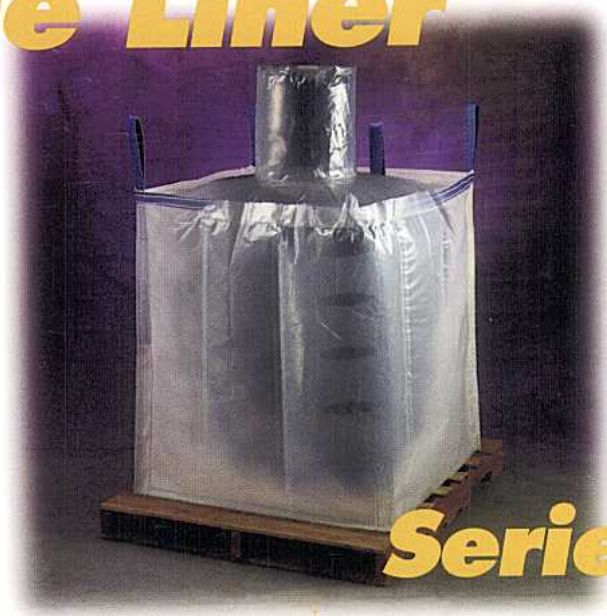


Baffle Liner

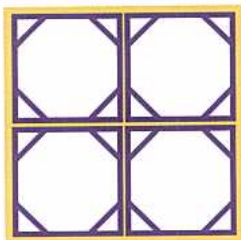


Series 6000
construction

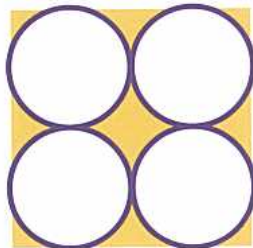
*Protects dry semi-bulk materials
from contamination and sifting
in space-saving stable cube
during processing, shipping and
storage. For stand-alone use
or for added protection in FIBCs,
corrugated boxes and other
non-rigid packages*

Maximize your shipping and storage space while protecting your products from contamination and sifting with the Guardian Baffle Liner

Now you can achieve a space-saving cubed semi-bulk package stand-alone, in your FIBC or corrugated box with the Guardian Baffle Liner. The liner makes your package squarer and stable when shipping and storing dry, flowable materials such as powders and granulars. Plus, the liner protects the contents from contamination and sifting which can easily occur in an unlined package. The liner features internal baffles that prevent the outward push of material that creates space-robbing rounded packages. The result is more material in a smaller space which lowers your shipping and storage costs.



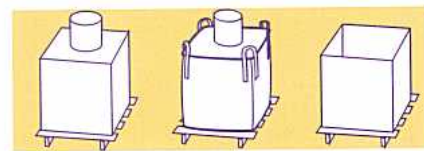
Square packages better utilize the floorspace of a warehouse or the shipping vehicle.



Rounded packages waste space, increasing your warehouse and shipping costs.



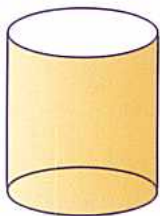
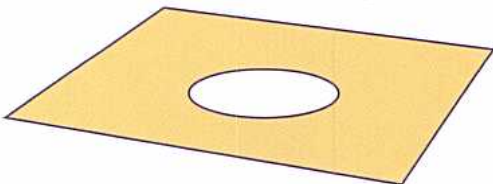
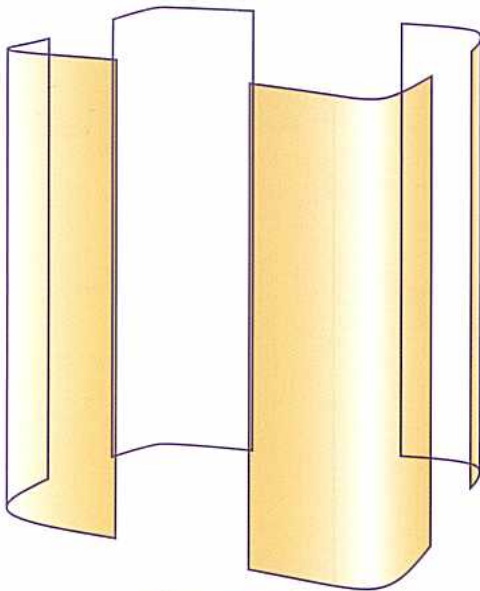
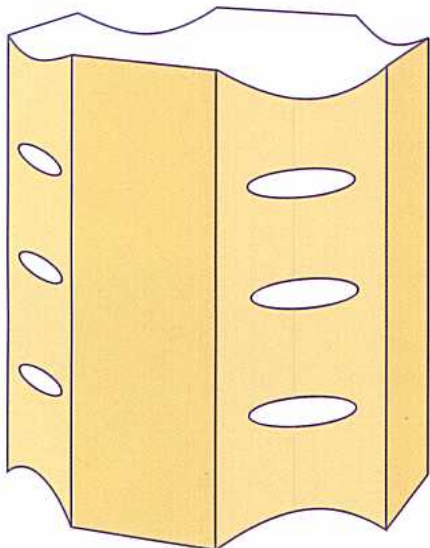
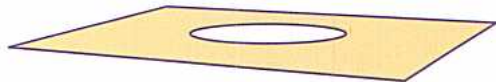
Guardian Baffle Liners create space-saving packages three ways



