

Commercial Acoustics Wall Blokker Lite Specification

Division 09 – Finishes

Section 09500 – Acoustical Treatment

PART 1 – GENERAL

1.1 SUMMARY

- A. Section includes:
 - 1. Wall Blokker Lite 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: manufacturer's 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 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 Lite 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 Lite 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 Lite.
- C. Wall Blokker Lite 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 afterwards to prevent excessive wear.
 - a. For longer delays, washers should be installed for securely fasten the material.

2. Drywall installation permanently attaches Wall Blokker Lite to the stud.

PART 2 – PRODUCTS

2.1 WALL BLOKKER LITE 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: nom. 0.063" - 0.075"
 2. Weight: 0.5-0.6 lb/sq.ft.
 3. Standard Sizes: 4'x25' rolls; 4'x8' sheets; custom length rolls available.
 4. Tolerances:
 - a. Width: +/- 0.5"; Length: +/- 1%
 - b. Nominal Thickness: +/- 0.05"
- C. Performance:
 1. RAL Lab Test Data:
 - a. 25ga Studs, 24"o.c. 0.5psf: **STC = 52** RAL-TL18-391
 - b. 25ga Studs, 24"o.c. 0.6psf: **STC = 55** RAL-TL18-392
 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)
 - d. SE "O" in/min.
 4. Strength:
 - a. Tensile Strength: 400 psi
 - b. Tear Strength: 70 lbs./in.
 - c. Ultimate Elongation: 200%
 5. 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 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 Lite flush with the top of the top plate, and hang it vertically.
- B. Wood Studs:
 - 1. Attach Wall Blokker Lite 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 Lite from the top down so that it is flush against the studs.
 - 4. Attach Wall Blokker Lite 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.
- C. Metal Studs:
 - 1. Attach Wall Blokker Lite directly to the light gauge metal studs using drywall screws.
 - 2. Fasten every 12" horizontally along the top.
 - a. Wall Blokker Lite 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 Lite from the top down so that it is flush against the studs.
 - 4. Attach Wall Blokker Lite 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 Lite 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 Lite surface.
- C. Do NOT overlap the seams of separate sheets.
 - 1. Tightly butt the side of the next sheet of Wall Blokker Lite 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 against the existing studs.
- E. Cut Wall Blokker Lite 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 Lite will be fastened permanently when the gypsum board is installed.

END OF SECTION