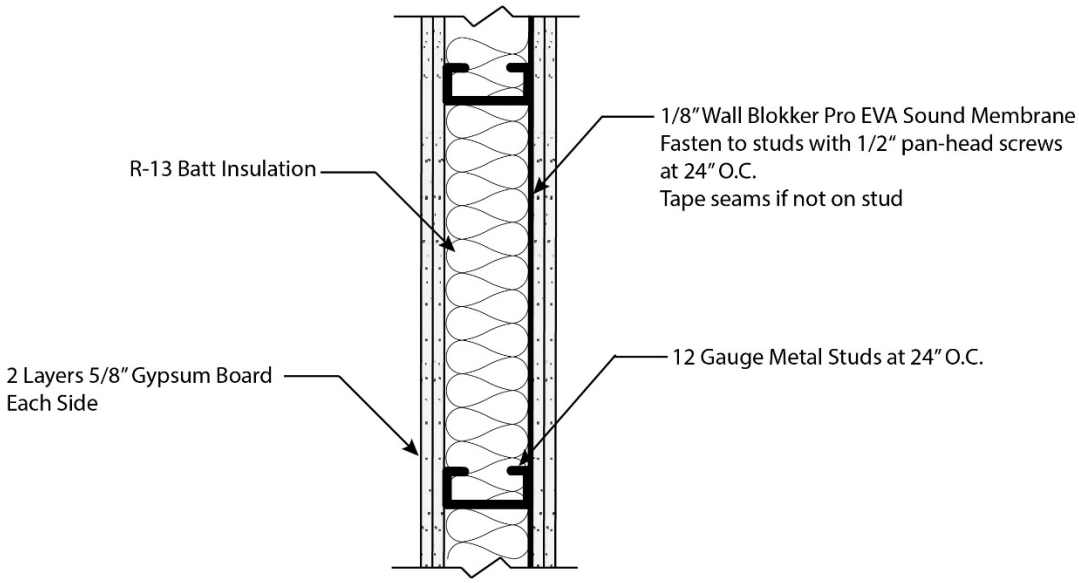
Partition Type CA 14



Partition	Stud Size	Fire Rating	UL	STC Rating	STC Test	Partition Thickness
CA 14-1	3-5/8"	2 hr	UL U419	STC 57	H0512.01-113-11-R0	5"

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COMMERCIAL ACOUSTICS
ACOUSTICAL PERFORMANCE TEST REPORT

SCOPE OF WORK
ASTM E90 SOUND TRANSMISSION LOSS TESTING ON A BASE WALL WITH WALL BLOKKER PRO, ACOUSTICAL SOUND BARRIER AND ISOLATOR

REPORT NUMBER
H0512.01-113-11-R0

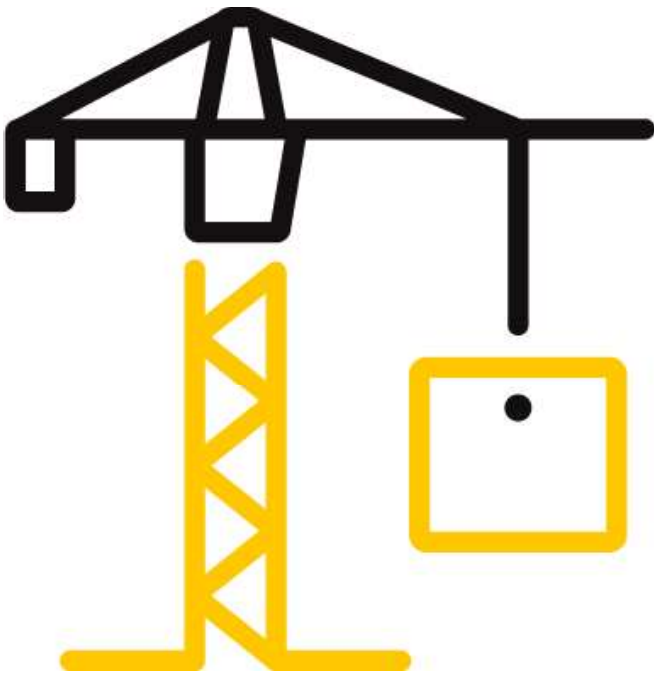
TEST DATE
08/25/17

ISSUE DATE
08/31/17

RECORD RETENTION END DATE
08/25/21

PAGES
12

DOCUMENT CONTROL NUMBER
ATI 00286 (07/24/17)
RT-R-AMER-Test-2758



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TEST REPORT FOR COMMERCIAL ACOUSTICS

Report No.: H0512.01-113-11-R0
Date: 08/31/17

REPORT ISSUED TO

COMMERCIAL ACOUSTICS
1519 West Cypress Street
Tampa, Florida 33606

SECTION 1

SCOPE

Intertek Building & Construction (B&C) was contracted by Commercial Acoustics to conduct a sound transmission loss test. Results obtained are tested values and were secured by using the designated test method(s). The complete test data is included herein. The client provided the test specimen. All measurements were conducted in the HT test chambers at Intertek B&C located in York, Pennsylvania.

