WATER-EQUIVALENT SLAB PHANTOM FOR QA IN RT

DESCRIPTION

EASY SLAB supports frequently reccurent standard dosimetry in the field of radiation oncology.

The phantom is used in combination with irradiation detectors like ionization chambers (IC).

Corresponding adapter plates allow the detectors to be positioned as required for the QA task.

EASY SLAB is available as 300 mm cube-shaped phantom or in a larger version as 400 x 400 x 300 mm cuboid.

Both versions consist of 1 slab of 1 mm thickness, 2 slabs of 2 mm, 1 slab of 5 mm and 29 slabs of 10 mm.

SETS

EASY SLAB
PHANTOM SET

Can be composed to a block phantom with a base of 300 mm × 300 mm and a maximum height of 300 mm

Consists of

- Single SLAB plates:
  29 x 10 mm,
  1 x 5 mm,
  2 x 2 mm,
  1 x 1 mm
- Transport & Storage case

Adapter plates for IC have to be ordered separately.

EASY SLAB LARGE
PHANTOM SET

Can be composed to a block phantom with a base of 400 mm × 400 mm and a maximum height of 300 mm

Consists of

- Single SLAB plates:
  29 x 10 mm,
  1 x 5 mm,
  2 x 2 mm,
  1 x 1 mm
- Transport & Storage case

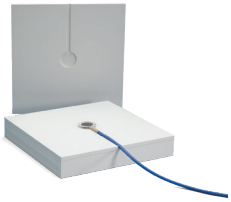
Adapter plates for IC have to be ordered separately.

SINGLE ITEMS

EASY SLAB Plates RW3

	EASY SLAB	EASY SLAB large
1 mm plate	300 mm x 300 mm	400 mm x 400 mm
2 mm plate	300 mm x 300 mm	400 mm x 400 mm
5 mm plate	300 mm x 300 mm	400 mm x 400 mm
10 mm plate	300 mm x 300 mm	400 mm x 400 mm

ACCESSORIES



EASY SLAB IC Adapter Plate (various types)
has to be specified by customer, depending on his IC of choice

TECHNICAL DATA

Material	Water-equivalent white polystyrene "RW3" for high-energy photon and electron radiation
Energy range	Photons ^{60}Co – 25 MV Electrons 4 – 23 MeV
Material composition	Polystyrene (C_8H_8) with admixture of 2.1 % ± 0.2 % TiO_2
Mass density	1.045 g /cm^3
$(Z / A)_r$ value	0.536
Electron density	3.386 × 10^{23} e /g
Electron concentration	3.39 × 10^{23} e /cm^3

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