

# Smurfit Kappa North America

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# A one-stop shop for packaging



# Services

## What we do in the U.S. and Mexico

- Innovators in Near Shoring
  - J.I.T Model
  - Warehouse
  - On site Staff
  - Range of Solutions
  - Full-Service Offer
- Specialties & MRO (One Stop Shop)
- Supply Chain Analysis
- Lab Testing & Certifications
- Full R&D Packaging Service
- Dedicated Packaging Engineers
- Advanced Marketing Tools
  - Store Visualizer
  - Eye Tracking
  - 3D Simulation

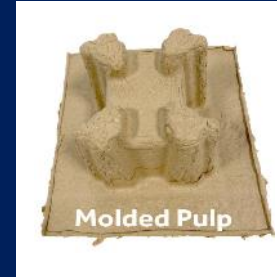
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# Distinguished portfolio with market-leading innovations

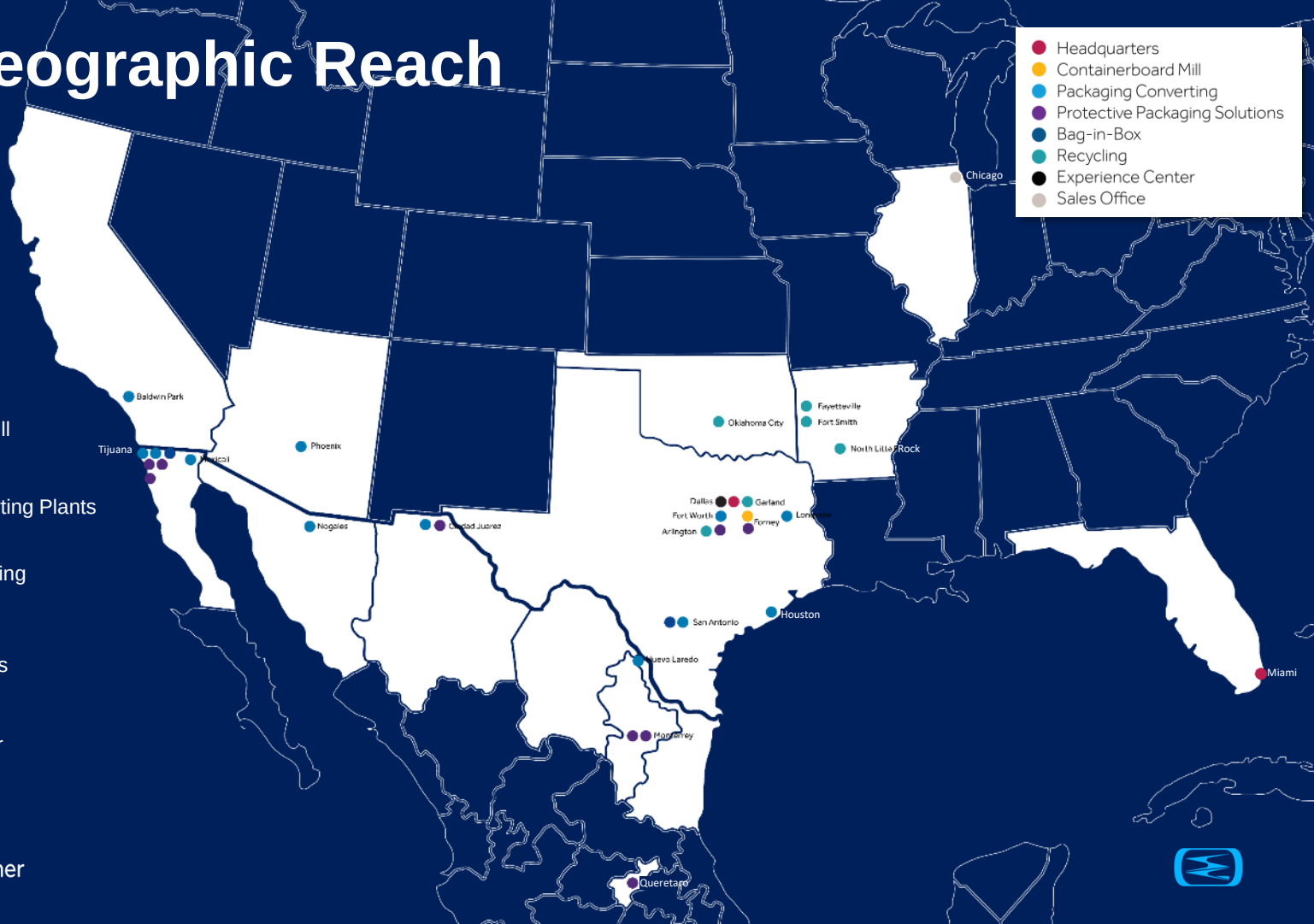




**1,300+**  
Customers

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- Headquarters
- Containerboard Mill
- Packaging Converting
- Protective Packaging Solutions
- Bag-in-Box
- Recycling
- Experience Center
- Sales Office