This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.

SECTION 2

SUMMARY OF TEST RESULTS

SERIES/MODEL	Wall Blokker Pro
TYPE	Base Wall with Acoustical Wall Barrier and Isolator
BASE WALL	12 Gauge 6" Steel Stud 24" OC, Mineral Wool Insulation, Two Layers 5/8" Type X Gypsum Both Sides
DATA FILE NO.	H5012.01A
STC	57
OITC	40

For INTERTEK B&C:

COMPLETED BY:	Sean G. Close	**REVIEWED BY:**	Kurt A. Golden
TITLE:	Technician I Acoustical Testing	**TITLE:**	Project Lead Acoustical Testing
SIGNATURE:	 Digitally Signed by: Sean Close	**SIGNATURE:**	 Digitally Signed by: Kurt A. Golden
DATE:	08/31/17	**DATE:**	08/31/17

SGC:jmcs

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SECTION 3
TEST METHODS

The specimens were evaluated in accordance with the following with the exceptions stated in the Test Procedure section of this report:

ASTM E90-09 (2016), *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements*

ASTM E413-16, *Classification for Rating Sound Insulation*

ASTM E1332-16, *Standard Classification for Rating Outdoor-Indoor Sound Attenuation*

ASTM E2235-04 (2012), *Standard Test Method for Determination of Decay Rates for Use in Sound Insulation Test Methods*

SECTION 4
SPECIMEN INSTALLATION

The specimen was constructed in the laboratory. A sound transmission loss test was initially performed on a filler wall. The 96" wide by 96" high specimen plug was removed from the filler wall assembly. The specimen was placed on an isolation pad in the test opening. Duct seal was used to seal the perimeter of the specimen to the test opening on both sides. The interior side of the specimen, when installed, was approximately 1/4" from being flush with the receive room side of the filler wall. A stethoscope was used to check for any abnormal air leaks around the test specimen prior to testing.

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SECTION 5
EQUIPMENT

The equipment listed below meets the requirements of the test methods stated in Section 3 of this report.

INSTRUMENT	MANUFACTURER	MODEL	DESCRIPTION	ASSET #	CAL DATE
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	1643A62	04/16 *
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	65126	05/16 *
Data Acquisition Card	National Instruments	PXI-4462	Data Acquisition Card	065125	05/16 *
Source Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64902	08/17
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64903	02/17
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	65103	02/17
Source Room Microphone	PCB Piezotronics	378C20	Microphone and Preamplifier	64905	02/17
Source Room Microphone	PCB piezotronics	378C20	Microphone and Preamplifier	64906	02/17
Receive Room Microphone	PBC Piezotronics	378B20	Microphone and Preamplifier	64907	01/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64908	01/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64909	01/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64910	01/17
Receive Room Microphone	PCB Piezotronics	378B20	Microphone and Preamplifier	64911	01/17
Receive Room Environmental Indicator	Comet	T7510	Receive Room	64915	03/17
Source Room Environmental Indicator	Comet	T7510	Source Room	64914	03/17
Microphone Calibrator	Norsonic	1251	Pistonphone Calibrator	Y002919	04/17

**- Note: The calibration frequency for this equipment is every two years per the manufacturer's recommendation.*

TEST CHAMBER

	VOLUME	DESCRIPTION
RECEIVE ROOM	234 m^3	Rotating vane and stationary diffusers Temperature and humidity controlled Isolation pads under the floor
SOURCE ROOM	207 m^3	Stationary diffusers only Temperature and humidity controlled

	MAXIMUM SIZE	DESCRIPTION
TL TEST OPENING	4.27 m wide by 3.05 m high	Vibration break between source and receive rooms

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TEST REPORT FOR COMMERCIAL ACOUSTICS
Report No.: H0512.01-113-11-R0
Date: 08/31/17

SECTION 6
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Mike Rushton	Commercial Acoustics
Sean G. Close	Intertek B&C
Kurt A. Golden	Intertek B&C

SECTION 7
TEST PROCEDURE

The sensitivity of the microphones was checked before measurements were conducted.

The transmission loss values were obtained for a single direction of measurement.

Two background noise sound pressure level and five sound absorption measurements were conducted at each of five microphone positions.

Two sound pressure level measurements were made simultaneously in the receive and source rooms at each of five microphone positions.

The air temperature and relative humidity conditions were monitored and recorded during all measurements.

Data for flanking limit tests, repeatability measurements, and reference specimen tests are available upon request.

Intertek B&C will store samples of test specimens for four years.

SECTION 8
ACOUSTICAL TEST CALCULATIONS

Transmission loss (TL) at each 1/3 octave frequency is the average source room sound pressure level minus the average receive room sound pressure level, plus, 10 times the log of the specimen area divided by the sound absorption of the receive room with the sample in place.

STC Rating
To obtain the Sound Transmission Class (STC), read the TL of the contour curve at 500 Hz. The sum of the deficiencies below the contour curve must not exceed 32. The maximum deficiency at any one frequency must not exceed 8.

