00</u> <u>3801</u> <u>ply</u> Fee: <u>\$4101.00</u> <u>+300</u> <u>280</u>
<p>If the location is currently vacant, what was prior use: _____</p> <p>Approximately how long has it been vacant: _____</p> <p>Proposed use: <u>SINGLE Family Homes</u></p> <p>Project description: <u>Build 2-2 Family Buid</u> # <u>46+49, 45+43</u></p> <p style="text-align: right;"><i>Foundation on separate permit</i></p>		
<p>Contractor's name, address & telephone: <u>Development LLC</u></p> <p>Who should we contact when the permit is ready: <u>LOUIS C WOOD</u></p> <p>Mailing address: <u>450-6128</u></p> <p>We will contact you by phone when the permit is ready. You must come in and pick up the permit and review the requirements before starting any work, with a Plan Reviewer. A stop work order will be issued and a \$100.00 fee if any work starts before the permit is picked up. PHONE: <u>450-6128</u></p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin-left: auto;"> <p>DEPT. OF BUILDING INSPECTION CITY OF PORTLAND, ME</p> <p style="text-align: center;">JUN 6 2005</p> <p style="text-align: center; font-weight: bold; font-size: 1.2em;">RECEIVED</p> </div>		

IF THE REQUIRED INFORMATION IS NOT INCLUDED IN THE SUBMISSIONS THE PERMIT WILL BE AUTOMATICALLY DENIED AT THE DISCRETION OF THE BUILDING/PLANNING DEPARTMENT, WE MAY REQUIRE ADDITIONAL INFORMATION IN ORDER TO APPROVE THIS PERMIT.

I hereby certify that I am the Owner of record of the named property, or that the owner of record authorizes the proposed work and that I have been authorized by the owner to make this application as his/her authorized agent. I agree to conform to all applicable laws of this jurisdiction. In addition, if a permit for work described in this application is issued, I certify that the Code Official's authorized representative shall have the authority to enter all areas covered by this permit at any reasonable hour to enforce the provisions of the codes applicable to this permit.

Signature of applicant: <u>[Signature]</u>	Date: <u>6-6-05</u>
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This is NOT a permit, you may not commence ANY work until the permit is issued.
If you are in a Historic District you may be subject to additional permitting and fees with the Planning Department on the 4th floor of City Hall

✓ # 0209

Applicant/Owner: Lou Wood/Janita Dev. LLC Date: 6/20/05
Address: #46 & 49 - 45 & 43 Jarita Court C-B-L: ~~308-A-001~~
308-A-001

CHECK-LIST FOR ZONING COMPLIANCE - PRUDS

Permit Application Number: 05-0713 (foundations are on
New or Existing Development: on previously issued #05-0344
Zone Location: R-3 PRUD
Proposed Work/Use to construct Bldgs on existing foundations
Interior or corner lot: #43 & 45 and #46 & 49
Sewage Disposal: City
Street Frontage: 50' min - 50' shown
Max. Height: 35' MAX - 22.5' scaled - no Daylight Mansards shown
Max. Length of Bldg - with/without attached garage(s): 140' MAX - 66' shown
Min. Setbacks from External Subdivision Property Lines: 25' min - 25' exactly
Min. Distance Between Detached PRUD Buildings: 16' min - 16' exactly
Required Recreation Open Space: 6000 # - 6035 # Approved
Lot Area Required: 3 Acres min for PRUD - 9.21 Acres shown
Net Land Area Per Dwelling Unit: $133,647 \div 6,500 = 20.56$ or 20 D.U. MAX
Off-street Parking: - 2 pkg spc per D.U. plus 1 extra for every 6th D.U. Approved
Site Plan: originally approved under #2002-0161
Shoreland/Stream Protection: N/A
Flood Plain: Panel 6 Zone X

$$16 \times 2 = 32$$
$$16 \div 6 = 3 \text{ (2.66)}$$

35 req

City of Portland, Maine - Building or Use Permit

389 Congress Street, 04101 Tel: (207) 874-8703, Fax: (207) 874-8716

Permit No: 05-0713	Date Applied For: 0610612005	CBL: 308 A001001
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Location of Construction: 0 Jarita Court	Owner Name: Jarita Development Llc	Owner Address: 159 Harris Rd	Phone:
Business Name:	Contractor Name: Jarita Development LLC/ Lou Wood	Contractor Address: 120 Exchange St. Portland	Phone (207) 450-6128
Lessee/Buyer's Name	Phone:	Permit Type: Single Family	

Proposed Use: 2 -2 family Dwellings - Units 46 & 49 ,45 & 43	Proposed Project Description: Building 2 - 2 Family Dwellings-Units 46 & 49 ,45 & 43
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Dept: Zoning **Status:** Approved with Conditions **Reviewer:** Marge Schmuckal **Approval Date:** 0612012005
Note: foundation permit under #05-0344 **Ok to Issue:**

- 1) Separate permits shall be required for future decks, sheds, pools, and/or garages.
- 2) This permit is being approved on the basis of plans submitted. Any deviations shall require a separate approval before starting that work.

Dept: Building **Status:** Approved with Conditions **Reviewer:** Tammy Munson **Approval Date:** 0612212005
Note: **Ok to Issue:**

- 1) As discussed, hardwired interconnected battery backup smoke detectors shall be installed in all bedrooms, on every level, and in a common area.
- 2) Separate permits are required for any electrical, plumbing, or heating.
- 3) Application approval based upon information provided by applicant. Any deviation from approved plans requires separate review and approval prior to work.

ONE AND TWO FAMILY	PLAN REVIEW	CHECKLIST
Soil type/Presumptive Load Value (Table R401.4.1)	Component	Plan Reviewer
STRUCTURAL	Footings	Inspection/Date/Findings
Footing Dimensions/Depth (Table R403.1 & R403.1(1)), (Section R403.1 & R403.1.4.1)	OK - 4'-0" x 8" Frost wall w/ 2x10 Footing - Slab on grade	
Foundation Drainage Damp proofing (Section R405 & R406)	OK	
Ventilation/Access (Section R408.1 & R408.3) Crawls Space ONLY	N/A	
Anchor Bolts/Straps (Section R403.1.6)	OK - 1/2" x 6" - 4' OC	
Lally Column Type (Section R407)	N/A	
Girder & Header Spans (Table R 502.5(2))	N/A	
Built-Up Wood Center Girder Dimension/Type	N/A	
Sill/Band Joist Type & Dimensions	2x4 OT Sill - OK	
First Floor Joist Species	Slab	
Dimensions and Spacing (Table R502.3.1(1) & Table R502.3.1(2))	2x10's - 16" OC - OK	(5201)

