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TECHSPEC® 8" Diameter x 64" FL Uncoated, Parabolic Mirror

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General

Type:
Parabolic Mirror

Physical & Mechanical Properties

Diameter (mm):
203.20 +1.5/-0

Back Surface:
Ground

Clear Aperture CA (mm):
183

Diameter (inches):

8.0 +0.06/-0

Edge Thickness ET (inches):
1.37

Edge Thickness ET (mm):
34.80

Optical Properties

Coating Type:
Uncoated

Coating:
Uncoated

Effective Focal Length EFL (mm):
1,625.60

Substrate:
BOROFLOAT®SUPREMAX®

Aperture (f/#):
f/8

Effective Focal Length EFL (inches):
64.00

Focal Length Tolerance (%):
±1.5

Surface Accuracy:
λ/8

Surface Quality:
60-40

Radius of Curvature (mm):
3,251.20

Regulatory Compliance

Certificate of Conformance:
View

Product Details

- λ/8 Surface Accuracy
- Wide Range of Sizes up to 412.8mm Diameter
- Variety of Coating Options Offered

TECHSPEC® Precision Parabolic Mirrors are available in sizes ranging from 3" (76.2mm) to 16.25" (412.8mm) and are ideal for a wide range of applications. These parabolic mirrors are offered with protected aluminum, enhanced aluminum or protected gold coatings. Uncoated substrates are also available.

TECHSPEC® Precision Parabolic Mirrors deliver exceptional optical performance for high-precision focusing and collimation across a wide wavelength range. These parabolic mirrors feature λ/8 surface accuracy and 60-40 surface quality, minimize aberrations and scattering, and ensure high reflectivity and tight focus in demanding laser, imaging, and illumination systems. They offer excellent reflectance from visible to infrared regions and are available with protected aluminum, enhanced aluminum, protected gold coatings, or uncoated. Designed with BOROFLOAT® substrates for superior thermal stability, they perform well for applications in aerospace, spectroscopy, and optical instrumentation where precise beam control is critical.

FAQ(s)

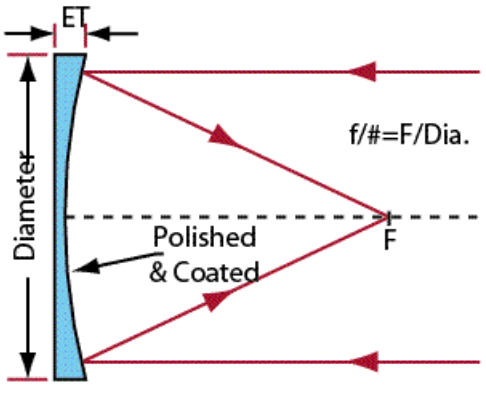
Which coating options are available for these parabolic mirrors?
Coating options include protected aluminum, enhanced aluminum for high visible reflectivity, protected gold for infrared use, and uncoated versions.

What materials are used for the mirror substrates?
BOROFLOAT® glass provides excellent thermal stability and mechanical durability, especially in temperature-sensitive environments.

In what types of applications are these parabolic mirrors typically used?
They are ideal for laser systems, optical instruments, spectroscopy setups, aerospace applications, beam collimation or focusing assemblies, and more.

How large are the available diameters for the Precision Parabolic Mirrors?
Mirror sizes range from 3 inches (76.2mm) to 16.25 inches (412.8mm), offering a wide selection for different optical design needs.

Technical Information



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