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OITC Rating

The Outdoor-Indoor Transmission Class (OITC) is calculated by subtracting the logarithmic summation of the TL values from the logarithmic summation of the A-weighted transportation noise spectrum stated in ASTM E1332.

SECTION 9
SPECIMEN DESCRIPTION

GYPSUM BOARD	Two Layers, 5/8" Type X
STUDS	12 Gauge, 6" Steel, 24" Centers
INSULATION	Mineral Wool
GYPSUM BOARD	Two Layers, 5/8" Type X

MATERIAL	ACTUAL DIMENSIONS (inches)	ACTUAL THICKNESS (inches)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
GYPSUM BOARD	48 by 96	0.625	National Gypsum Type X	2 sheets	2.28 lbs/ft^2
	Note: Screws spaced on 24" centers. Perimeter and joints, sealed with acoustical sealant and foil tape. Screw heads sealed with foil tape.				
GYPSUM BOARD	48 by 96	0.625	National Gypsum Type X	2 sheets	2.28 lbs/ft^2
	Note: Screws spaced on 24" centers. Perimeter, joints, and screw heads sealed with acoustical sealant.				
BARRIER SOUND	48 by 96	0.170	Wall Blokker PRO	2 sheets	0.96 lbs/ft^2
	Note: Fastened with the polyethylene scrim facing the gypsum.				
STUD	6 by 96	1-3/4"	Steel, 12 Gauge (0.103")	5 pieces	3.14 lbs/linear ft
	Note: 24" centers. Screwed to top and bottom plates.				
INSULATION	24 by 48	3"	Roxul Safe'n'Sound	8 batts	0.575 lbs/ft^2
	Note: N/A				
INSULATION	24 by 48	3"	Roxul Safe'n'Sound	8 batts	0.575 lbs/ft^2
	Note: N/A				
GYPSUM BOARD	48 by 96	0.625	National Gypsum Type X	2 sheets	2.28 lbs/ft^2
	Note: Screws spaced on 24" centers. Perimeter, joints, and screw heads sealed with acoustical sealant.				

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Report No.: H0512.01-113-11-R0
Date: 08/31/17

MATERIAL	ACTUAL DIMENSIONS (inches)	ACTUAL THICKNESS (inches)	MANUFACTURER AND SERIES	QUANTITY	AVERAGE WEIGHT
GYPSUM BOARD	48 by 96	0.625	National Gypsum Type X	2 sheets	2.28 lbs/ft^2
	Note: Screws spaced on 24" centers. Perimeter and joints, sealed with acoustical sealant and foil tape. Screw heads sealed with foil tape.				
	Note: N/A				
TOP PLATES	6 by 96	1-3/4"	Steel, 12 Gauge (0.103")	1 pieces	2.78 lbs/linear ft
	Note: N/A				
BOTTOM PLATES	6 by 96	1-3/4	Steel, 12 Gauge (0.103")	1 pieces	2.78 lbs/linear ft
	Note: N/A				

TOTAL WEIGHT (lbs)	**AVERAGE WEIGHT** (lbs / ft^2)
892.3	13.94

** - Stated per Client/Manufacturer, N/A-Not Applicable*

The client did not supply a report drawing of the test specimen.

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Report No.: H0512.01-113-11-R0
Date: 08/31/17

SECTION 10
TEST RESULTS

SPECIMEN AREA	5.95 m²	**RECEIVE TEMP.**	21.6 °C	**SOURCE TEMP**	21.7 °C
TECHNICIAN	Sean G. Clos	**RECEIVE HUMIDITY**	48%	**SOURCE HUMIDIT**	50%

FREQ (Hz)	BACKGROUND SPL (dB)	ABSORPTION (m²)	SOURCE SPL (dB)	RECEIVE SPL (dB)	SPECIMEN TL (dB)	95% CONFIDENCE LIMIT	NUMBER OF DEFICIENCIES
80	38.7	4.6	107	88	21	2.05	-
100	36.8	4.8	107	74	35	1.85	-
125	38.3	4.9	107	65	43	1.77	0
160	37.7	4.5	107	63	45	0.78	0
200	33.8	4.7	108	62	48	0.74	0
250	31.1	5.2	108	58	52	0.68	0
315	27.4	5.6	101	52	50	0.28	3
400	24.2	5.8	99	47	53	0.46	3
500	18.7	5.9	99	45	55	0.32	2
630	19.5	5.8	103	47	56	0.32	2
800	15.1	6.0	102	43	59	0.37	0
1000	11.1	6.2	99	37	62	0.39	0
1250	10.2	6.7	100	36	63	0.40	0
1600	7.6	7.2	104	41	62	0.35	0
2000	6.2	7.6	97	41	55	0.30	6
2500	6.3	8.5	96	41	54	0.25	7
3150	6.6	10.1	98	38	58	0.31	3
4000	7.5	12.5	97	32	62	0.35	0
5000	8.2	16.6	96	27	65	0.31	-

STC RATING	57	*(Sound Transmission Class)*
DEFICIENCIES	26	*(Sum of Deficiencies)*
OITC RATING	40	*(Outdoor-Indoor Transmission Class)*

