



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

This Guideline provides owners with:

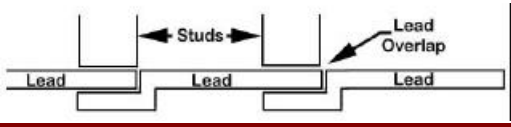
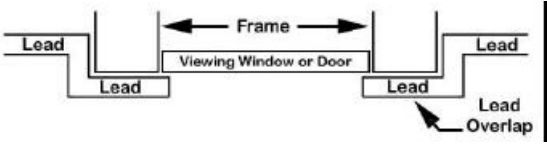
- a) information on the correct procedures for installing lead and other shielding items in an x-ray facility and
- b) a checklist to confirm that the installation was carried out correctly.

**Name of Facility: Room:**

Type of Lead (R one)

1.	Lead must be 99.9% pure.	Yes	No
2.	Lead must be "rolled" lead, not acoustic or sound proofing lead.	Yes	No

### 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.	Yes	No
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 1cm (3/8") – see diagram below (not to scale).  	Yes	No
5.	If lead is epoxied to drywall, 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 dry wall, it is not necessary to locate seams over studs.  <b>NOTE: it is not essential to "cap" the heads of screws or nails with lead.</b>	Yes	No
6.	Doors must contain the same or greater amount of lead (or equivalent protection) as the walls they are installed in.	Yes	No
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.	Yes	No
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.  	Yes	No
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.	Yes	No
10.	Electrical junction boxes must be wrapped with lead on the sides and back.	Yes	No

**If any "No" 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.**