structural

Header Schedule (Section R502.5(1) & (2))	OK / sheets	
Type of Heating System	not shown	OK
Means of Egress (Sec R311 & R312)		
Basement		
Number of Stairways		
Interior		
Exterior		
Treads and Risers (Section R311.5.3)	10 ⁺ 3/4" R	
Width (Section R311.5.1)	3'	OK
Headroom (Section E411.5.2)	6'-8"	OK
Guardrails and Handrails (Section R312 & R311.5.6 - R311.5.6.3)	OK	
Smoke Detectors (Section R313)	OK	
Location and type/Interconnected		
Dwelling Unit Separation (Section E417) and IBC - 2003 (Section 1207)	STC Rating -	Wind resistant channel
Deck Construction (Section R502.2.1)	OK	

see Chimney Survey at y CHECKLIST

12

10



Attic or additional Floor Joist Species Dimensions and Spacing (Table R802.4(1) and R802.4(2))	OK	
Pitch, Span, Spacing & Dimension (Table R802.5.1(1) - R 802.5.1(8))	OK	
Roof Rafter; Framing & Connections (Section R802.3 & R802.3.1)	OK	
Sheathing; Floor; Wall and roof (Table R503.2.1.1(1))	OK	Structural A401
Fastener Schedule (Table R607.3(1) & (2))	"	"
Private Garage (Section R309) Living Space? (Above or beside)	YES	
Fire separation (Section R309.2) Opening Protection (Section R309.1)	4/8" walls & chg - Garage	
Emergency Escape and Rescue Openings (Section R310)	OK - 1 hr door	
Roof Covering (Chapter 9)	Not labeled	OK
Safety Glazing (Section R308)	OK asphalt	
Attic Access (Section R807)	OK	22" x 30"
Chimney Clearances/Fire blocking (Chapter 10)	N/A	

SHARP HOMES INC.

120 Exchange Street • Portland, Maine 04101 • (207) 874-6959 • FAX (207) 874-6988

February 14, 2005

Hand Delivered

Jeanie Bourke
City of Portland
Code Officer
Portland, Me. 040101

Dear Jeanie,

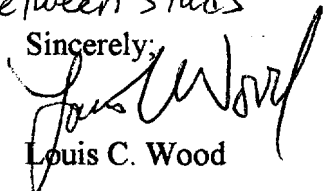
Please find enclosed a copy of the Jarita Condo's Building plans with the outlined changes you requested in your letter of Feb. 3, 2005:

- ✓1. Verification of sheet rock under stairs on first floor
- ✓2. Paradigm Window Manufacturer Verification of egress windows.
3. Have shown Attic scuttles (Typ)
- ✓4. Have shown minimum headroom in stairway.
- ✓5. Have shown 1hr. rated **beam** enclosure in garage.
- ✓6. Please find enclosed data on the common wall detail, double staggered studded wall with STC rating of **57** with use of Acousti/block product see enclosed information sheet.

11 mod
2/17/05

2x6 plates
7x4 studs staggered
3" insulation
Acousti/block
weaved between studs

Thank you for your time, please call me with any other question you **may** have.

Sincerely,

Louis C. Wood

DEPT. OF BUILDING INSPECTION
CITY OF PORTLAND, ME
FEB 15 2005
RECEIVED



APPLICATORS
SALES & SERVICE, INC.

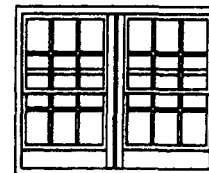
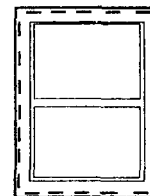
Versatec™



Window Solutions For Life

VERSATEC - A Standard New Construction Double Hung Win-

Suggested Single Unit					Double Unit			
Call Size	White	Grid layout	Rough Opening	UI	Call Size	White	Rough Opening	UI
DH3636	\$334	6/6	36 x 36	72	DH3636-2	\$746	71 1/2 x 36	108
DH3644	\$348	6/6	36 x 44	80	DH3644-2	\$772	71 1/2 x 44	116
DH3648	\$356	6/6	36 x 48	84	DH3648-2	\$790	71 1/2 x 48	120
DH3652	\$364	6/6	36 x 52	88	DH3652-2	\$806	71 1/2 x 52	124
DH3660	\$372	6/6	36 x 60	96	DH3660-2	\$818	71 1/2 x 60	132
DH3666**	\$396	6/6	36 x 66	102	DH3666-2	\$870	71 1/2 x 66	138
DH3672**	\$404	6/6	36 x 72	108	DH3672-2	\$888	71 1/2 x 72	144
DH4036	\$344	6/6	40 x 36	76	DH4036-2	\$764	79 1/2 x 36	116
DH4044	\$358	6/6	40 x 44	84	DH4044-2	\$796	79 1/2 x 44	124
DH4048	\$366	6/6	40 x 48	88	DH4048-2	\$810	79 1/2 x 48	128
DH4052	\$384	6/6	40 x 52	92	DH4052-2	\$840	79 1/2 x 52	132
DH4066**	\$406	6/6	40 x 66	106	DH4066-2	\$892	79 1/2 x 66	146
DH4072**	\$418	6/6	40 x 72	112	DH4072-2	\$914	79 1/2 x 72	152
DH4436	\$354	8/8	44 x 36	80	DH4436-2	\$786	87 1/2 x 36	124
DH4444	\$364	8/8	44 x 44	88	DH4444-2	\$806	87 1/2 x 44	132
DH4448	\$386	8/8	44 x 48	92	DH4448-2	\$846	87 1/2 x 48	136
DH4452	\$394	8/8	44 x 52	96	DH4452-2	\$862	87 1/2 x 52	140
DH4460**	\$406	8/8	44 x 60	104	DH4460-2	\$892	87 1/2 x 60	148
DH4466**	\$414	8/8	44 x 66	110	DH4466-2	\$904	87 1/2 x 66	154
DH4472**	\$426	8/8	44 x 72	116	DH4472-2	\$928	87 1/2 x 72	160
DH4836	\$364	8/8	48 x 36	84	DH4836-2	\$806	95 1/2 x 36	132
DH4844	\$388	8/8	48 x 44	92	DH4844-2	\$850	95 1/2 x 44	140
DH4848	\$390	8/8	48 x 48	96	DH4848-2	\$854	95 1/2 x 48	144
DH4852	\$404	8/8	48 x 52	100	DH4852-2	\$888	95 1/2 x 52	148
DH4860**	\$414	8/8	48 x 60	108	DH4860-2	\$904	95 1/2 x 60	156
DH4866**	\$434	8/8	48 x 66	114	DH4866-2	\$946	95 1/2 x 66	162
DH4872**	\$446	8/8	48 x 72	120	DH4872-2	\$970	95 1/2 x 72	168



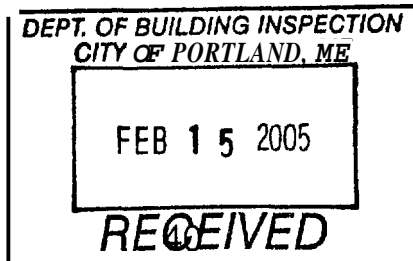
STANDARD FEATURES

- 3/4" Low-E² Insulated Glass With Swiggle Spacer
- 1/2" Stainless Steel Balance System With Jamb Liner
- Integral Nail Fin / 3/4" J - Channel Built In
- Interlock At Meeting Rail
- Triple Weather-stripping
- Fully Welded Sash & Frame
- Full Screen
- Will Accept Exterior Casing Options