Notes:
1) Receive Room levels less than 5 dB above the Background levels are red.
2) Specimen TL levels listed in red indicate the lower limit of the transmission loss.
3) Specimen TL levels listed in green indicate that there has been a filler wall correction applied

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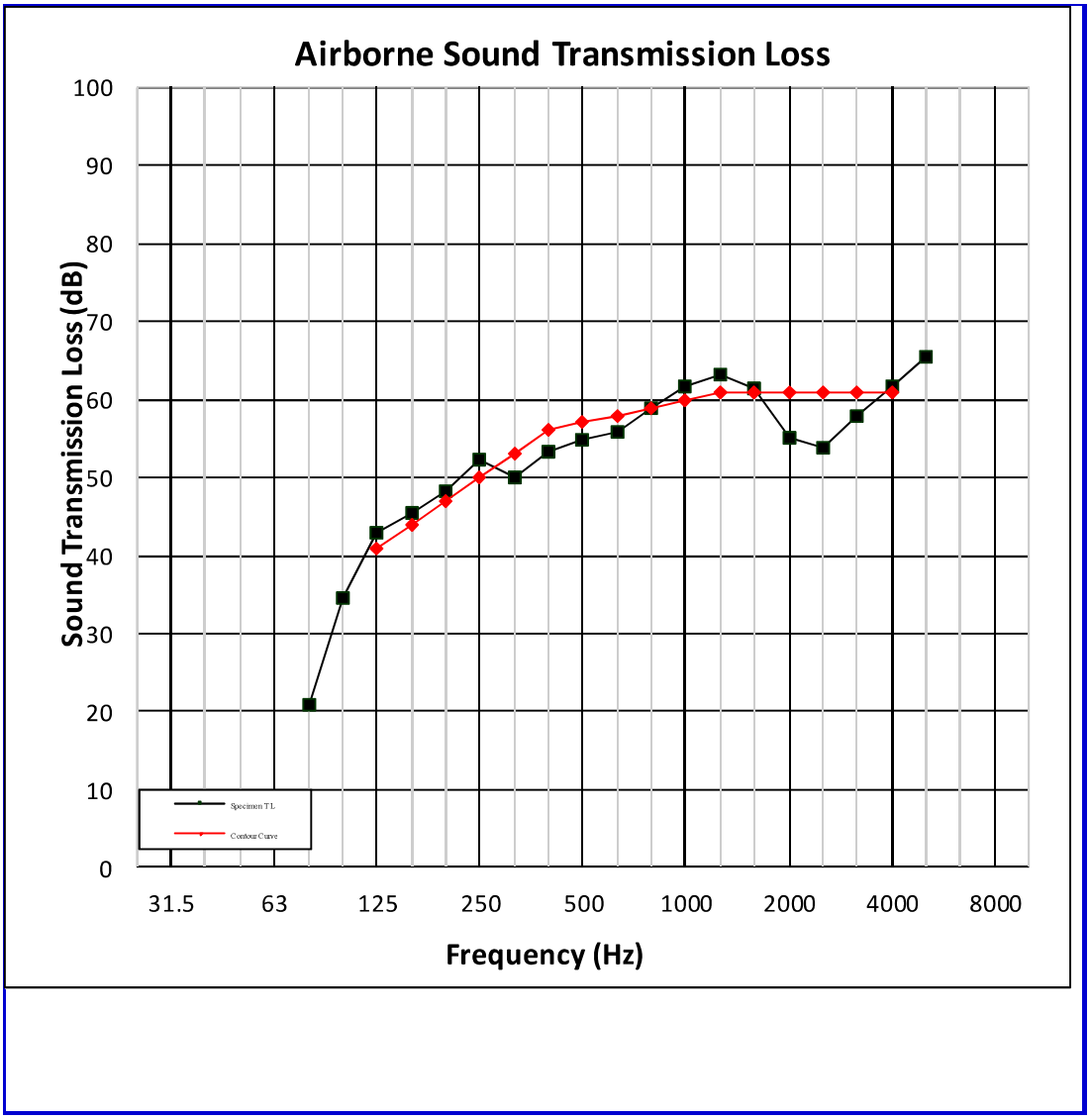
SECTION 11
RESULTS GRAPH



