



Guideline and Checklist for Installation of Lead Shielding in a Diagnostic X-ray Facility

This Guideline provides owners with: a) information on the correct procedures for installing lead and other shielding items in an x-ray facility and b) a checklist to confirm that the installation was carried out correctly.

Name of Facility: _____ Room: _____

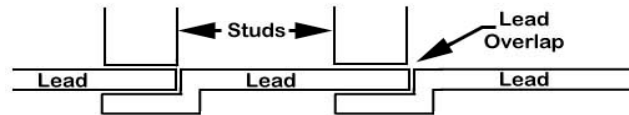
Type of Lead

(one)

- 1. Lead must be 99.9% pure. Y N
- 2. Lead must be "rolled" lead, not acoustic or sound proofing lead. Y N

Installation

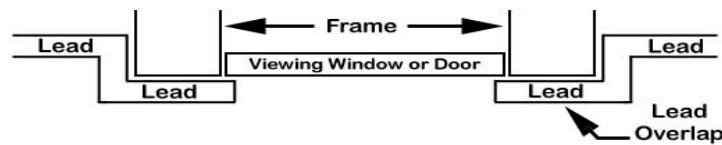
- 3. Lead shielding for walls must extend upwards at least 2.1 meters (7 feet) from the finished floor, unless otherwise indicated on the approved plans. Y N
- 4. If lead is to be attached directly to the studs, all seams must be on studs and the seams must overlap by at least 1 cm (3/8")- see diagram below (not to scale). Y N



- 5. If lead is epoxied to standard drywall construction, all seams must still be overlapped at least 1 cm; however, if the lead is glued on both sides and sandwiched between two layers of standard drywall construction, it is not necessary to locate seams over studs. Y N

NOTE: it is not essential to "cap" the heads of screws or nails with lead.

- 6. Doors must contain the same or greater amount of lead (or equivalent protection) as the walls they are installed in. Y N
- 7. The control booth observation window shall have a lead equivalence equal to or greater than that required for the partition (or door) in which it is located. Y N
- 8. Lead must overlap all doors and window frames - see diagram below (not to scale) to prevent "line of sight" openings for radiation to pass through. Y N



- 9. The control booth barrier at the open end must extend a distance of at least 45 cm (18") beyond the nearest edge of the control panel. Y N
- 10. Electrical junction boxes must be wrapped with lead on the sides and back. Y N

If any "N" boxes are checked, follow-up is required to identify and correct deficiencies.

Information Confirmed By:

Name: _____
 Signed: _____
 Designation: _____
 Date: _____

Keep a copy of this signed document and a small sample of the lead on record for future reference/inspection. Attach a copy of room plan showing adjacent areas and their function with this document.