** Denotes Egress Size Windows

- Tan Units Add 15% To Total White Price
- For Oriel Units Add 15% To Total Window Price
- For Custom Size Units Go To Next Larger Window Size Price
- Call Size Minus 1/2" Equals Unit Dimension
- Unit Price Does Not Include Grids
- Refer To Page 87 For All Options

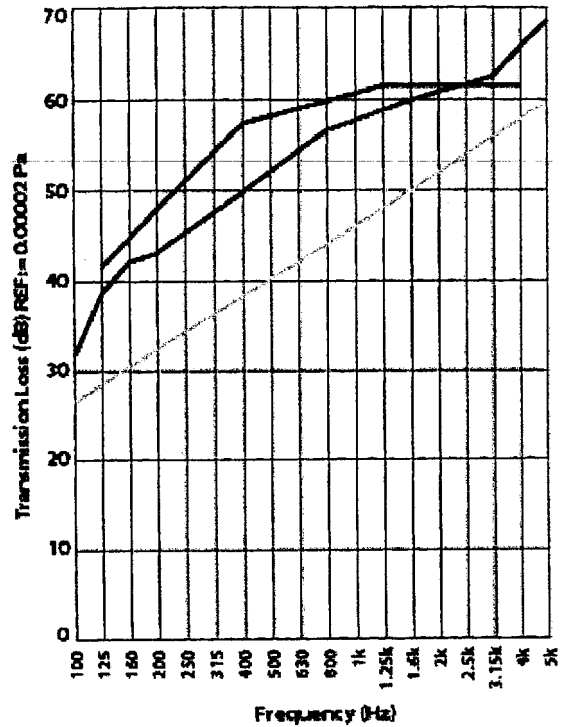
Effective Date
March, 2004



Prices subject to change
without notice



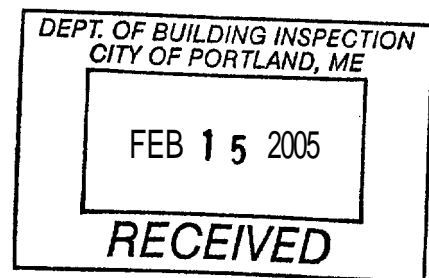
Sound Transmission Report
RAL - TL04-275



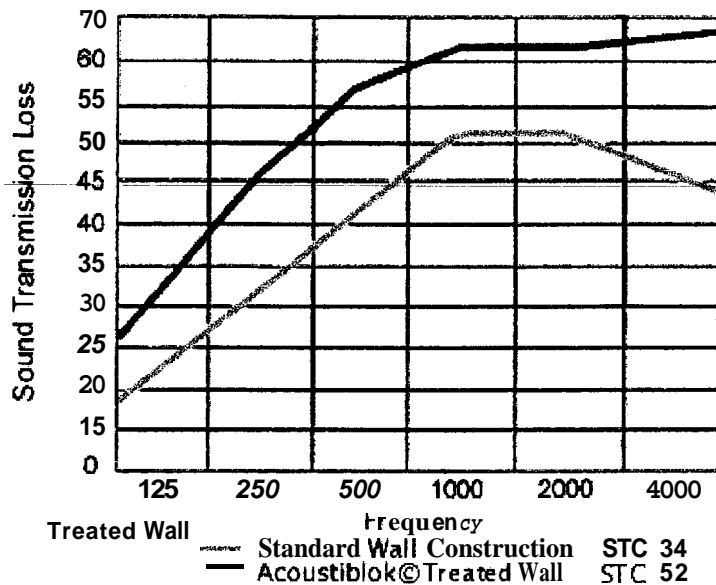
Extended Frequency Data

FREQ.	T.L.	UNC.
40	21	0.45
50	22	0.84
63	19	1.29
80	m	0.82

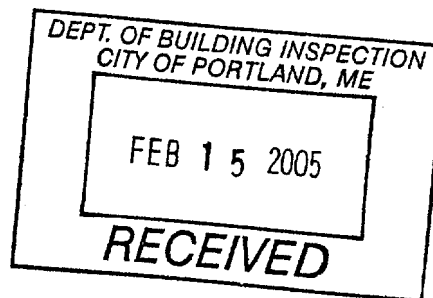
STC = 57
 — Transmission Loss
 - - - Sound Transmission
 . . . Mass Law



ACOUSTICAL DATA



STC 52 is a current certified lab test result by
Riverbank Laboratory on 03-04-04 (report available)





CLBV.R21490

Wall and Partition Facings and Accessories

[Page Bottom](#)
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Wall and Partition Facings and Accessories

[See General Information for Wall and Partition Facings and Accessories](#)

ACOUSTIBLOK INC
 6900 INTERBAY BLVD
 TAMPA, FL 33616 USA

R21490

Type Acoustiblok (1 lb.) membrane for use in wall designs of the U300, U400, and V400 series. Also may be used in floor-ceiling constructions of the L500 series.

Material shall be installed per the manufacturer's installation instructions furnished with the rolls of the membrane material.

[Last Updated](#) on 2003-12-01

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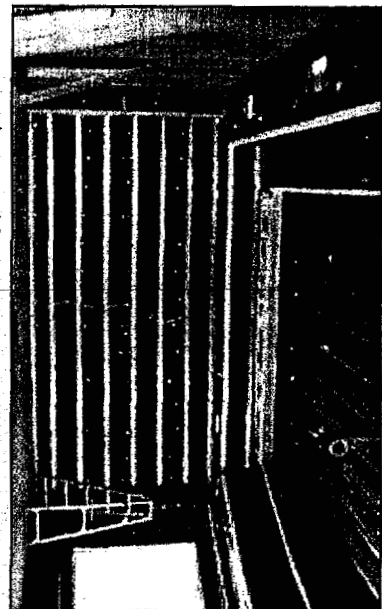
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Product Description

Acoustiblok is a 1 lb. psf, reinforced, noise isolating material which is utilized as a structural treatment for reducing sound transmission. It contains no lead or asbestos materials. Acoustiblok is typically applied as part of layered wall or floor construction either facked to the studs prior to drywall or draped over joists before sub-floor. Acoustiblok® reduces sound transmission even in low frequencies under 100Hz. Ceilings and doors are also suggested treatment areas to further reduce sound transmission (-10db to the human ear is approximately 50% reduction). Higher STC 2LB also available. (STC 32)

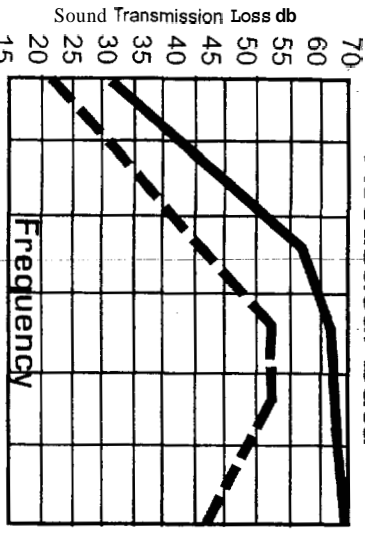


Acoustiblok® is essential to any home theater room. Keeps the movie in and the disturbances out. Have your architect spec it in.