# Better Planet Packaging

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# Certifications

## Environmental / Forestry



- Forney Mill
- Forney Coatings
- Forney Converting
- Baldwin Park
- Phoenix
- Forth Worth
- Long View
- Houston
- San Antonio
- Tijuana Corrugados
- Mexicali
- Folding Carton
- Nogales
- Nuevo Laredo
- Juarez
- Tijuana PS
- Monterrey PS
- Honeycomb MTY
- Honeycomb Queretaro



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- Forney Mill



- Forney Mill
- Tijuana Corrugados
- Fort Worth



- Forney Mill

## Quality



- Baldwin Park
- Long View
- Houston
- Tijuana Corrugados
- Folding Carton
- Nogales
- Juarez
- Nuevo Laredo
- Tijuana PS
- Juarez PS
- Monterrey PS
- Honeycomb MTY
- Honeycomb Queretaro

## Food / GMP



- Forth Worth
- Long View
- Houston
- San Antonio



- Coatings Forney
- Folding Carton
- Mexicali

## Safety



- Forney Mill



# Honey Comb

Querétaro • SKNA

Noviembre 2023

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 Smurfit Kappa

  
Honeycomb

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 Smurfit  
Kappa

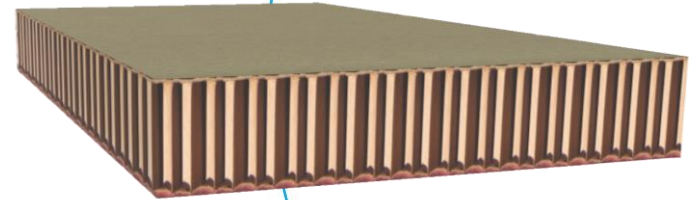
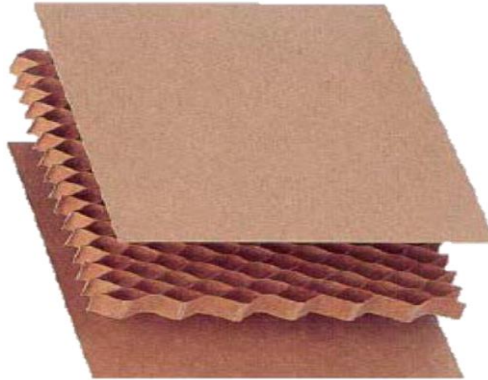
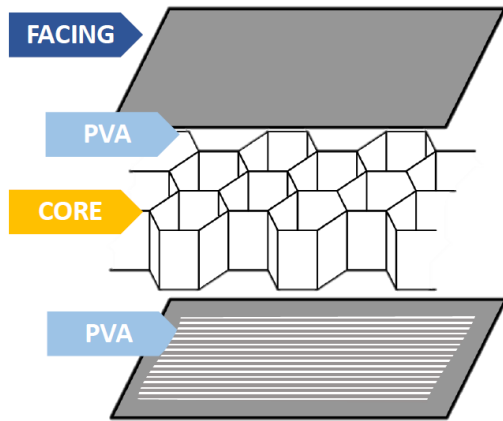
  
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# TEAM



# ¿Qué es el Honeycomb?

- Material tipo sándwich a base de papel compuesto por:  
2 facings
- Core: núcleo de celdas hexagonales hecho a base de papel.
- 2 capas de pegamento blanco PVA (Acetato de Polivinilo)

