

# Corning® Half Area 96 and 384 Well Black Glass Bottom Microplates

## Quick Technical Sales Sheet

CORNING

Corning half area 96 and 384 well black glass bottom microplates are designed for high-sensitivity fluorescence detection, where low background and well bottom flatness are critical. Glass bottom microplates have excellent flatness and thickness uniformity to provide optically clear as well as optically flat surfaces for cell-based assays.

- ▶ Glass Bottom Thickness: 200  $\mu\text{m}$
- ▶ Microplate Bottom Flatness: <50  $\mu\text{m}$

### Competitive Benchmark Against Other Commercially Available Glass Bottom Microplates

Corning glass bottom microplate functionality was assessed using MSLID (Measurement, Scanning, Label Independent Detection) as a measure of flatness across the bottom of the microplate (Fig. 1) and well bottom elevation (WBEV) (Fig. 2). Visual clarity and overall functionality were assessed using the GE Insight High Content Imager (Fig. 3).

Figure 1

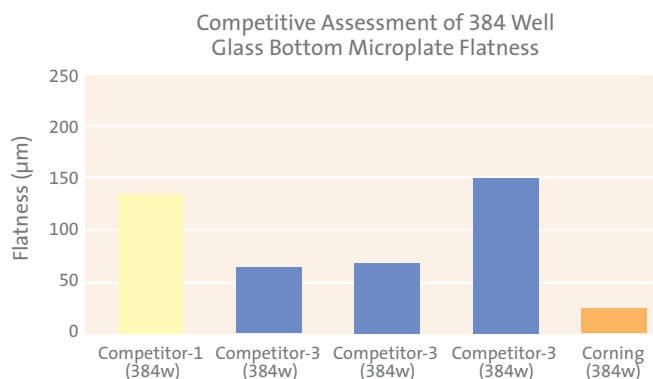
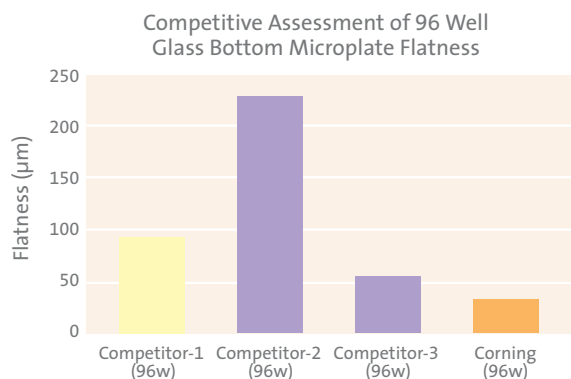
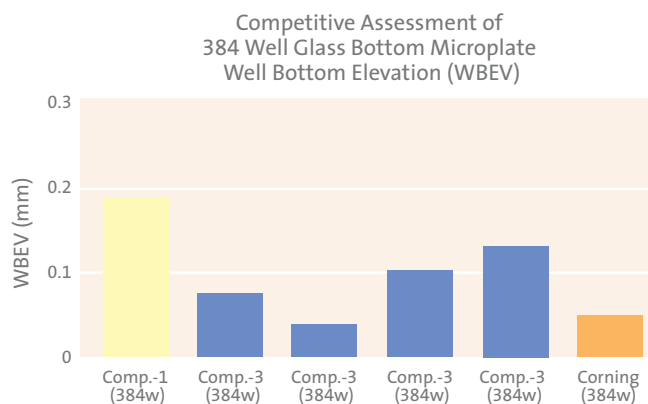
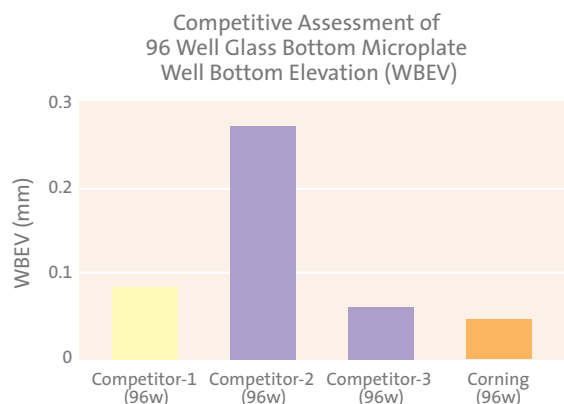
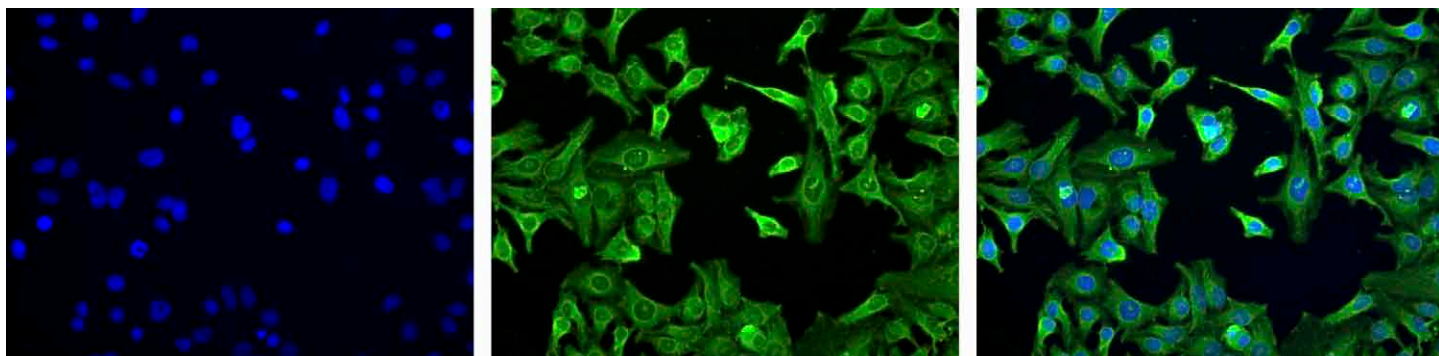


Figure 2



Figures 1 and 2. Competitive benchmarking results comparing Corning 96 half area (left) and 384 well (right) glass bottom microplates. Corning outperforms the competitor products.



**Figure 3.** CHO Cell Images Using the GE Insight Imager. The figure on the left are CHO cells stained with the nuclear stain DAPI. The middle image shows Green Fluorescent Protein (GFP) staining. The figure on the right is an overlay of the two images. Magnification = 20x.

### Summary

- ▶ Corning® glass bottom microplates are ideal for high content imaging.
- ▶ The microplate flatness (<50 µm) is better than competitive microplates tested.
- ▶ The 96 half area and 384 well microplates formats are designed for screening cell-based assays and provide options for assay miniaturization.

### Glass Bottom Microplate Dimensions for Use When Optimizing on High Content Imagers

Description	Well Area (mm <sup>2</sup> )	Bottom Material	Flatness Spec (µm)	Thickness of Plate Bottom (µm)	Well Bottom Elevation (mm)	Refractive Index of Plate Bottom
Corning Glass bottom 96 well (half area) microplate	15.9	Glass	<50	200	2.4	1.523
Corning Glass bottom 384 well microplate	6.15	Glass	<50	200	3.3	1.523



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