Architectural Specifications - Acoustiblok®

A U.L.™ classified flexible high STC sound isolation material. U.L.™ approved for use in U.L.™ rated wall designs of U300, U400 and V400 series. Also for use in U.L.™ rated flooring designs of the L500 series. High electrical resistance. Weight is 1lb. per sq. ft. Properties: Non-corroding, waterproof, tensile PSI min 510, thickness of .114, .03 inches, minimum of 26 STC, no deformation at 200 degrees F, pass burn test per mil std. 1623, pass burn test MVS 302 and self extinguishing, DLE 'C' tear (#1N) tested, available in rolls of 54' x up to 350' U.K. Tested B.S.476-Part 7 Transmission loss of -19DB@100hz

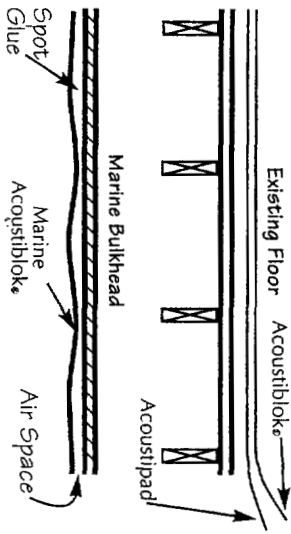
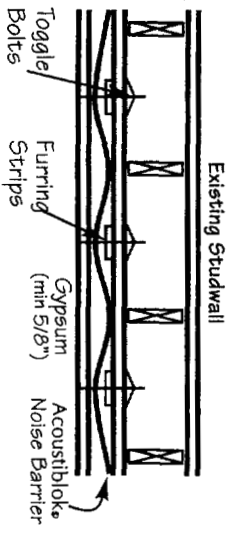
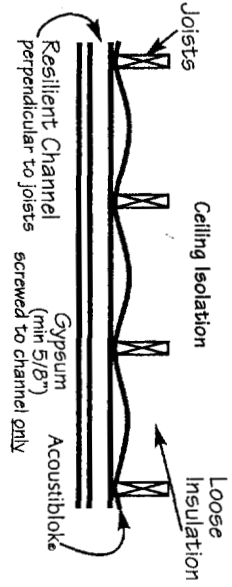
Acoustical Data



Standard Wall Construction STC 41
Acoustiblok Treated Wall STC 50

Applications

- Residential
 - Industrial
 - Condos
 - Apartments
 - Hotels
 - Home Theaters
 - Power Plants
 - Offices
 - Schools
 - Sports Facilities
 - Gymnasiums
 - Nurseries
 - Hospitals
 - Libraries
 - Churches
 - Doctor's Offices & Clinics
 - Airports
 - Attorney Offices
 - Kennels
 - Air Handler Rooms
 - Machinery Rooms
 - Strip Plazas
 - Noisy Plumbing Pipes
 - Restaurants
 - Automobiles
 - Marine
 - Factories
 - Gun Ranges
- (More on web site)



"Outdoor sound absorbing panels" also available, see web sight.)
www.Acoustiblok.com
Email: sales@acoustiblok.com • 813-980-1400
Acoustiblok® P.O. Box 291396 • Tampa, Florida 33687
In UK Email: info@acoustiblokuk.com

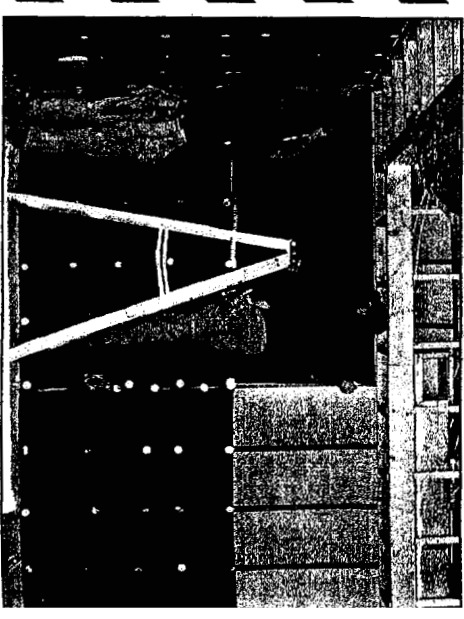
Acoustiblok

When What You Don't Hear Counts.

At best, an easy to use product to reduce sound transmission, UL approved to be in walls/floors/ceiling dramatically in our business and personal lives.

Home theater, traffic noise, kids rooms, engine noise private offices, school rooms, examination rooms, the needs are endless. We also do not want any restrictions in our listening enjoyment of home theater or music.

Today's construction techniques do not let themselves to noise reduction. The materials used (any) are fiberglass, foam insulation, sound board, extra layers of drywall. These do little to stop noise transmission. Even a concrete block wall is a poor barrier for sound. Solid ridged materials actually vibrate themselves producing sound on the other side. Acoustiblok, however, works like a sheet of lead. It has tremendous density and mass (1lb sq. ft.). It is installed loosely when possible, thus it absorbs the acoustic energy far better than rigid solid materials.



"A revolutionary sound proofing material is set to make a major impact on noise abatement issues after winning an innovation and technology award." Presented by the "Noise Abatement Society" at the British House of Commons 10/29/01

Installation Methods

Acoustiblok® comes in 54" rolls 30', 60', or 350' long and is easily cut with a box knife and a straight edge.

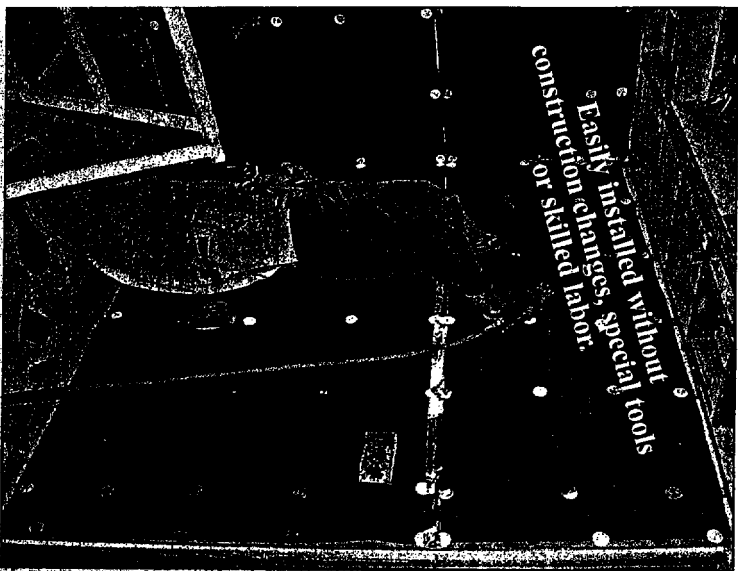
Stapling with a tin roof cap is an easy method to attach Acoustiblok® to studs, ceiling joists or furring strips.

