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Richardson Gratings™ 600 Grooves, 30 x 30mm, Plane Ruled Gold Reflection Grating

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Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings



Stock #15-780 [CONTACT US](#)

- 1 + £176⁰⁰

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Volume Pricing

Qty 1-9	£176.00 each
Qty 10-24	£158.00 each
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Product Downloads

General

Reflective Diffraction Grating **Type:**

520R **Master Reference:**

Physical & Mechanical Properties

30.0 x 30.0 ±0.1 **Dimensions (mm):**

>90 **Clear Aperture (%):**

Ruled Grating **Construction:**

30.00 **Length (mm):**

6.00 ±0.5 **Thickness (mm):**

30.00 **Width (mm):**

±1 **Centering of Ruled Area on Substrate (mm):**

±0.15 **Alignment of Grooves to Edge (°):**

<0.05 **Groove Spacing Tolerance (%):**

Optical Properties

600 **Groove Density (grooves/mm):**

700 - 1600 **Wavelength Range (nm):**

1000 **Blaze Wavelength (nm):**

17.5 **Blaze Angle (°):**

Gold **Coating:**

Float Glass **Substrate:**

λ/4 **Reflected Wavefront, RMS:**

S, P and Average **Polarization:**

1 **Spectral Order (m):**

Regulatory Compliance

[View](#) **Certificate of Conformance:**

Product Details

- Optimized for use from 350-800nm (500nm) or 700-1600nm (1000nm)
- Available in standard sizes 12.7 x 12.7, 25 x 25 and 30 x 30mm
- Groove Spacing Tolerance <0.05%
- Custom Sizes Available

Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings are gold coated versions of the Richardson Gratings™ High Precision Plane Ruled Reflective Diffraction Gratings. They are available with blaze wavelengths 500nm or 1000nm and optimized for use at 350-800nm or 700-1600nm respectively. These ruled gratings are characterized by a superior efficiency at their design wavelength compared with holographic gratings. Richardson Gratings™ High Precision Plane Reflective Gold Diffraction Gratings are an excellent choice for spectroscopy setups using silicon detectors or fiber-optic telecommunication applications for which higher reflectivity in NIR/IR spectral regions is required. Custom sizes are available on request.

Note: The surface of these gratings is very sensitive and should never be touched when handling the optic. If cleaning is required, i.e. to remove dust particles, non-contact cleaning using clean compressed air is recommended.