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SECTION 12
PHOTOGRAPHS

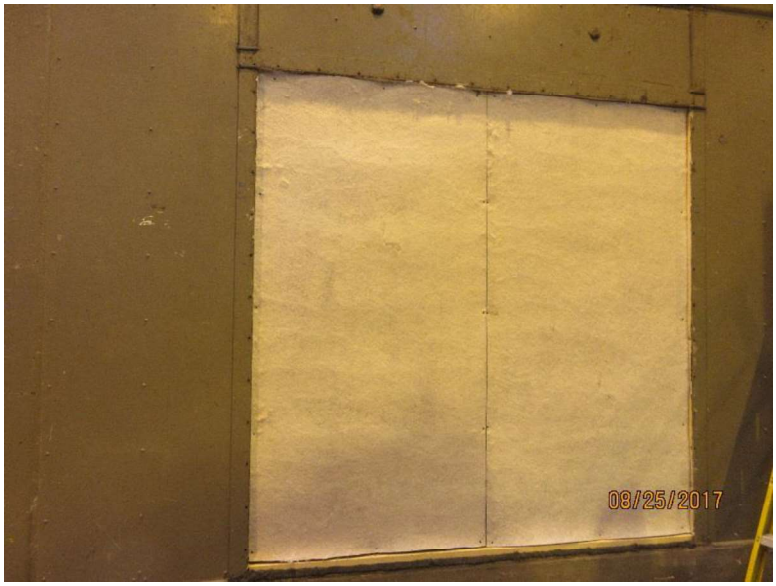

Photo No. 1
View of Installed Wall Blokker Pro

Photo No. 2
Receive Room View of Installed Specimen

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Photo No. 3
Source Room View of Installed Specimen

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SECTION 13
REVISION LOG

REVISION #	DATE	PAGES	REVISION
0	08/31/17	N/A	Original Report Issue

Technical Data

Wall Blokker PRO™

Acoustical Sound Barrier and Isolator

World's First Soundproofing Membrane designed specifically to increase sound attenuation across walls – Hit Higher STCs at a fraction of the Cost

Commercial Acoustics Wall Blokker PRO is a specially engineered and unique sound reduction material that combines a flexible mass loaded barrier and a soft, fibrous isolation layer to mitigate sound over a wide frequency range. Designed to be used anywhere superior noise reduction is required, Wall Blokker PRO can be installed behind a finished wall during new construction or can be placed between an existing wall and an additional drywall layer. The flexibility of Wall Blokker PRO also makes it extremely effective when used to cover pipe and duct chases to reduce mechanical noises.

Product Specifications:

- Manufactured with pre & post industrial & consumer materials.
- Mass-Loaded EVA (Ethylene Vinyl Acetate) for STC improvement
- PE (Polyethylene) Scrim for IIC and Structure-Borne improvement
- Product dimensions: 4' by 8' sheet & 4'x25' rolls.
- Product Weight: 1.0 lb/ft^2 composite nominal @ 3/16" nominal thickness.
- Standard Tolerances: Length & Width: + 0.5"/ - 0.0".

Product Benefits:

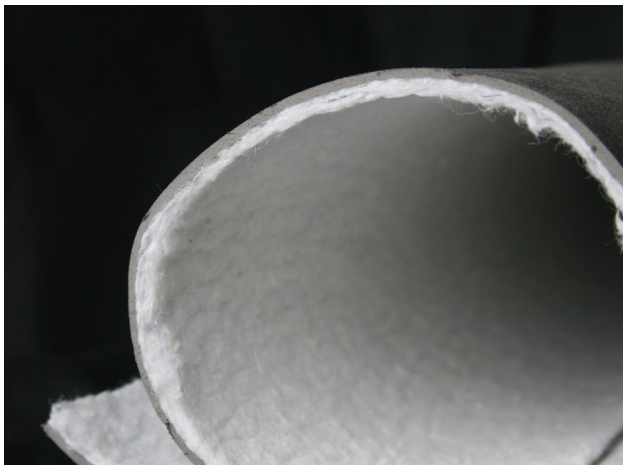
- Designed specifically to attenuate sound
- Flexible & easy to install
- Thin, approximately 1/8" thick – Saves space over traditional options such as Resilient Channel & Drywall
- Dampens sound and reduces noise by up to 75%
- 3-in-1 barrier (sound, moisture and air)
- Mold and Mildew resistant
- Non-PVC (no ozone depleting gasses)
- High STC performance in single and multiple layer applications
- Sustainable: 100% fully recyclable at end of life
- 100% Made in the USA
- Made from recycled, highly engineered acoustical grade polymer.
- Polyester manufactured from recycled bottle content.

Tested and approved for use in all wall designs of the U300, U400, and V400 series.

COMMERCIAL ACOUSTICS
6122 Benjamin Rd. · Tampa, Florida 33634 · 888-815-9691
www.Commercial-Acoustics.com · info@commercial-acoustics.com

Lab Test Performance:

- Flammability rating meets ASTM E 119; fire rated loaded wall assembly.
- Thermal Resistance minimum of 3 per ASTM C 518-5.
- Product-Only Minimum STC 27 per ASTM E 90-02 or SAE J1400. STC per assembly rating on request.
- Lab and Field Tests available on dozens of configurations, including Wood and Metal Stud Walls, Single or Staggered Stud, and Various Drywall Configurations
- No fungal or algae growth and no visible disfigurement per ASTM D3273 and ASTM G 21.