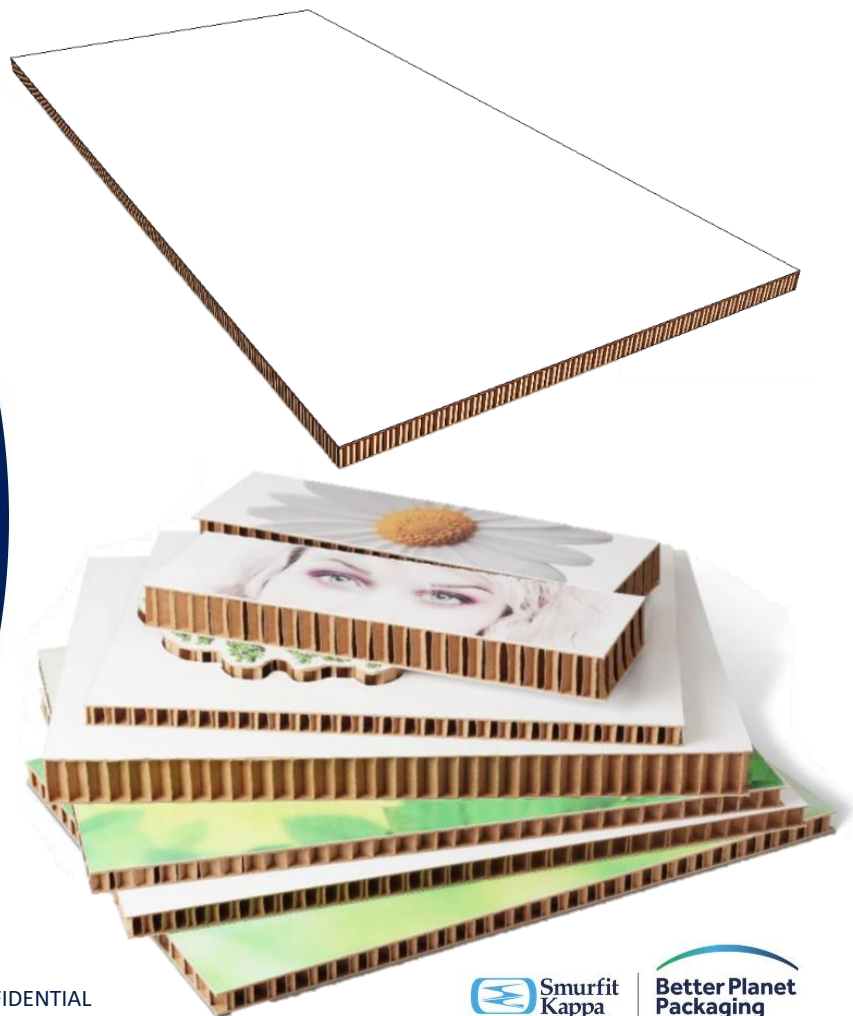




# Print Board

Una solución sostenible para su marca y publicidad

- No se necesita tratamiento térmico
- 60% más ligero que los paneles de MDF
- Placa rígida, totalmente reciclable
- Manejo seguro
- Señalización Interior y puntos de venta.
- Aprobado por FSC (Forest Stewardship Council®)



# Print Board

## Ventajas

- Impresión directa al sustrato.
- Producto sustentable y reciclable.
- Diseño a la medida de las necesidades de peso, almacenaje y logística del cliente.
- No requiere de tintas especiales.
- Buena expansión de tinta.
- Disminuye el efecto de bandeo.
- Se adapta a los sistemas de impresión de cama plana (Digital single y multipass, Serigrafía).
- Sustituye a las espumas tradicionales.



# DIGITAL

Printboard / Displays



Initiative / Samples

HC Logo selection



Print tests



Spec:

- 13.5 mm / 0.5 In
- 1800 x 2000 mm / 71 x 79 In
- White / Kraft

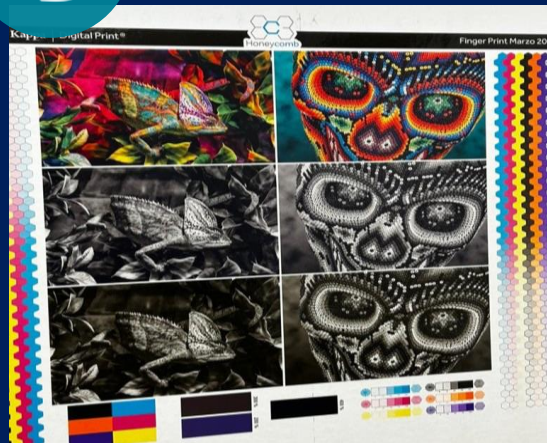
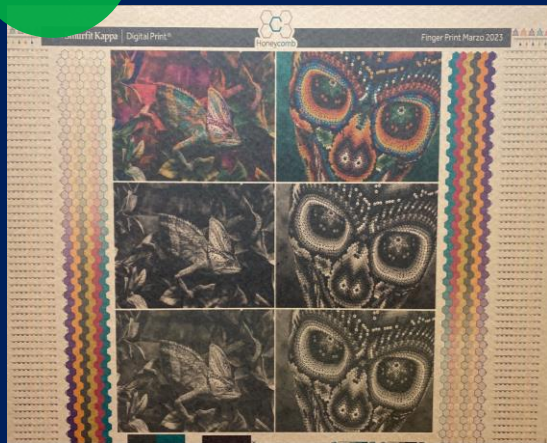