For metal studs, use self tapping screws with tin roof caps. For floors, wood or concrete, spot gluing is adequate.

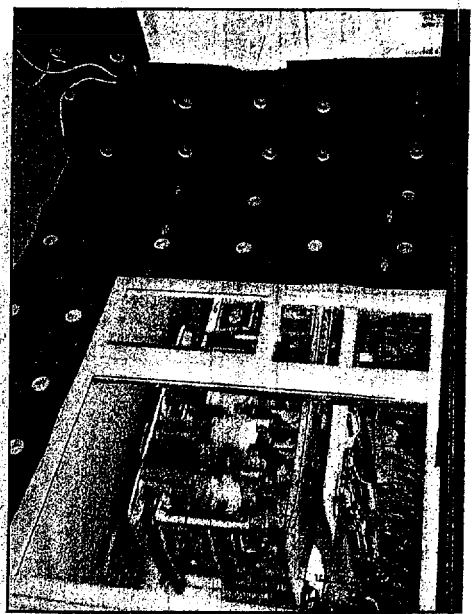
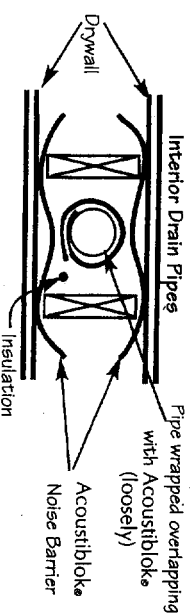
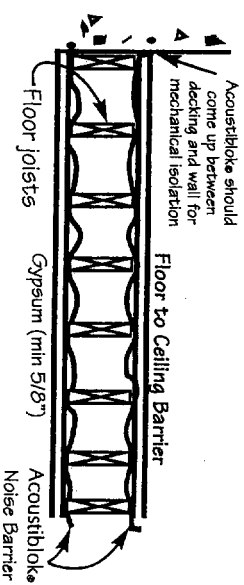
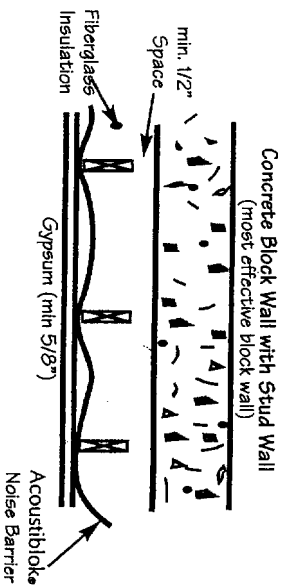
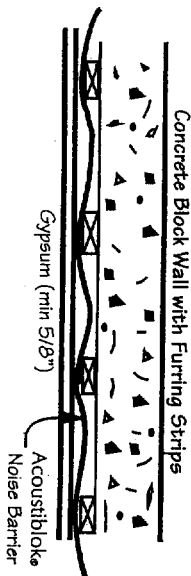
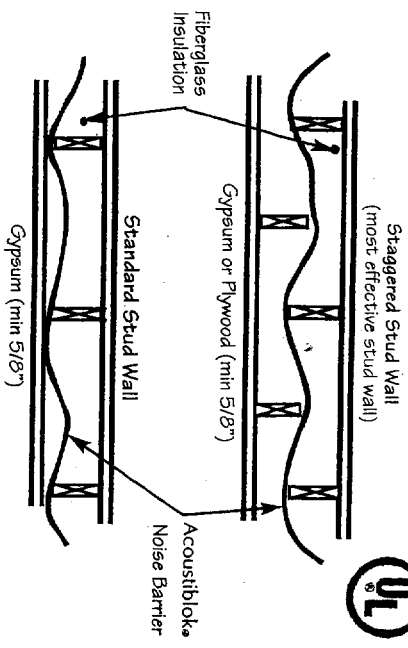
Tape and sealers are available for all joints.

The best sound barrier is one that absorbs the acoustic energy. Therefore, the best results are when the product is left somewhat loose i.e. stapled to studs before drywall is hung.

Acoustiblok® also helps in eliminating solid mechanical linkage, which is a major cause of sound transmission.



www.acoustiblok.com



Sound & Vibrations from trolley cars in San Francisco are blocked.

Acoustiblok® is a Very Unique Material

- » U.L. approved in walls/floors/ceilings.
- » Is impervious to water or moisture
- » Very flexible/Cuts with box knife
- » Can be nailed, stapled, or glued
- » Is non corrosive
- » Is temperature tested up to 200°
- » It will not mildew
- » Can be put in basements or in attics
- » Will not compress under carpet
- » Is highly UV Resistant



Acoustiblok® is also very effective in reducing industrial noise. (available in 2 LB density) (STC 52)

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TEST REPORT

FOR Acoustiblok
Tampa, FL

Sound Transmission Loss Test
RAL™-TL04-050

ON: WSAB-129 Wood Stud Wall Section

Page 1 of 3

CONDUCTED: 4 March 2004

TEST METHOD

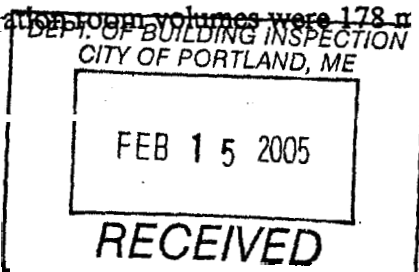
Unless otherwise designated, the measurements reported below were made with all facilities and procedures in explicit conformity with the ASTM Designations E90-02 and E413-87, as well as other pertinent standards. Riverbank Acoustical Laboratories has been accredited by the U.S. Department of Commerce, National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure. A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen was designated by the client as WSAB-129 wood stud wall section. The overall dimensions of the specimen as measured were 1.21 m (47.5 in.) wide by 2.43m (95.5 in.) high and 127 mm (5 in.) thick. The specimen was placed directly in the laboratory's 1.22 m (4 ft) by 2.44m (8 ft) test opening and was sealed on the periphery (both sides) with a dense mastic.

The manufacturer's description as provided by a drawing was as follows: The panel was constructed with a two-by-four wood top and bottom plate and studs covered on both sides with a single layer of 16 mm (0.625 in.) thick gypsum board. The gypsum board was attached using 6d nails at 305 mm (12 in.) on center. The wood studs were spaced on nominal 610 mm (24 in.) centers. The receive side cavity was filled with 76 mm (3 in.) thick fiberglass. A single layer of Acoustiblok 16 oz. barrier material was attached to the studs on the source side. A visual inspection verified the manufacturer's description of the specimen.

