

What differentiates a Flat Panel?



ALL FLAT PANELS ARE NOT CREATED EQUAL

They may look the same on the outside, but it's what's on the inside that distinguishes a quality panel from the rest of the pack. The next time you consider a flat panel, be informed and ask the manufacturer about the components they use.

LIGHT GUIDE PLATE MATERIAL

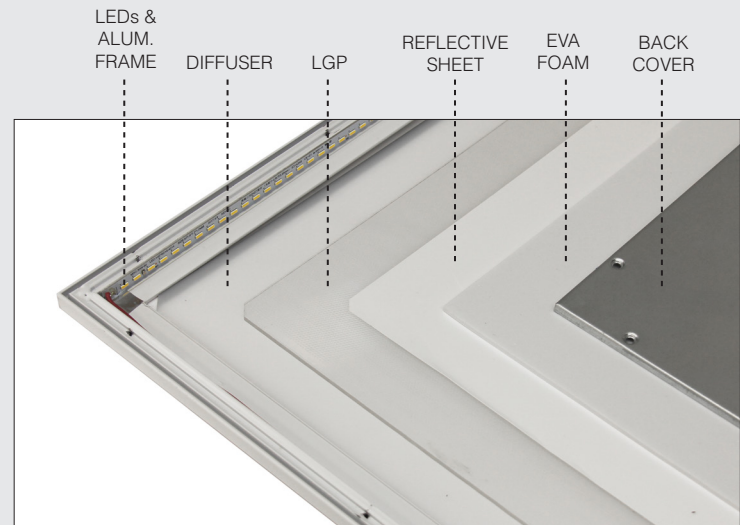
The light guide plate (LGP) plays the most important role in the performance of a flat panel. It is the component responsible for transmitting light and directing it evenly outward. Differences in thickness and material impact the performance and life of the product. There are three types of materials commonly used in the construction of light plates: PS (polystyrene), MS (Methylmethacrylate-Styrene), and PMMA (Polymethyl methacrylate). Here's the difference between the three:

1) PS LGP - acceptable optical performance, inexpensive and known to turn yellow within just a few years.

2) MS LGP - very good optical performance, and will not yellow during the rated life of the product; excellent price-performance ratio.

3) PMMA LGP - delivers the best optical performance, but is also the costliest material.

■ To provide our customers with a high-performance and highly affordable lighting solution, MaxLite does not use PS LGP.



BACK BOARD THICKNESS

Some panels are constructed with back boards that are too thin to provide adequate stability during installation.

■ MaxLite panels are stable and dependable when mounted using any of our mounting options (grid, surface, cable hang).

COLOR CONSISTENCY (CCT)

Without tight LED binning, the color temperature (CCT) of the panels can differ significantly, enough to be easily visible to the naked eye.

■ MaxLite controls binning to a tighter specification than many other manufacturers, ensuring the uniformity of our panels.

RELIABILITY OF THE BRAND

Many flat panel manufacturers have been in the market for a very short period of time.

■ MaxLite has provided energy-efficient lighting solutions since 1993. We warranty our panels for 5 years, and provide lifetime product support, giving our customers confidence that we will be there throughout the lifecycle of the product.