Business Inter / Direct



# Examples of different types of digital printing in HoneyComb

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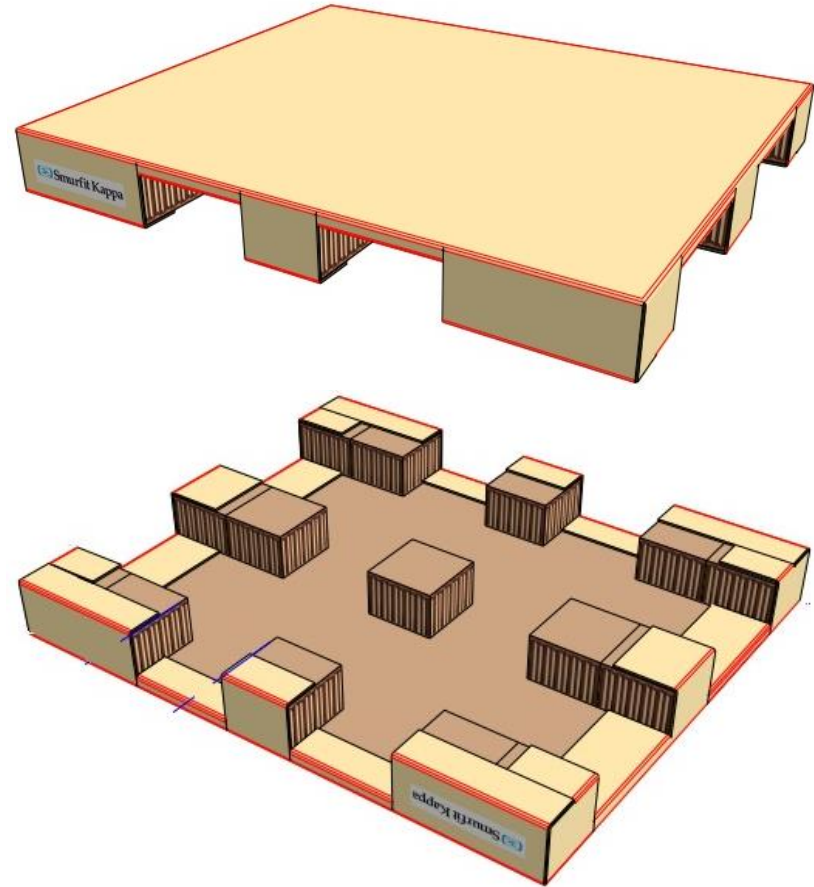
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# Honeycomb Pallets

Una solución sostenible para su cadena de suministro

- No se necesita tratamiento térmico o de insectos
- 83% más ligero que los pallets de madera
- Menos pérdida de carga
- Manejo seguro
- Sin astillas



# Honeycomb Pallets

## Ventajas

- Reducción del costo de distribución.
- Producto sustentable y reciclable.
- Diseño a la medida de las necesidades de peso, almacenaje y logística del cliente.
- Disminución de daños de su producto por defectos de clavos o astillas.
- Por ser una superficie plana, funciona como difusor de carga.
- Cumple con las normas de la FDA y no requiere tratamientos o sellos adicionales para exportación.
- Aceptada internacionalmente.

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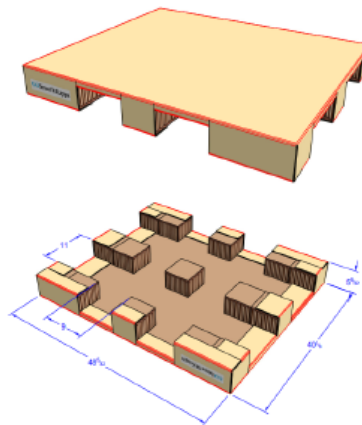
QUERÉTARO

PRODUCT CODE Z672471

HONEYCOMB PALLET SK1 Z672471 DE 40" X 48" X 5"

### DESCRIPTION

Our standard size of the paper pallet is 40"x48"x 5". The top deck is manufactured by a honeycomb with a 3/4" of thickness and protected by a sized paper board ideal to counter the humidity giving it competitive characteristics in the market. This product is accessible, certified in an external laboratory (3), it's environmentally friendly, recyclable(2), safe, economic, humidity resistant (5), firm, and lightweight.



### DATA SHEET (1) (3)

|                    |                                   |
|--------------------|-----------------------------------|
| Width              | 40.125"                           |
| Length             | 48.156"                           |
| Height             | 5.156"                            |
| Static Load        | 3000 KG                           |
| Dynamic Load       | 1500 KG                           |
| Weight             | 3.7 KG                            |
| Heat treatment     | Exempt (4)                        |
| Fumigation         | Exempt (4)                        |
| Exportable (4)     | Complies with regulations ISPM-15 |
| TRANSPORT          |                                   |
| PALLET             | 15 pzs                            |
| Truck 22.5ft       | 300 pzs                           |
| Trailer truck 53ft | 780 pzs                           |
| Tolerances         |                                   |
| Length             | 0.25" +/-                         |
| Width              | 0.125" +/-                        |
| Thickness          | 0.030" +/-                        |

### IMPORTANT DATA

1)The pallet strength data are for reference only and are based on laboratory tests carried out according to the criteria of the Packaging Design Innovation Center and internal quality criteria. They were performed homogeneously load distribution, unified load, and controlled environmental conditions.

2) Made with 100% recycled raw materials. SK1 Z672471 is fully recyclable and complies with FSC MIXED and FSC RECYCLED certifications.



3) Endorsed by the ABRE center of the University of Monterrey. Document LAB 08 0045 22



4) Product is exempt of heat treatment and additional fumigation for export, according to the International standard ISPM-15



5)The SK Z672471 is made with a sized paper board and meets 30-40 COBB of the TAPPI T441 COBB test.



