

JJ X-Ray Soller Collimator:

Technical Specifications Standard Equipment:	
Aperture size:	Height 50 mm Width 10 mm Depth 88 mm
Outer dimensions:	Height 92 mm Width 30 mm Depth 100 mm
Collimation:	2.8 mrad = 0.160 deg (FWHM of triangular transmission profile)
Transmission:	~70 %
Foils:	45 micron thick Gd-oxide coated PETP/Mylar Foil
Spacers:	0.25 mm thick stainless steel
Side plates:	Anodized aluminum or stainless steel
Weight:	~1 kg

Technical Specifications Larger Version:	
Aperture size:	Height 100 mm Width 10 mm Depth 191 mm
Outer dimensions:	Height 142 mm Width 30 mm Depth 200 mm
Collimation:	2.6 mrad = 0.148 deg (FWHM of triangular transmission profile)
Transmission:	~85 %
Foils:	45 micron thick Gd-oxide coated PETP/Mylar Foil
Spacers:	0.50 mm thick stainless steel
Side plates:	Anodized aluminum or stainless steel
Weight:	~2 kg

The JJ X-Ray Soller Collimator/Soller Slit is typically used to limit stray radiation in X-ray diffractometers, either in highly customized laboratory settings or at synchrotron facilities.

The collimators are based on the JJ X-Ray standard Gd-oxide coated stretch-foil technique.

Customized Options for JJ X-Ray Soller Collimator:

Technical Specifications Options:		Surcharge
Collimation:	Any desired collimation can be accommodated. The minimum collimation achieved so far is 1 mrad	Yes
Multiple collimation:	The collimator can be provided with spaces of different thickness, such that regions of the collimator may have different degrees of collimation Collimators with both 2 and 3 differing regions have been produced	Yes
Vacuum:	The collimator can be provided in any evacuable version	No
Combined with slit:	A slit can be positioned in front of the collimator upon request. Size and position of the slit can be set using the attached motors and the whole arrangement can be moved across the X-ray beam to select a specific section of the collimator	Yes



X-Ray Soller Collimator