

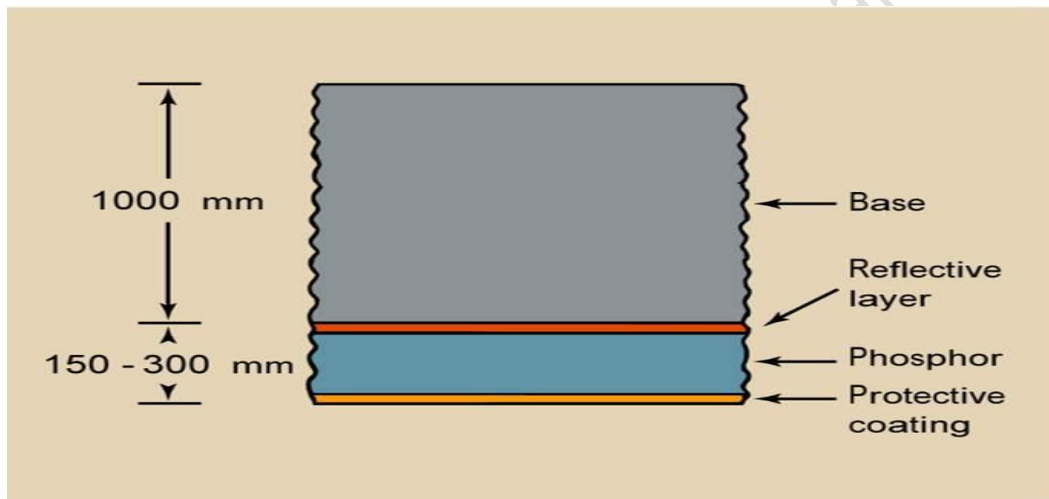
Intensifying screens & Cassette

Intensifying screens:

Usually the radiographic film is sandwiched between two screens.

In most screens there are four distinct layers:

- 1-Protective coating
- 2-Phosphor : To convert the energy of the x – ray beam into visible light.
- 3-Reflective layer
- 4-Base : It acts as a mechanical support for the phosphor layer.



Fig(1) :layers of Intensifying screens

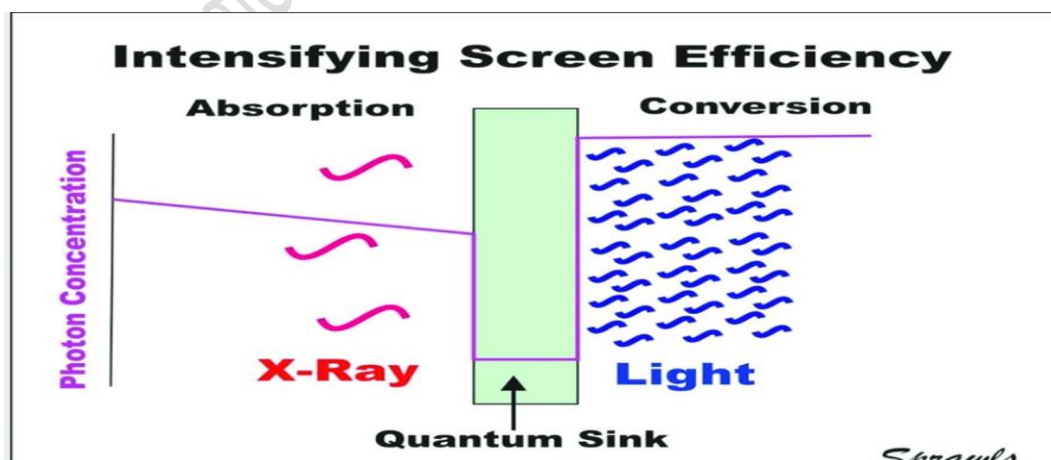


Fig (2) : Working mechanism intensifying screens

Cassette:

The cassette contains two important layers, front and back, as shown in the figure(3).

