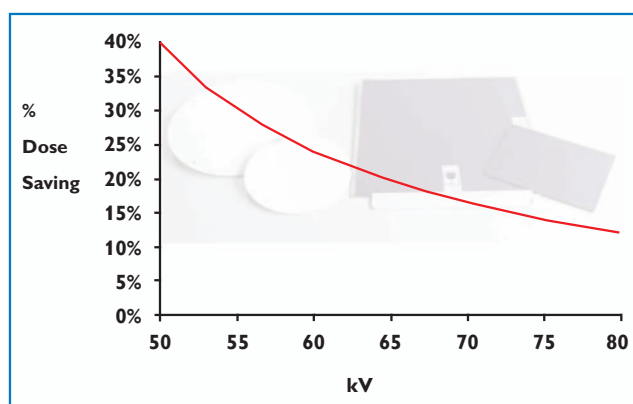


## Lightweight grids for portable flat panel detectors

Smit Röntgen proposes the optimal lightweight / low dose solution offering fiber interspaced grids.

# Lightweight grids for portable flat panel detectors

- For example, with a grid used in a 14" x 17" flat panel detector, the **weight difference** is significant:
  - Aluminum interspaced grid: 2400 grams
  - Fiber interspaced grid: 950 grams
- To support any flat panel detector, Smit Röntgen offers to supply with a **customized frame** or cap to contain the grid. The assembly of the frame or cap includes attachment of the grid, as well as alignment and inspection.
- With a Smit Röntgen grid, a **significant dose saving** can be achieved:



1.5mm fiber interspaced compared with 1.5mm aluminum interspaced grid.  
20 cm water phantom  
Test setup under IEC 60627 2001 conditions.

## Introducing the key notes on Smit Röntgen fiber interspaced grids:

- On average 20% - 40% less absorption of radiation because of the **fiber interspacer**, when compared to aluminum interspacer of competitors..
- ..meaning 20% - 40% **less dose** for the patient
- ..meaning less constraint on the X-Ray tube and therefore cost saving by **longer tube lifetime**
- **Lower weight** than aluminum interspaced grids, aluminum grids are up to 3 times heavier
- The 'must have' grid for digital with **improved SNR/DQE** and Q-factor
- Every grid is X-Rayed and approved before leaving the factory
- Engineering team of 6 engineers with much grids and X-Ray systems experience, so high level of advise on X-Ray applications

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