Stand-Alone with Slip Cover

FIBCs

Corrugated Boxes



Fill Spout

Precisely attaches to your filling equipment to direct material flow into the liner. Controls dust and reduces labor by eliminating gathering of excess material. Ties off securely, quickly and easily. Available in diameters; 6", 10", 12", 14", 16", 18", 20", 22" and 24". Standard material is 3mil, LLDPE.

Top Cap

Encloses the top of the liner body to protect contents. Optional attachment points are available for securing the liner to the outer package. Can be made from reinforced material for added protection from abrasion. Standard material is 3mil, LLDPE.

Baffle

The backbone of the Series 6000 liner. This octagon shaped tube is attached to the liner body to prevent the outward push of material. The panels span across the four flat surfaces of the body acting as a girdle and keeping them in a generally square footprint. Unique co-extruded material is engineered with a high tensile strength without elongation to prevent package rounding over time. Each baffle span is vented to aid in material flow during filling and discharge. Standard material is 8mil, Coextruded HDPE.

Outer Corners

The outer body of the liner protects the contents from contamination by foreign materials such as moisture and debris. It also prevents leakage. The corners work in conjunction with the baffle as a unit to retain it's space saving square shape. The top cap and the bottom cap fully enclose the contents. Footprints available are 37", 40" and 42" square, plus a 37" x 43" rectangle. Standard material is 6mil, Coextruded HD/LDPE.

Bottom Cap

Encloses the bottom of the liner body to protect contents. Optional attachment points are available for securing the liner to the outer package. Can be made from reinforced material for added protection from abrasion. Standard material is 3mil, LLDPE.

Discharge Spout

Precisely attaches to your discharging equipment to direct material flow from the liner. Controls dust and reduces labor by eliminating gathering of excess material. Ties off securely, quickly and easily. Available in diameters; 6", 10", 12", 14", 16", 18", 20", 22" and 24". Standard material is 3mil, LLDPE.



Form-Fit Construction

Guardian Series 6000 liners are form-fitted to your outer package. The liner retains the cube shape while the outer package serves as protection from abrasion and puncture. There are four side panels with a top and



Series 6000 Baffle Liner with approximately 2,000 lbs. of plastic resin. Liner dimensions are 42"x42" footprint with a height of 46". This liner can be a stand-alone package with the simple addition of a reusable slip cover.

bottom, forming a cube free of folds and traps that hinder filling and discharge. You get more material in the package and complete discharge without residual loss. The form-fit construction also allows material to completely fill into the corners of the outer package which creates a fuller and more stable package. The result is

reduced shifting during transport and increased stability. You get more product in a smaller space significantly reducing your transportation and storage costs.

Guardian Series 6000 liners are engineered to withstand aggressive topple, drop and vibration testing to prevent failure in extreme conditions. The films used in construction of this liner have undergone vigorous testing in development of the product. The resulting liner has excellent puncture resistance, high tensile strength, and very good moisture & vapor barrier qualities. It can retain its form even under heavy loads over extended periods of time. The liner pattern and placement of thermal impulse heat seals are key to Guardian's formed liner integrity. Stress points are reduced by seal location and form. Construction patterns have been tested and reduce the risk of film and seal failure.

Form-fit construction gives you high performance results in a shipping and storage container and can actually reduce your overall shipping and storage costs.

Thermal Impulse Sealing

Guardian heat sealing equipment utilizes state-of-the-art thermal impulse technology. Thermal impulse is a five step heat-sealing process that results in airtight, stronger and aesthetic seals. In the process, two patterns of flexible film are joined by

- 1) arranging the pre-cut forms flat and secure against a sealing platen,
- 2) a cold sealing die applies high pressure and flattens the materials together compressing all air tunnels out,
- 3) heat is applied at a precise temperature and dwell time to optimally join the two components,
- 4) the seal is then cooled under pressure which eliminates shrinkage and maintains a consistent thickness of the joined materials,
- 5) pressure is released after the seal has cured and is ready for handling.

Guardian liners utilize this superior technology to give you the high performance you deserve in a limited use packaging product.



Thermal Impulse Seals are more durable and have greater integrity than constant-heat seals. Guardian liners are constructed with seals at strategic locations to prevent seal stress failures.



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