

Specification — Lead Lined Drywall

A&L Shielding's lead lined drywall is designed to allow the application of various levels of shielding protection to wall surfaces.

Lead Lined Drywall

GENERAL:

This material is designed to cover surfaces of a room requiring radiation shielding.

It is attached to walls using techniques designed to ensure a continuous lead sheet to the height specified.

PRODUCT DETAILS:

Un-pierced sheet lead meeting Federal Specification QQ-L-201F, Grade C, which is 99.9 percent pure lead, and free from dross, oxide inclusions, laminations, scale blisters or cracks, is factory laminated to drywall panels.

Drywall, in 1/2" or 5/8" thickness, conforms to ASTM C36 and Federal Specifications SS-L-30D, Type III, Grade X or R, Class 1, Form a, Style 3.

Lead sheets through 1/16" thickness are 49" wide and are applied to 48" wide drywall. This gives a 1" overlap at the vertical drywall joints. Above 1/16" thickness 2" wide batten strips are used.

Panels are mounted vertically to metal studs with conventional drywall screws. These screws are then covered by 7/8" diameter lead tabs. These tabs are available in lead thicknesses up to 1/4". Above 1/4" lead thickness, special construction must be considered. Refer these cases to the factory.

Lead lined drywall can also be mounted to the ceiling if lead lining is required to shield the area above.

Additional sheet lead material is supplied to permit shielding in the field at cutouts in the drywall that penetrate the lead shield, including outlet boxes, wall switches, phone and data outlets, etc.

EXECUTION:

Always install with sheets oriented vertically. Install

per local standards and code regulations, which may vary by site location. A&L has standard drawings available on request that include general procedures to follow during installation.

In all cases, partial pieces should be used wherever possible due to the value of the material and disposal requirements. Room calculations assume this will occur.

Shielding of walls over door frames is required if openings are below the lead height required in the adjacent walls, i.e. 6'8" door frames in a 7'0" shielded wall.

When installing with drywall screws on metal or wood studs, run the screw head in to a sufficient depth, dimple around the screw head and glue a lead tab over the screw head with fast drying construction adhesive. Then add drywall compound and finish.

Lead must be protected from public contact after installation for both environmental and health reasons. Installers should be trained in safe handling of lead and must observe proper techniques for installation and cleanup.

WASTE – Disposal of all scrap lead must be handled in an environmentally responsible manner.



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