# SK1

**Smurfit Kappa**

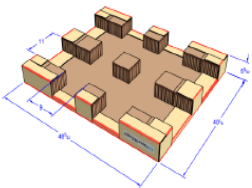
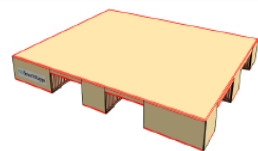
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**Smurfit Kappa**

**Better Planet Packaging**



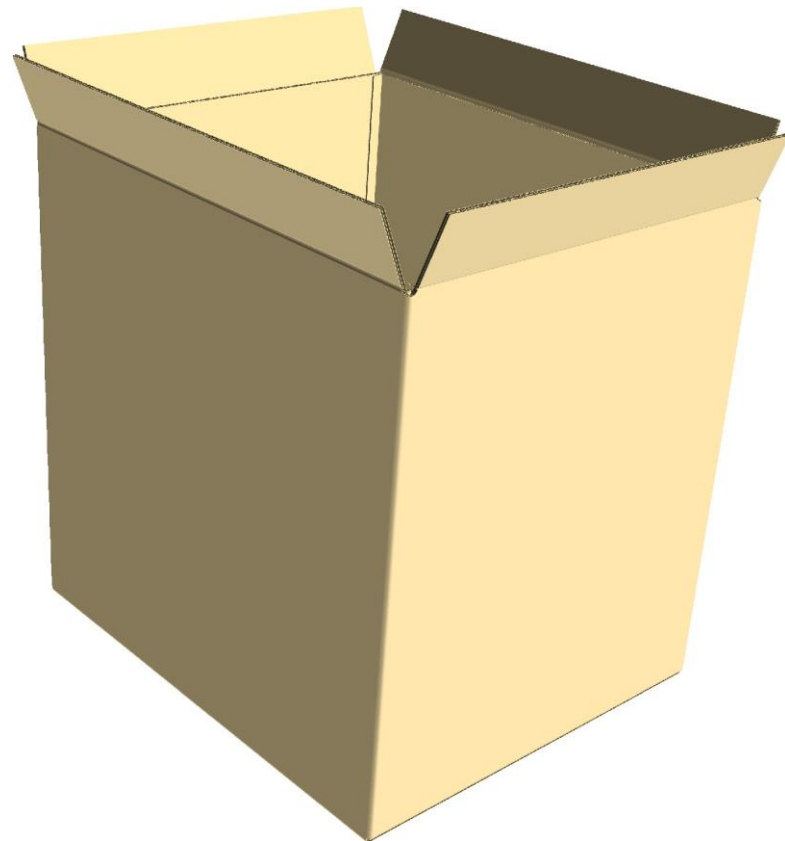
# Gaylord

## Una solución sostenible para su cadena de suministro

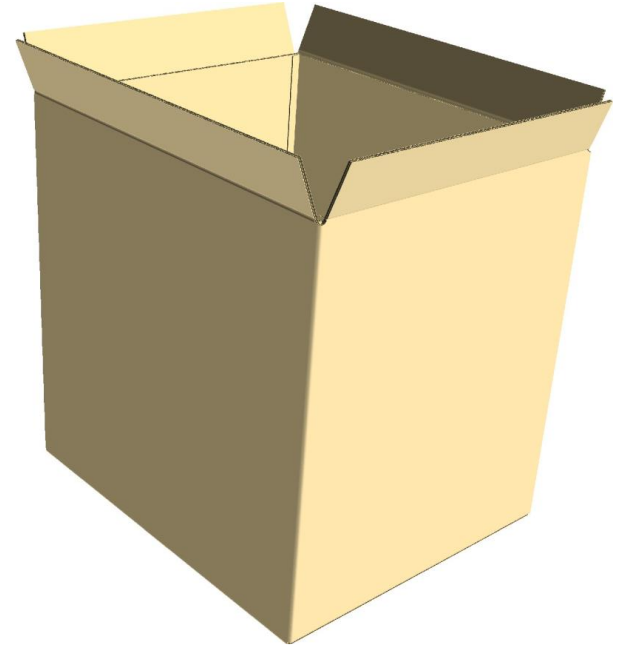
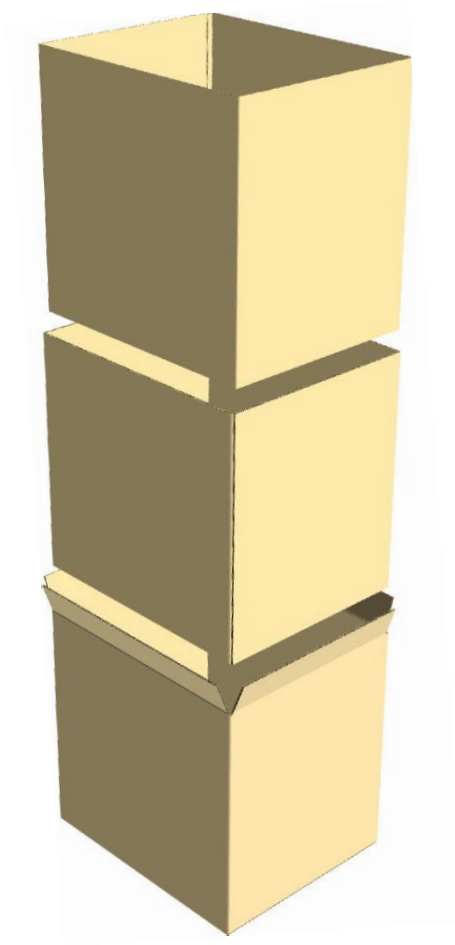
- Gran capacidad de almacenar y transportar grandes cantidades de producto a granel.
- Asegura una carga vertical sencilla.
- Extremadamente durables.
- Doble o triple pared.
- Carga Total 1.6 Ton.
- Hasta 20 vueltas.
- Materiales granulares
- Polvos
- Preformas
- Líquidos

