



Make quality everything
Apex[®]
Quality Polymer Solutions

Layer Board Solutions

Apex[®] Polymer Solutions (Pty) Ltd*

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**Previously trading as Perspex SA*

The Importance of using Layer Boards

Enhancing Load Stability:

- Effectively divides & secures layers of products
- Minimizes risk of movement during transit
- Prevents costly damages caused by load shifting during transit and reduces the likelihood of accidents

Protecting against Mechanical Damage:

- Safeguarding packaged goods from mechanical damage during transportation, minimizing breakage, and preserving product quality.
- Forms a protective barrier against such vibrations, shocks and uneven surfaces by providing an added layer of defence in a dynamic shipping environment.



The Importance of using Layer Boards

Improved Space Utilization:

- Optimises space utilization within cargo loads. Goods can be stacked closer together, thus making more efficient use of valuable transport space.
- Contributes to significant cost savings in terms of reduced transportation expenditures.
- Increased cargo density results in fewer shipments, ensuring minimized environmental impact.

Ensuring Product Identification:

- Serve as a labelling platform for easy product identification during transportation.
- Streamline product tracking and reduce logistical errors.
- This simplification of the identification process aids in efficient sorting, loading, unloading, and delivery at each stage of the transportation chain.



The Importance of using Layer Boards

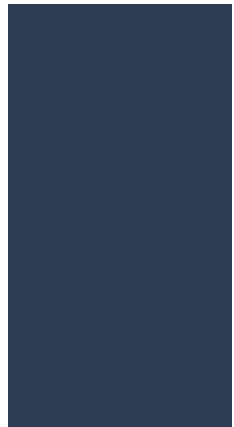
Promoting Sustainability:

- Integrating interlayer boards into pallet packaging aligns with sustainable practices and reduces waste.
- These boards often consist of recyclable materials like polypropylene, which are easily recyclable at the end of their lifespan.
- The use of such eco-friendly solutions not only mitigates the environmental impact caused by excessive packaging materials but also enhances a company's image as a responsible and sustainable business entity.





OUR OFFERING



Polypropylene Layer Boards

Polypropylene Homopolymer (PPH)

- Your Essential Packaging Partner



Apex Polymer Solutions' Polypropylene Homopolymer (PPH) is locally manufactured and has excellent physical characteristics, particularly for applications where stiffness and high heat resistance are important.



PolyAl & HDPE Blend Layer Boards

PolyAl - born from -
Tetra Pak long-life cartons:

- 6% bioplastic cap - biodegradable
 - 75% cardboard - recycled into paper products
 - 14% plastic
 - 5% aluminium
- } Bound together, called "Polyaluminum" and cannot be separated



...it takes **4 049** post-consumer 1L long-life liquid cartons to produce **ONE** sheet of PolyAl?

That's 4 049 fewer containers destined for landfills!