Installation:

1. Ensure surface is clean and dry
2. Wall Blokker PRO attached to wood studs with staples or screws, and metal studs with screws
3. Roll the Wall Blokker PRO to the proper length of the wall, measured vertically
4. Start at the top of the wall, securing the Wall Blokker PRO to the header stud with 4-5 staples
5. Roll the membrane downward, so that each edge is directly in the middle of the adjacent stud
6. Secure the membrane to the studs at 12 inches, nominally
7. Taping of the edges is optional
    a. Mandatory if the edge does not fall on the stud
8. Use standard drywall screws when fastening drywall board to the studs through the membrane. Wall Blokker PRO is an EVA polymer that will tighten around the screws like a gasket
9. If holes/tears should take place, simply place vinyl tape over the gap
10. At bottom and top of the wall, ensure that gaps are less than or equal to ¼". Fill in gaps with non-hardening caulk
11. For HVAC, plumbing, or electrical penetrations, fill gap with fiberglass batting as needed and close with caulk
12. For overhead placement, placement on top of drywall prior to installation is recommended
13. Installation should not begin until all other trades are finished in the area
14. It is recommended that areas to receive Wall Blokker PRO be weather tight. Materials can be stiff and less pliable at low temperatures

Installation Overview:

- Installs vertically, directly to studs, beneath the drywall
- Scrim (white side) should be facing inward (towards the studs)
- Installation requires two or more capable technicians/hangers
- No special training required

Tested and approved for use in all wall designs of the U300, U400, and V400 series.

Commercial Acoustics Wall Blokker PRO Specification

Division 09 – Finishes
Section 09500 – Acoustical Treatment

PART 1 – GENERAL

1.1 SUMMARY
- A. Section includes:
  1. Wall Blokker PRO by Commercial Acoustics soundproofing membrane.

1.2 RELATED DOCUMENTS
- A. Drawings and general provisions of the Contract including supplements and addendums.
- B. Applicable Specification Sections: Division 01 – General and Division 09 – Finishes.

1.3 REFERENCES
- A. International Building Code (IBC) 2012:
  1. Section 1207 – *Sound Transmission*
- B. ASTM Tests:
  1. E90 – *Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.*
  2. E413 – *Classification for Rating Sound Insulation.*
- C. ASTM Specifications:
  1. C840 – *Standard Specification for Application and Finishing of Gypsum Board.*

1.4 SUBMITTALS
- A. For each product indicated:
  1. Product Data Sheet: manufacturer's specifications including laboratory test summary.
  2. Installation Instructions: detailed installation procedure including jobsite condition requirements, surface preparation requirements, and approved products.

1.5 DELIVERY, STORAGE, AND HANDLING
- A. All materials shall be delivered in original unopened packaging.
- B. Wall Blokker PRO may be stored in a wet or dry environment and may be stored outdoors for up to three months on construction sites without special tarps or covering.
  1. If stored below freezing temperatures, material may require up to 48 hours of acclimation to regain pliability.
  2. Acclimate Wall Blokker PRO for a minimum of 24 hours at temperatures 60 degrees (F) or greater to reduce material stiffness when handling.
  3. If material stiffens, it may be softened more rapidly using a heat gun.

1.6 PROJECT CONDITIONS
- A. Wall Blokker PRO is typically installed after framing, insulation, and electrical are complete. Insulation should be installed in the wall cavity in addition for optimal performance.
- B. Ensure that all applicable inspections are completed prior to installation of Wall Blokker PRO.
- C. Wall Blokker PRO may be installed prior to "drying in" the building (prior to installation of windows and doors).

1. Drywall should be installed within 2-4 weeks of Wall Blokker PRO to prevent excessive wear.
    a. For longer delays, washers should be installed for securely fasten the material.
2. Drywall installation permanently attaches Wall Blokker PRO to the stud.

PART 2 – PRODUCTS

2.1 WALL BLOKKER PRO BY COMMERCIAL ACOUSTICS

A. Materials:
    1. Engineered sound reduction membrane.
    2. Flexible Ethylene Vinyl Acetate (EVA) product made from post-industrial recycled material.
B. Dimensions:
    1. Thickness: 1/8”
    2. Weight: 1 lb/sq.ft.
    3. Standard Sizes: 4’x25’ rolls; 4’x10’ and 4’x8’ sheets; custom length rolls available.
    4. Tolerances:
        a. Width: +/- 0.5”
        b. Length: +/- 1%
        c. Nominal Thickness: +/- 0.10”
C. Performance:
    1. Minimum STC = 26 (ASTM E90).
    2. UL Classified Assemblies:
        a. 300, 400, 500 Series
    3. Flammability Rating:
        a. Class 1 (ASTM E84 Rev. A)
        b. 1-Hour fire resistance wall rating (ASTM E119)
        c. 0.3 Thermal Resistance coefficient (ASTM C518)
    4. Environmental:
        a. Mold/Mildew resistant. No fungal/algae growth and no visible disfigurement (ASTM D3273 & ASTM G21).
        b. Impermeable air and moisture barrier.
        c. Non-PVC: no off-gassing.
        d. HIPPA Compliant.
        e. 100% recyclable at end of life.

PART 3 – EXECUTION

3.1 PREPARATION

A. Wall and/or stud assembly to receive Wall Blokker PRO must be structurally sound prior to installation.
B. Wall must be clean and free of debris.
    1. Protrusions greater than 1/16” shall be scraped from the surface to avoid puncturing.
C. See Section 1.6 for additional project condition requirements.

3.2 INSTALLATION

A. Starting in one corner of the room, install Wall Blokker PRO flush with the top of the top plate, and hang it vertically.