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# Gaylord



# Dunnage

Una solución sostenible para su cadena de suministro

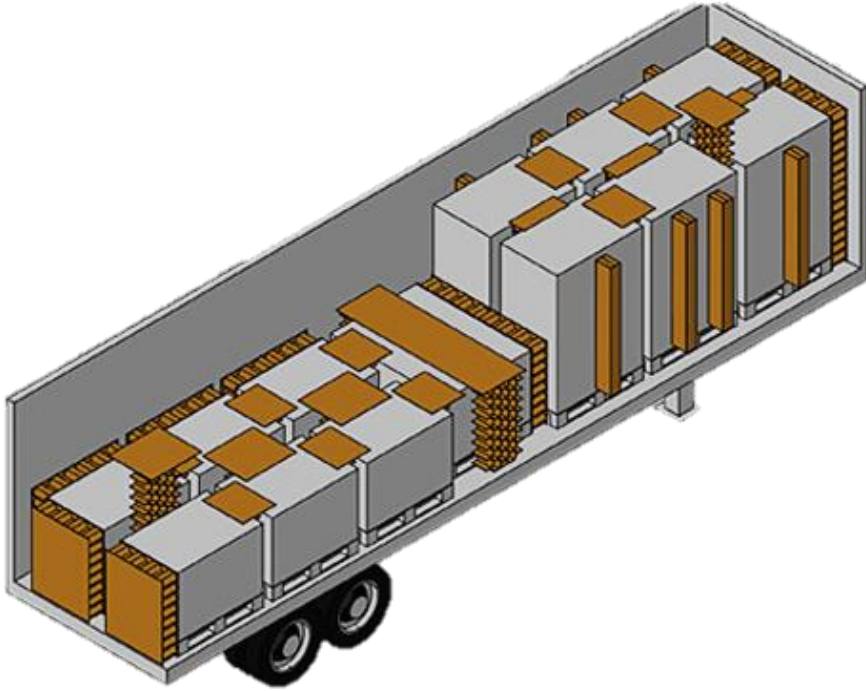
- Llena un espacio para asegurar un objeto a transportar sin que este se mueva o se dañe.
- Su uso es principalmente para bloqueo de carga.





# Dunnage – Bloqueo de carga

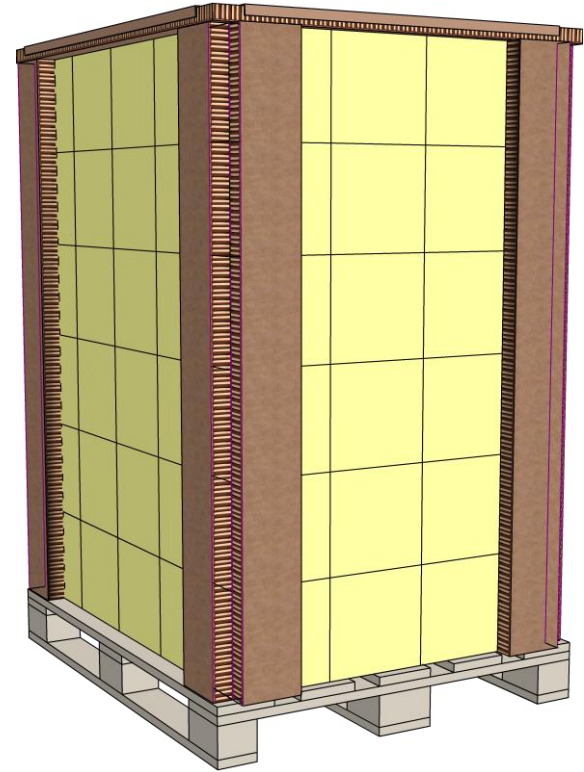
## Ventajas



# Esquineros

Una solución sostenible para su cadena de suministro

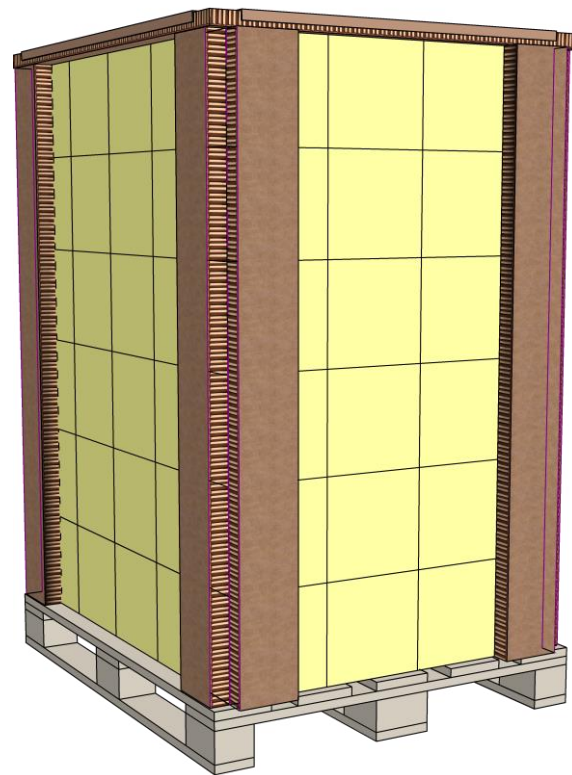
- Evita costosos daños por deformación o colapsamiento de embalajes durante los traslados.
- Realiza la función de amortiguador, entre los pallets de la carga.