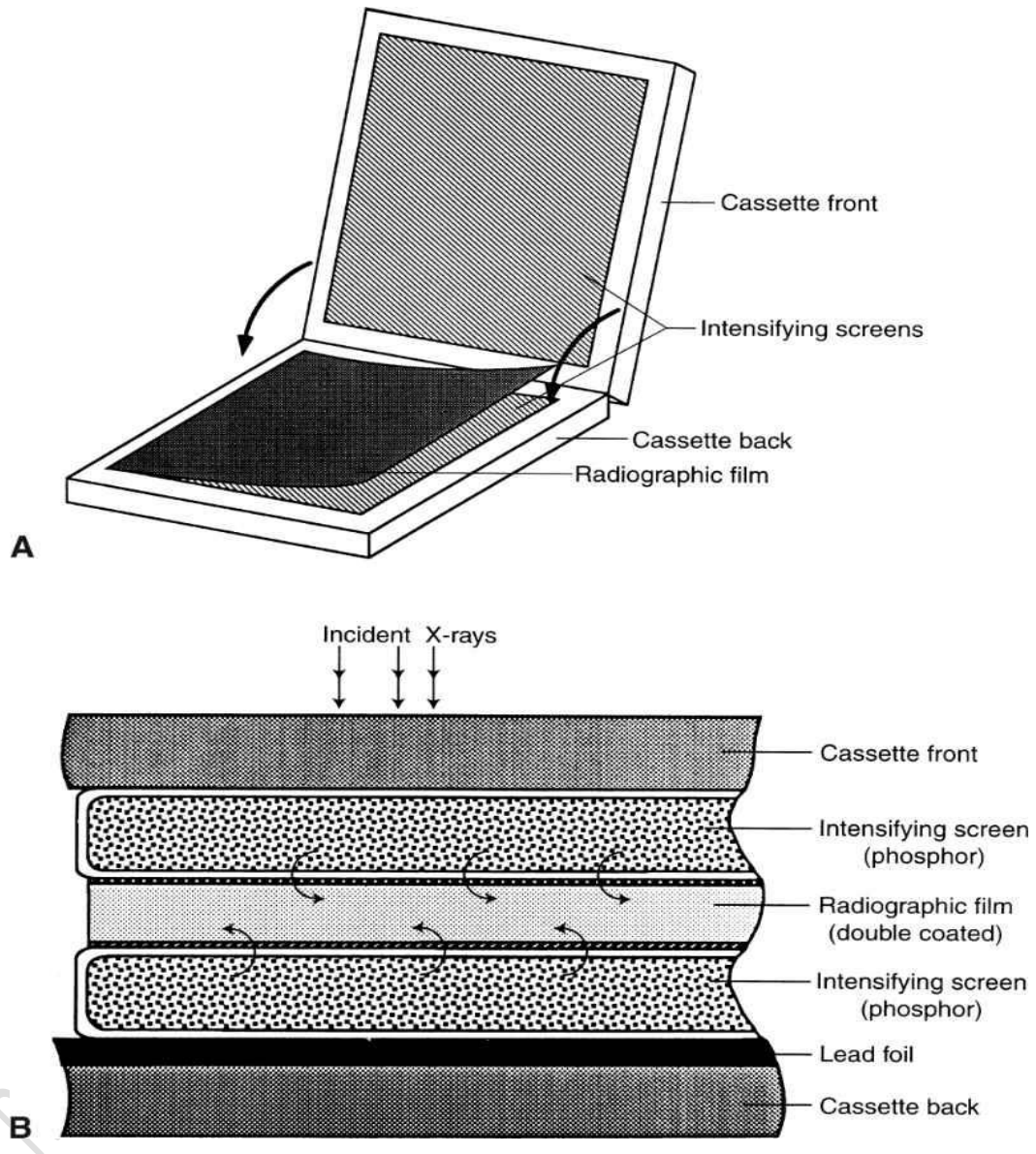


Fig (3): The combination of film, intensifying screen & cassette.

The front surface should be made of material with a low atomic number and the back surface is usually made of high atomic number to minimize backscatter.