Logos Chevron Wedge 140

X-ray and Proton Beam Metrology - Logos Systems Int'l

Features and Benefits:

- **Proton and X-ray beam depth dose measurements**
- **Fast Bragg peak determination of protons up to 130 MeV**
- **Easily extendable range**
- **Complements the Logos Systems XRV-2020 and XRV-2020A**
- **Small 60 x 60 mm footprint**
- **Tissue equivalent composition**
- **Excellent reproducibility**
- **Easy handling for use at various gantry angles**
- **Compatible with Gafchromic film and water tank systems**
- **Custom sizes and compositions available**

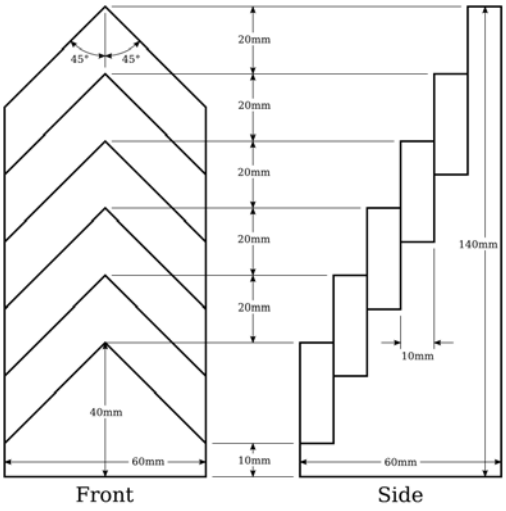
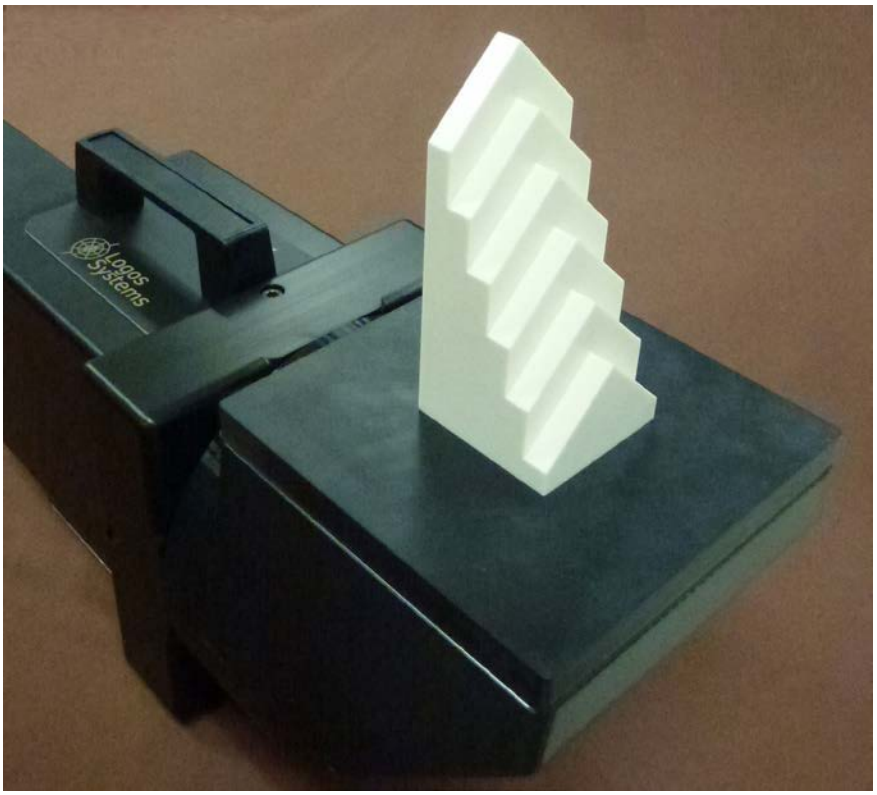


Diagram of LCW-140 Dimensions



LCW-140 on the XRV-2020A Scintillator Camera Phantom

The LCW-140 is a tissue equivalent wedge that can be used to measure proton and X-ray beam depth dose relationships. It was specifically designed to quickly and accurately measure the proximal and distal edges of an ion beam's Bragg peak. The height of 140 mm allows proton beam energies up to 130 MeV to be directly measured.

The 60 x 60 mm foot print allows the LCW-140 to be easily mounted on the rotating mirror assembly of the XRV-2020 so that measurements can be made at any gantry angle. The LCW-140 can also be used with the XRV-2020A as shown above or with Gafchromic film.

The chevron wedges overlap so that measurements on the edge of one range can be duplicated at the beginning of the next. The wedge angle of 45 degrees allows readings to be quickly made on each side of the center line and averaged for greater precision.

Higher energy beams can be measured by adding one or more stackable LCW-100 units. Each one extends the proton energy range by an additional 100 MeV. The LCW-140 is also available in aluminum and brass. The patent-pending design can be made taller and wider with additional chevrons. Please contact us if your application requires a custom configuration.

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Logos Systems

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