# Esquineros de protección

## Ventajas

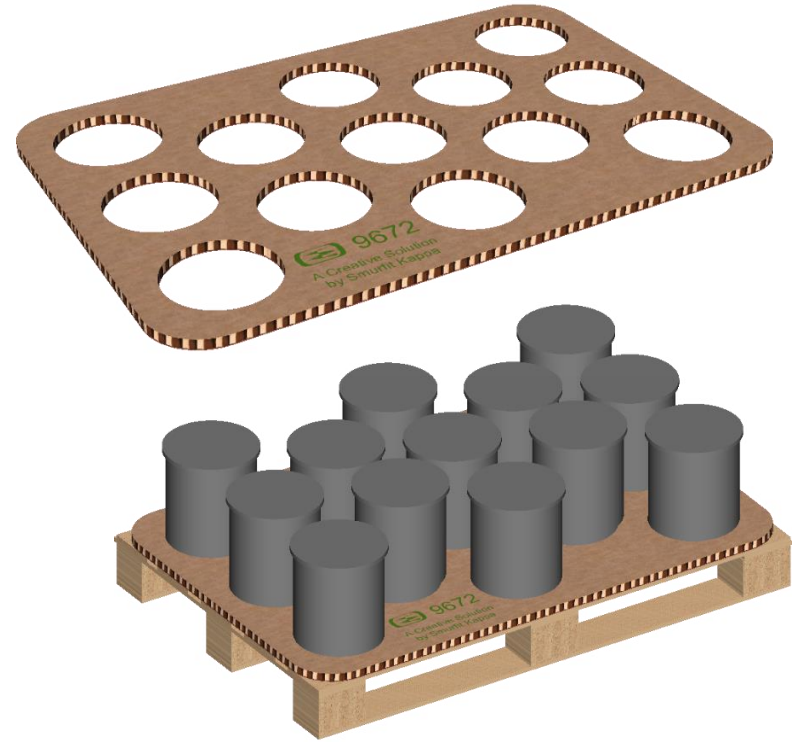
- Accesorios de embalaje que mejoran la resistencia contra la vibración y tensión, y reducen daños por golpes en la mercancía.
- Evita que las cajas se deformen o colapsen y pierdan su estructura.



# Panel Troquelado

Una solución sostenible para su cadena de suministro

- Estabilización y sujeción de producto.
- Uniformidad en tarima.





# Panel troquelado



**Botella**



**Envase**



**Bobinas**



**Bobinas**

# ToppSafe™

Una solución sostenible para su cadena de suministro

- TOPPSafe™ es una solución 100% a base de papel diseñada para brindar seguridad tanto al usuario como al cliente, además de ser un sustituto de la madera reciclable y sustentable.



# ToppSafe™

## Ventajas

- TOPPSafe™ consiste en una placa Honeycomb reforzada con esquinas de cartón sólido para soportar fácilmente la presión del flejado.
- Esta cubierta de Tarima, estabiliza la mercancía y evita que se desplace durante el transporte. Además, también sirve de protección para los productos colocados encima del pallet, evitando que se dañen.
- La propuesta de Honeycomb hace que TOPPSafe™ sea tan resistente como las alternativas tradicionales de madera o plástico.

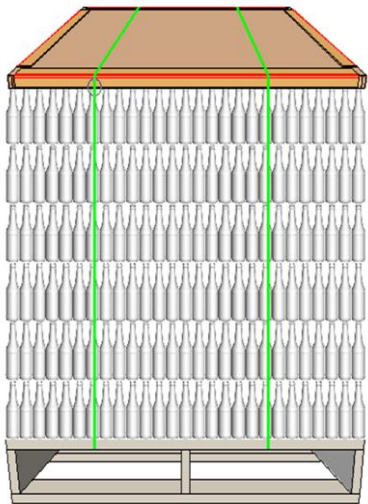


# ToppSafe™





# ToppSafe™



## ▶ Marco de madera o plástico

- Requiere administración de retornos
- Puede tener astillas



# Success Stories TOPIG'S NORSVIN

## THERMOBOX



### Challenge

- Replace EPS and avoid plastic
- Maintain insulation properties
- Adhere to new laws & regulations



### Approach

- Combination of corrugated and Hexacomb
- Base, lid and sides made from Hexacomb
- Thorough Supply Chain testing
- Insulating performance: better than EPS!