The weight of the specimen as measured was 97.3kg (214.5 lbs), an average of 33.3 kg/m² (6.8 lbs/ft²). The transmission area used in the calculations was 2.9 m² (31.5 ft²). The source and receiving room temperatures at the time of the test were 23±1°C (74±1°F) and 63% relative humidity. The source and receive reverberation room volumes were 178 m³ (6298 ft³) and 134 m³ (4748 ft³), respectively.



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TEST REPORT

Acoustiblok

RAL™-TL04-050

4 March 2004

Page 2 of 3

TEST RESULTS

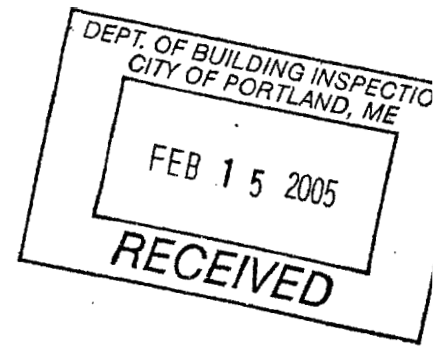
Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data is within the *limits* set by the ASTM Standard E90-02.

<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	27	1.01		800	53	0.17	1
125	32	0.95	4	1000	55	0.18	
160	37	0.49	2	1250	56	0.16	
200	41	0.09		1600	57	0.13	
250	42	0.49	3	2000	57	0.09	
315	41	0.45	7	2500	58	0.09	
400	45	0.31	6	3150	60	0.07	
500	48	0.21	4	4000	62	0.07	
630	51	0.22	2	5000	63	0.04	

STC=52

ABBREVIATION INDEX

- FREQ. = FREQUENCY, HERTZ, (cps)
- T.L. = TRANSMISSION LOSS, dB
- C.L. = UNCERTAINTY IN dB, FOR A 95% CONFIDENCE LIMIT
- DEF. = DEFICIENCIES, dB < STC CONTOUR (SUM OF DEF = 30)
- STC = SOUND TRANSMISSION CLASS



Tested by Marc Sciaky
Marc Sciaky

Approved by David I. Mover
David I. Mover
Laboratory Manager

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630/232-0104

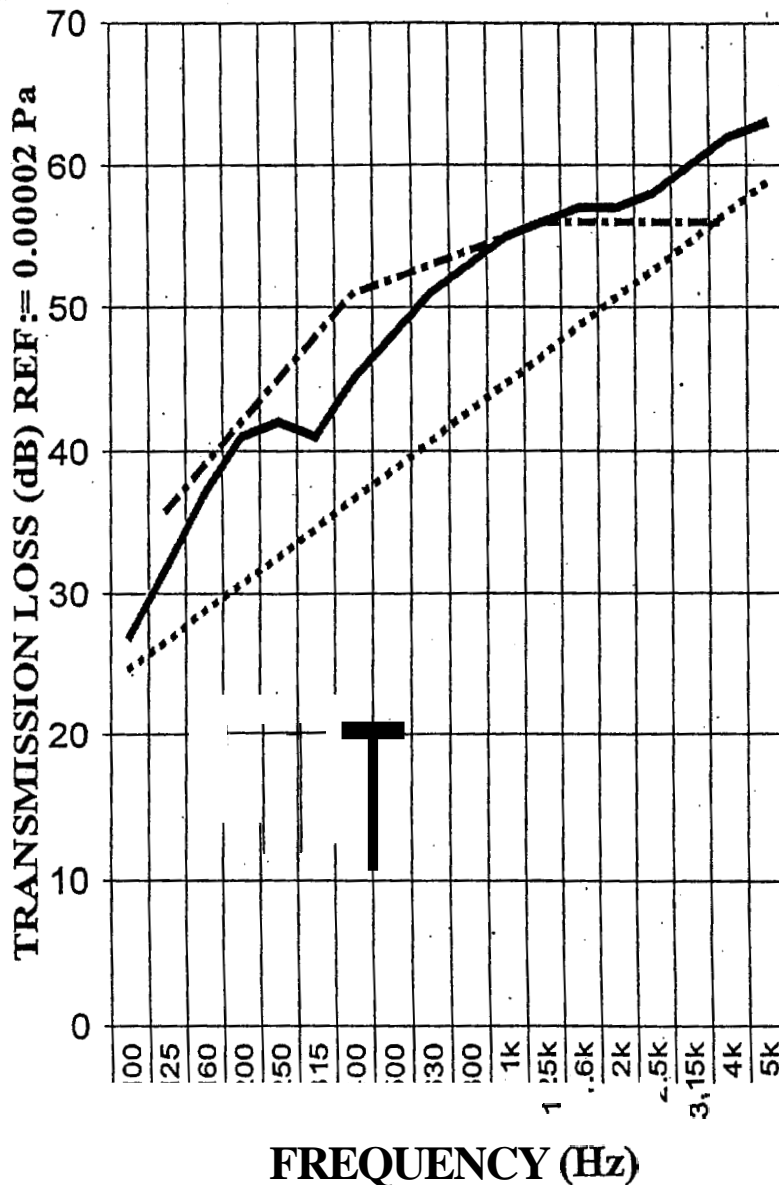
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TEST REPORT

SOUND TRANSMISSION REPORT

RAL - TL04-050

PAGE 3 OF 3



FREQUENCY (Hz)

STC = 52

TRANSMISSION LOSS,

SOUND TRANSMISSION LOSS CONTOUR

MASS LAW

DEPT. OF BUILDING INSPE
CITY OF PORTLAND, IN

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TEST REPORT

FOR: Acoustiblok

Sound Transmission Loss Test

ON: Acoustiblok 16

RAL™-TLO3-085

Page 1 of 3

CONDUCTED: 14 March 2003

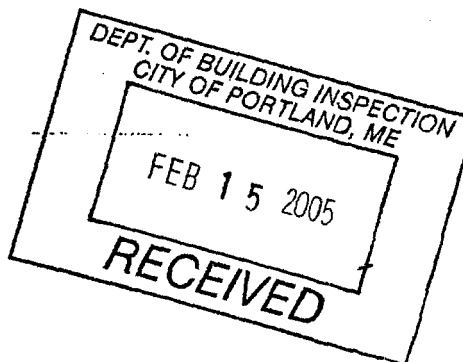
TEST METHOD

Unless **otherwise** designated, the measurements **reported** below were **made** with **all** facilities and procedures in explicit conformity with the ASTM Designations E90-02 and E413-87, as well as other pertinent **standards**. Riverbank **Acoustical** Laboratories has been accredited by the U.S. Department of Commerce, National **Institute** of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP) for this test procedure. A description of the measuring technique is available separately.