B. Place the White scrim side of the Wall Blokker PRO toward the studs.
C. Wood Studs:
    1. Attach Wall Blokker PRO to the top of the wood top plate using wide-crown ½" staples or pan head screws.
    2. Fasten every 12" horizontally along the top plate.
    3. Straighten Wall Blokker PRO from the top down so that it is flush against the studs.
    4. Attach Wall Blokker PRO to the center of each vertical wood stud using ½" staples or pan head screws.
    5. Fasten every 36" vertically along the center of each stud using an exterior fastener pattern, only fastening to the stud where the seam falls.
D. Metal Studs:
    1. Attach Wall Blokker PRO directly to the light gauge metal studs using drywall screws.
    2. Fasten every 12" horizontally along the top.
        a. Wall Blokker PRO installed on walls greater than 15' in height shall be secured with washers along the top to prevent the fasteners from tearing the material.
        b. Fasteners shall be used on intermediate studs (in addition to exterior studs) every 12' vertically.
    3. Straighten Wall Blokker PRO from the top down so that it is flush against the studs.
    4. Attach Wall Blokker PRO to the center of each vertical stud using drywall screws.
    5. Fasten every 36" vertically along the center of each stud.

3.3 PROCEDURE
A. Install Wall Blokker PRO as required on all walls.
B. Keep fasteners as flush as possible to prevent protrusion into the finished wallboard.
    1. Fasteners shall not protrude more than 1/16" from Wall Blokker PRO surface.
C. Do NOT overlap the seams of separate sheets.
    1. Tightly butt the side of the next sheet of Wall Blokker PRO to the edge of the existing attached sheet.
D. For seams that do not fall on a stud, tape with "Seam-Seal" or equivalent.
    1. If seams fall on the stud with gaps greater than 1/8", then taping is also required.
    2. Ensure that there are no bubbles or wrinkles in the tape. Commercial tape alternatives include commercial duct tape.
    3. The tape is semi-permanent and will be permanently sealed in position when drywall is installed. Drywall installation will seal Wall Blokker PRO against the existing studs.
E. Cut Wall Blokker PRO to fit around irregular objects and penetrations including outlets, switches, and junction boxes.
    1. Gaps shall be less than 1/8".
    2. Gaps greater than 1/8" shall be sealed with acoustical or non-hardening caulk.
    3. Gaps greater than 1/4" may be filled with backer rod or fiber batting.
    4. Putty pads should be installed on the back of all electrical boxes.
F. Caulk the bottom of the floor plate at the floor line with acoustical sealant.
G. Install drywall per normal technique (ASTM C840).
    1. Wall Blokker PRO will be fastened permanently when the gypsum board is installed.
H. See Detailed Installation Instructions Figure 1 for diagrams.

END OF SECTION

COMMERCIAL ACOUSTICS

Wall Blokker PRO is a mass loaded, limp vinyl sound damping material designed for commercial, industrial, and residential applications to reduce sound transmission. It is used primarily behind finished wall or ceiling surfaces to block and damp noise through the entire sound spectrum.

Installation Instructions

DO NOT USE WALL BLOKKER PRO TO SURROUND OR ENCLOSE ANY LIGHT FIXTURES CUT WALL BLOKKER BACK A MINIMUM OF 12" AWAY FROM ANY CANNED LIGHTS

Preparation:

1. Wall Blokker PRO is typically installed after framing, insulation and electrical are complete. Insulation should be used in the wall cavity in addition for optimal performance.
2. Ensure that all applicable inspections are completed prior to installation of Wall Blokker PRO
3. Wall Blokker PRO may be installed prior to "drying in" the building (prior to installation of windows and doors)

Step 1
Preparation & Storage

Drywall should be installed within 2-4 weeks of Wall Blokker PRO to prevent excessive wear. If longer delays are expected, washers should be installed to securely fasten Wall Blokker PRO Drywall installation permanently attaches the Wall Blokker PRO to the stud.

Storage:
Wall Blokker PRO may be stored in wet or dry environment, and may be stored outside for up to 3 months on construction sites without special tarps or covering. If stored below freezing temperatures, material may require 24-48 hours of acclimation to regain pliability.