HDPE - High-Density Polyethylene

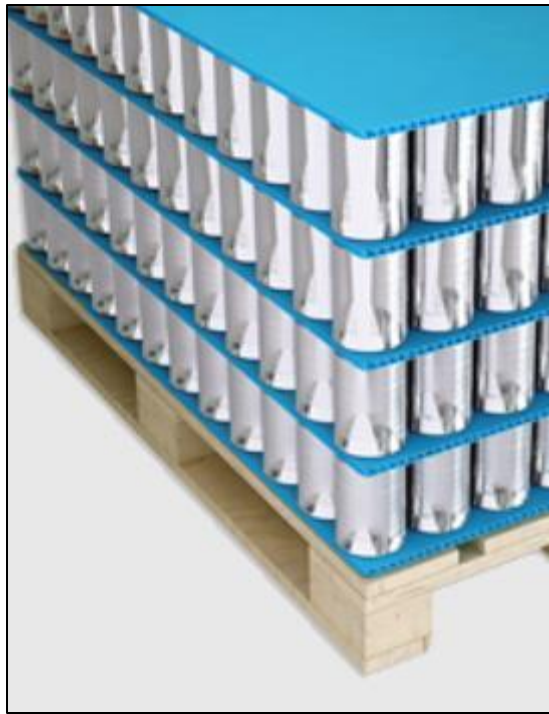
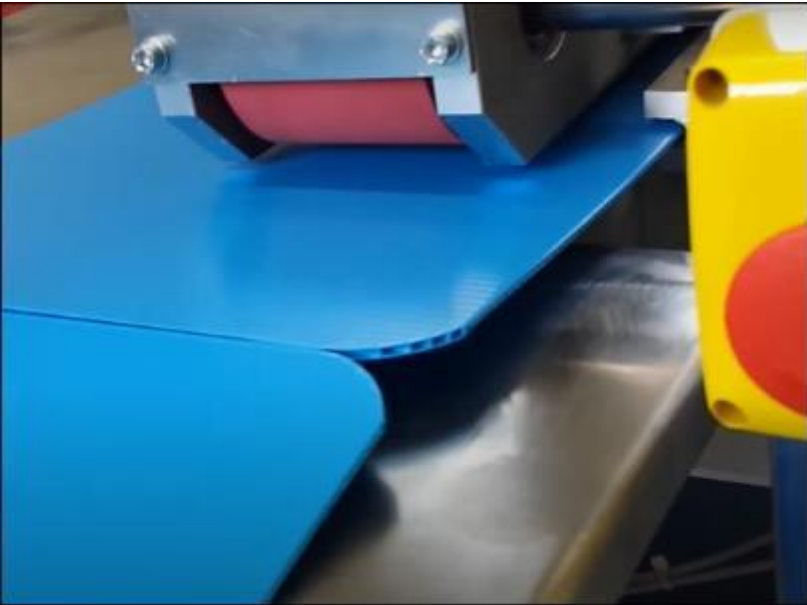
- LOCALLY manufactured
- High-density polyethylene is a polyethylene thermoplastic made from petroleum
- HDPE has little branching, giving it stronger intermolecular forces and tensile strength
- HDPE can withstand somewhat higher temperatures (120 °C for short periods, 110 °C continuously)
- HDPE contains the chemical elements carbon and hydrogen.
- Common applications included Bakkie liners, packaging, the automotive industry, dam linings and tank construction.



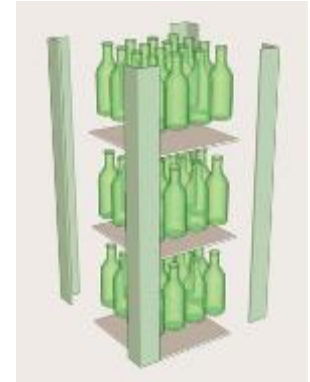
Twinwall Polypropylene Layer Boards

COMING SOON

Apex
X-Core[®]



- Contributes to your sustainable development goals due to it being recyclable and eco friendly
- Up to 30% cost saving when compared to other materials
- Considerably more robust and resistant to damage than wood-or paper-based dividers
- High co-efficient of friction for tighter packaging
- Much longer operational lifespan compared with wood or paper-based dividers
- Less likely to lose strength due to absorption of ambient moisture
- Hygienic - no shavings or dust
- Chemical resistant



Why use our layer boards?

LOCALLY  MADE



Weather &
Impact
Resistant



Easy to
convert (die-
cut, weld,
staple, glue)



Customisable
look & finish
(colour,
printing, grain
finish, size,
weight)



100%
Recyclable at
the end of its
useful life



Rigid &
Lightweight

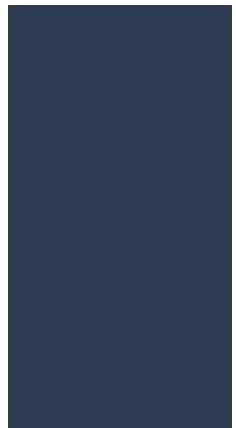


Optional
Additives: Anti-
static,
Electrostatic
Discharge (ESD),
Flame Retardant,
UV, Corona



Make the change Today!





Layer Boards