DESCRIPTION OF THE SPECIMEN

The test specimen **was** designated by the manufacturer as **Acoustiblok 16**. The overall dimensions of the specimen **as** measured were 1.22 m (48 in.) wide by 2.44 m (96 in.) high and 2.54 mm (0.1 in.) thick. The Specimen was a 16 oz. per square foot vinyl barrier. The specimen **was** placed directly in the laboratory's 1.22 m (4 ft) by 2.44 m (8 ft) test opening and was sealed on the periphery (both sides) with a dense mastic.

The weight of the specimen as measured was 13.6 kg (30 lbs.), an average of 4.4 kg/m² (0.9 lbs/ft²). The transmission area used in the calculations was 3 m² (32 ft²). The source and receiving room temperatures at the time of the test were 24±1°C (75±2°F) and 59±1% relative humidity. The source and receive reverberation room volumes were 178 m³ (6,298 ft³) and 139 m³ (4,912 ft³), respectively.



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NVLAP

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TEST REPORT

Acoustiblok

RAI™-TL03-085

14 March 2003

Page 2 of 3

TEST RESULTS

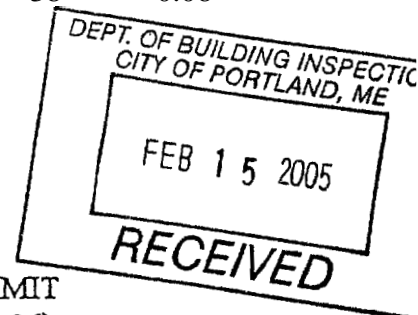
Sound transmission loss values are tabulated at the eighteen standard frequencies. A graphic presentation of the data and additional information appear on the following pages. The precision of the TL test data is within the limits set by the ASTM Standard E90-02.

<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>	<u>FREQ.</u>	<u>T.L.</u>	<u>C.L.</u>	<u>DEF.</u>
100	19	0.95		800	25	0.14	3
125	12	0.99		1000	26	0.18	3
160	14	0.59		1250	28	0.16	2
200	16	0.41		1600	30	0.15	
250	17	0.32	2	2000	31	0.08	
315	19	0.32	3	2500	33	0.14	
400	20	0.22	5	3150	34	0.09	
500	22	0.22	4	4000	36	0.10	
630	23	0.20	4	5000	38	0.08	

STC=26

ABBREVIATION INDEX

- FREQ. = FREQUENCY, HERTZ, (cps)
- T.L. = TRANSMISSION LOSS, dB
- C.L. = UNCERTAINTY IN dB FOR A 95% CONFIDENCE LIMIT
- DEF. = DEFICIENCIES, dB < STC CONTOUR (SUM OF DEF = 26)
- STC = SOUND TRANSMISSION CLASS



Tested by Dean Victor

Approved by David L. Moyer

Senior Experimentalist

Laboratory Manager

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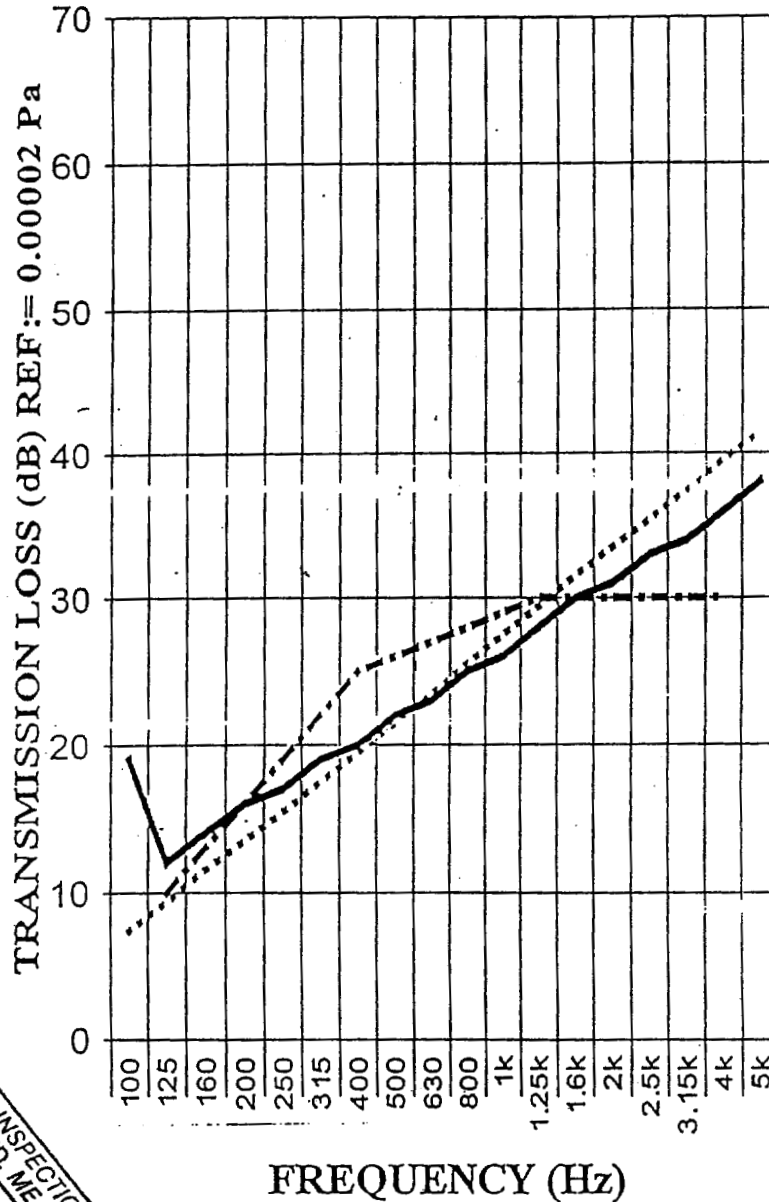
630/232

WALLACE, CLEMENT &
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TEST REPORT

SOUND TRANSMISSION REPORT
RAL - TL03-085

PAGE 3 OF 3



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CITY OF PORTLAND, ME.
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FREQUENCY (Hz)