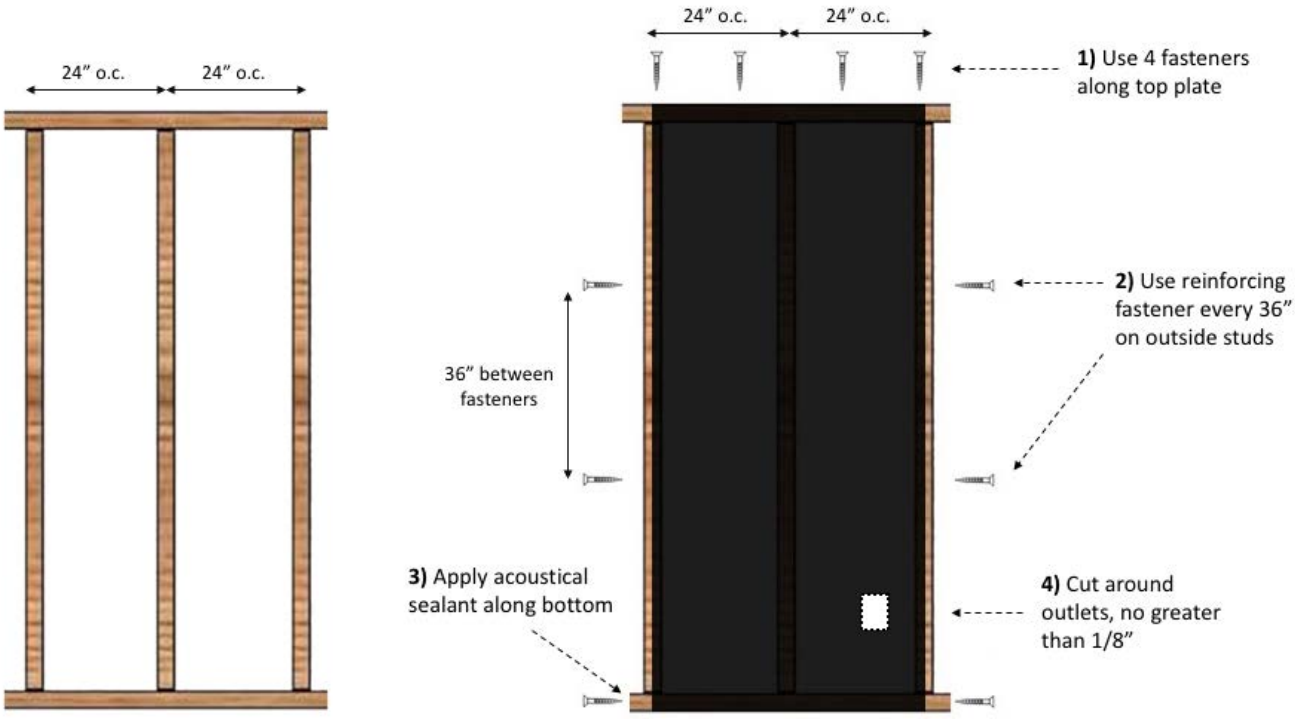
Step 2
Install Wall Blokker

1. Acclimate Wall Blokker PRO for a minimum of 24 hours at temperatures 60°F or greater to reduce material stiffness when handling;
2. Starting in one corner of the room, install Wall Blokker PRO flush with the top of top plate, and hang it vertically.
3. **Wood Studs:** Attach Wall Blokker directly to the top of the wood top plate using wide-crown ½" staples or pan head screws. A fastener every 12" horizontally is recommended along the top. Straighten Wall Blokker PRO so that it is flush against the wood studs, and apply from the top down. Using staples or pan head screws, attach Wall Blokker to each stud in the center of the stud. Only 1 fastener is required every 36" for each vertical stud (refer to Diagram 1). Use an exterior fastener pattern, only fastening to the studs where the seam falls.
   - **NOTE:** Hammer Stapler may be best way to attach staples through Wall Blokker PRO into stud.

   [See Figure 1 for details]
4. **Metal Studs:** Attach Wall Blokker PRO directly to the metal stud using drywall screws. A screw

every 12" is recommended along the top. Straighten Wall Blokker PRO so that it is flush against the metal studs. Using drywall screws, attach Wall Blokker PRO to the stud in the middle of the stud. Only 1 fastener is required every 36" for each vertical stud. [See Figure 1 for details]

5. **NOTE: High Walls**
    - Wall Blokker PRO on walls higher than 15' shall be secured with washers along the top to prevent the fasteners from pulling through the material
    - Fasteners should also be used on intermediate studs (in addition to exterior studs) every 12' vertically
6. Install Wall Blokker PRO on all required walls;
7. Keep fasteners as flush as possible, since all protrusions will put a dimple into the finished wallboard. Fasteners shall not protrude more than 1/16" from Wall Blokker PRO surface.
8. Tightly butt the side of the next sheet of Wall Blokker PRO to the edge of the attached sheet. Do not overlap seams;
9. Tape all seams with "Seam-Seal" or equivalent. Ensure that there are no bubbles or wrinkles in the tape. The tape is semi-permanent, and will be permanently sealed in position when drywall is hung.
    - If seams fall on the stud, with no gaps >1/8", then no taping is required. Drywall installation will seal the Wall Blokker PRO against the existing studs.
    - Commercial Tape Alternatives include commercial duct tape
10. Wall Blokker PRO is easily cut to fit around irregular objects and electrical boxes. The material should be cut around outlets, switches, and junction boxes. Gaps shall be less 1/8". If greater, they shall be sealed with acoustical caulk. Gaps greater than ¼" may be filled with backer rod or fiber batting.
11. Putty pads should be installed on the back of all electrical boxes;
12. Caulk the bottom plate at the floor line with acoustical sealant;
13. Install drywall per normal technique (ASTM# C840 – Standard Specification for Application and Finishing of Gypsum Board). Wall Blokker PRO will be fastened permanently when the gypsum board is hung.



[Figure 1]

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