

# Capabilities



## Magnesium fluoride prisms

The most frequently requested specifications for magnesium fluoride prisms are as follows:

<b>Length of hypotenuse</b>	up-to $50 \pm 0.1\text{mm}$
<b>Length of sides</b>	up-to $50 \pm 0.1\text{mm}$
<b>Thickness</b>	$30 \pm 0.05\text{mm}$
<b>Angle tolerance</b>	better than 1 arc minute
<b>Edge finish</b>	ground, blacked
<b>Clear aperture</b>	90% of entrance dimensions
<b>Chamfer</b>	$0.3 \times 0.3 @ 45^\circ$
<b>Form error</b>	better than $\lambda/4$ (633nm) over aperture
<b>Surface quality</b>	20-10 scratch/ dig

## Coatings

BBAR coating @1-7 $\mu\text{m}$

Diamond-Like Carbon (DLC) coating @1-7 $\mu\text{m}$

Our capabilities are always expanding so if your requirement is not mentioned above please enquire as we have many years of experience in this field.

Contact our multilingual technical sales team and discover how Knight Optical's high quality magnesium fluoride prism capabilities and service can improve your instrumentation and supply chain experience.