STC = 26

TRANSMISSION LOSS

SOUND TRANSMISSION LOSS CONTOUR

MASS LAW

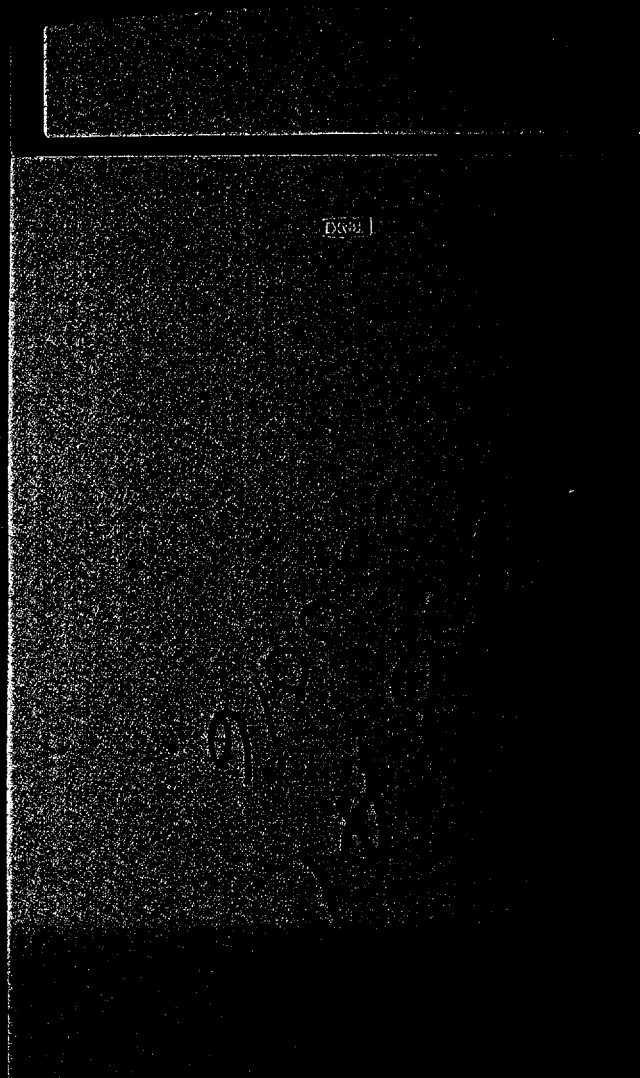
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NVLAP

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Gas-fired wall hung boilers

Luna



BAXI

LUNA

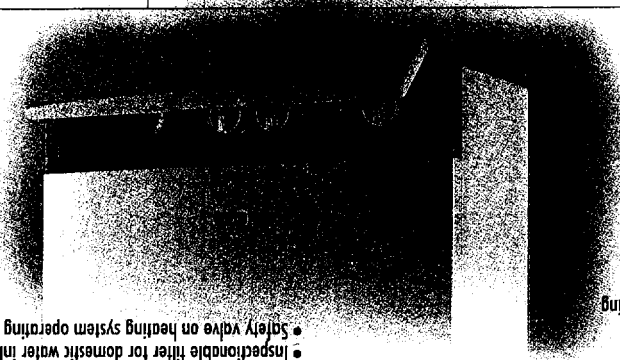
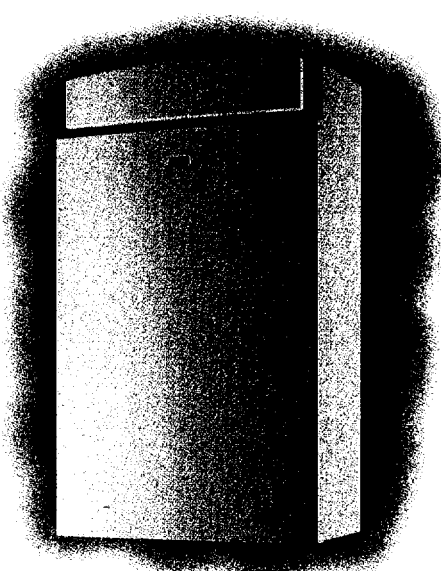
Gas-fired wall hung boilers

FEATURES

- Electronic flame modulation
- Electronic ignition
- COMFORT position
- Temperature control by NTC probes (310F)
- Stainless steel DHW heat exchanger (310F)
- Stainless steel burner
- Circulating-pump with built-in air vent
- Gas valve with continuous modulation on heating and DHW systems
- Gas pressure governor
- Automatic by-pass
- Radio interference filtering system
- Pump overrun
- Anti-frost device
- Outdoor probe option

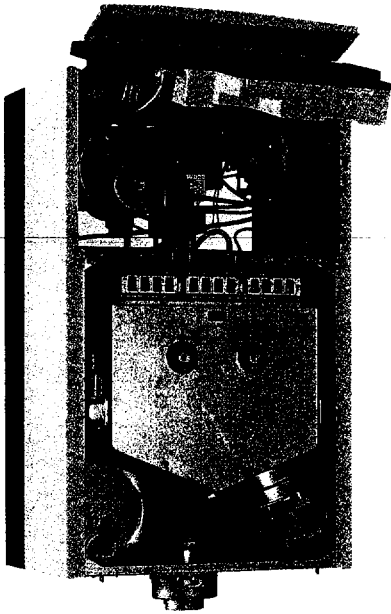
SAFETY DEVICES

- Electronic temperatures control by NTC probes
- Self check automatic control system
- Overheat limit thermostat
- Gas control electronic panel
- Differential pressure switch to ensure safe discharge of flue products (1,310F, 310F)
- Differential pressure switch to prevent boiler operating in the event of low water or blocked pump
- System to prevent pump sticking operating every 24 hours
- Inspectable filter for domestic water inlet
- Safety valve on heating system operating at 43 psi

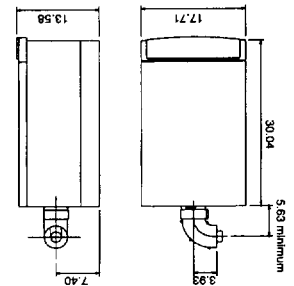


TECHNICAL DATA

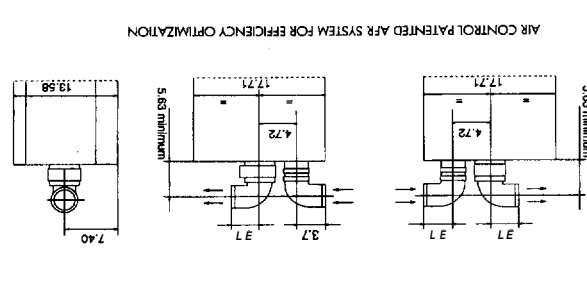
HEATING ONLY	CHW PRODUCTION	
126249	126249	Rated heat input Btu/h
105776	105776	Rated heat output Btu/h
•	•	Sealed combustion chamber
•	•	Anti-frost device on heating circuit
2.2	2.2	Expansion vessel gal
86/113	86/113	Minimum capacity domestic hot water flow rate gal/min
-	0.55	Maximum pressure on DHW system psi
17.71	17.71	Width m
2.36-3.93/3.14	2.36-3.93/3.14	Coaxial/dual flue tube Ø in
natural/LPG	natural/LPG	Gas type
60	60	Frequency Hz



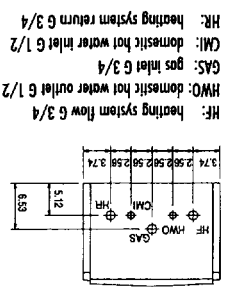
• COAXIAL FLUE SYSTEM



• DUAL FLUE SYSTEM



AIR CONTROL PATENTED AFR SYSTEM FOR EFFICIENCY OPTIMIZATION



HF: heating system flow G 3/4
 HMO: domestic hot water outlet G 1/2
 GAS: gas inlet G 3/4
 CMH: domestic hot water inlet G 1/2
 HR: heating system return G 3/4

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