### Result & impact

- Improved sustainability image
- Flexibility in sizes without high investment
- Less storage space needed = cost saving

**"Great Results with the Thermobox Solution."**  
Eng. Denisse Maldonado  
Genetic Manager México

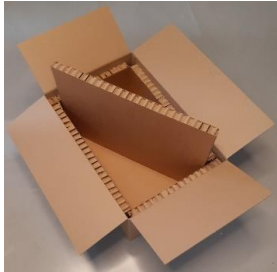
**Improved sustainability image**

**Flexibility & less storage space**

Old



New



Topig's Norsvin Semen Transportation Thermobox, give more healthy and cooler the Semen and Vaccine, during the transportation.

Smurfit Kappa ThermoBox is an innovative 100% paper-based solution that keeps frozen and chilled goods fresh throughout the supply chain. Due to the corrugated outer, ThermoBox is fully customizable and an ideal solution for eCommerce.



# Bag In Box (BIB)

Una solución sostenible para conservar su producto

- Prolongar la vida útil de los alimentos líquidos o semilíquidos.
- Fabricada con cartón corrugado, la caja exterior proporciona una excepcional protección durante el transporte.

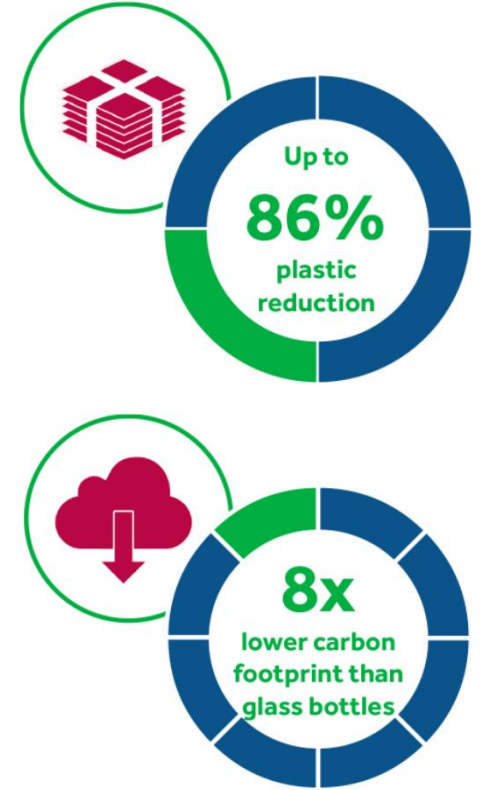


# Bag In Box (BIB)





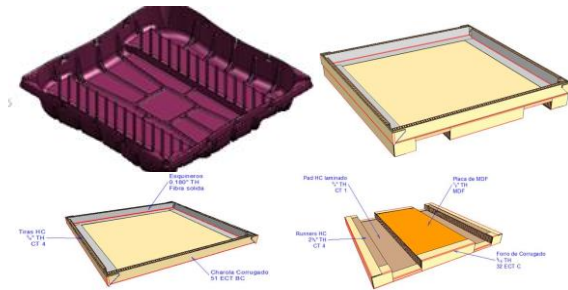
# Bag In Box



## Current Honeycomb Querétaro Projects



# Honeycomb BRP



## Honeycomb die cut tray

Kellogg Toluca | Linares

The issue is the plastic tray since import it from USA & to returning it, is a process very tedious.



## Palletization Kit

## G Pack Querétaro

We work for a solution to eliminate the pain in the pallet, because your product was damaged at the point of sale.



# Honeycomb base instead of EPS – Mabe Refrigerator



Customer uses EPS in the base of their products for assembly and shipping

- SK Qro developed a Honeycomb base for a sustainable and functional solution
- The design features a corrugated tray and Honeycomb die-cut pad
- Designer Julio Cruz – Honeycomb Queretaro



## Packaging for Mechanical Seals, The customer wants to decrease their expanded Polystyrene



- Our customer *Eagle Burgmann* needs a packaging that keeps their Seals without movement. They also want to move to 100% sustainable and recyclable packaging. Before, they had Extended polystyrene.

- We offered a proposal to help our customer transition to recyclable packaging: honeycomb with a cookie cuts and punch cuts.
- The packaging has been designed with the objective of maintaining the diameters requested by the customer, so that the mechanical seals remain in good condition and without movement during transportation to the point of sale.
- Additionally, with our solution, each piece that we deliver replaces two pieces of current packaging.
- Designed by: Julio Cruz



# PALLET SUPPORT FOR PAPER ROLLS

Better Planet  
Packaging



We develop a Honeycomb solution with wood that helps to reduce the damage of the paper rolls



Reduce of  
polyethylene  
strapping



Less use of  
wood.



No metal Nails



20,400kg of  
plastic reduced  
per year

Before, our customer *ITASA AMERICAS* was using wood pallets, with wooden supports that damage the paper rolls

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Designer: *Julio Cruz / HC Querétaro*

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