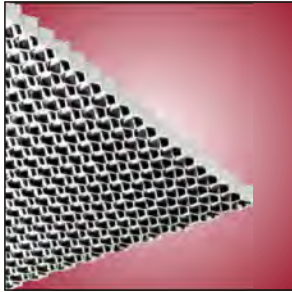
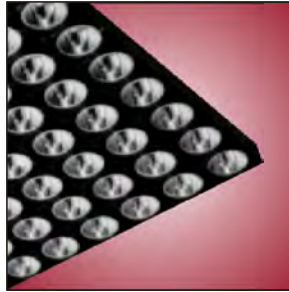
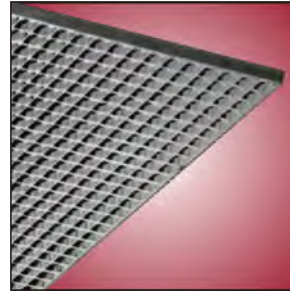
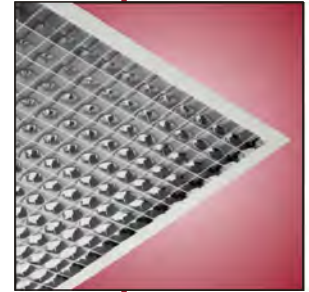




A.L.P.

Specification Finishes for Plastic Parabolic Louvers

**Hexabolic™ 2****Deco-Round 33****Para-Lite 1****Para-Lite 2**

SPECULAR FINISHES (Standard)

All parabolic surfaces shall be prepared with a primary undercoat. A coating of high purity (99.99% pure) aluminum shall be applied by means of vacuum vapor disposition in a thickness range of 800 to 1000 angstroms. Total reflectivity shall not be less than 92% for specular silver louvers. (Specular gold reflectivity will be slightly reduced.)

SEMI-SPECULAR SILVER (Optional)

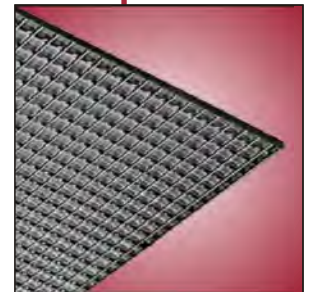
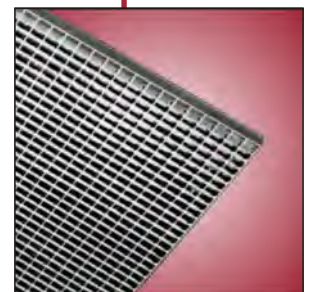
All parabolic surfaces shall be prepared with a primary undercoat. A coating of high purity (99.99% pure) aluminum shall be applied by means of vacuum vapor disposition in a thickness range of 800 to 1000 angstroms. A specially formulated translucent coating is applied to the specular finish which reduces the high gloss level. This results in omni directional diffused light giving a warm halo effect around the louver and beyond the cut-off angle. The semi-specular finish reduces the contrast ratio between the ceiling and the low brightness louver.

DURABOLIC FINISH (Optional)

A top surface coating used in plastic metallized louvers, when the metallic appearance must be maintained in a hostile environment. It is a durable finish that protects the metallized louver surface during handling. The Durabolic finish withstands fingerprints, smudges, scratches, dirt, hostile liquids and temperature changes. It is easily cleaned with a soft cloth or mild detergent.

QUALITY

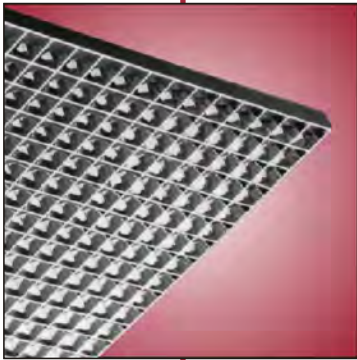
The above finishes are applied in a humidity and temperature controlled clean room environment. Each louver passes inspection points to insure the built-in quality that A.L.P. is recognized for in the lighting industry. You will receive the finest possible product available.

**Para-Lite 3****Para-Lite 4****Para-Lite 5**

A.L.P. . . . Engineering the Quality into the Product

**For more information, or to place an order,
contact Customer Service.**

A.L.P. "Durabolic"® Protective Coating vs. Competitions "Ultralux" Protective Coating



The object of the testing of these competitive products was to verify claims as applied to characteristics of various finishes on metallized silver plastic louvers.

These tests† were performed by an independent testing company using ASTM standards.* They were completed on May 7th, 1998 and July 9th, 1998.

* Analytical Services Testing Method

† A.L.P. Para-Lite 2 (1-1/2" x 1-1/2" x 1") with Durabolic protective finish

American Louver ParaCube II (1-1/2" x 1-1/2" x 1") with Ultralux protective finish

Standard Metallized Specular Finish PL 2/2 24 SPS

For additional information, contact A.L.P. Lighting Components, Inc.

Initial Results



There is a substantial difference in the hardness of the protective **Durabolic** coating vs Ultralux. It took 10X more **weighted force** to remove the **Durabolic** finish. There was no comparison done for the standard louver.



The 500 hour **humidity test** showed a slight deterioration in the metallized finish with a slight loss in reflectivity on the Ultralux protected louver. The **Durabolic** protected louver had no finish loss and minor loss of reflectance. The standard louver lost 80% reflectivity.



There was no difference in **dust removal** from any of the louvers tested. Dusting was done through a double dip process. First in a clean bath and then agitated. A second



Both louvers were subjected to a 500 hour **Salt Spray**. The Ultralux protected louver had a significant loss of the metallized coating and a moderate loss of reflectance. The **Durabolic** finish had no loss of the metallized coating and a slight loss of reflectance. The standard louver lost 100% reflectivity.



Using **Common Cleaners** (i.e.: Windex, Fantastik, 409, etc.) to "spot" clean the louvers, showed no significant difference in the finishes of the two. When a concentrated cleaner with ammonia additive was used on the Ultralux finish, there was a considerable loss of the Metallized Silver Coating and a loss of reflectance. The **Durabolic** Finish under the exact same circumstances had no loss of the metallized coating with a slight loss of reflectance. The standard louver was not tested.



The **QUV (ultraviolet exposure) at 500 hours** showed significant effects on the protective coating. The Ultralux showed blistering and cracking with a slight loss of reflectance. The Durabolic finish showed no more than a minor discoloration with no loss of reflectance.

A.L.P. Durabolic... Clearly the Choice



A.L.P.
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