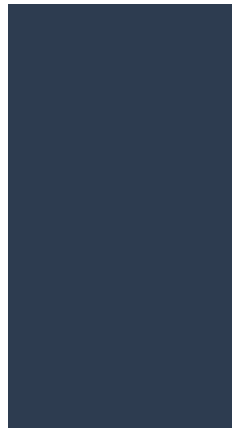




LAYER
BOARD
sOLUtions



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 -

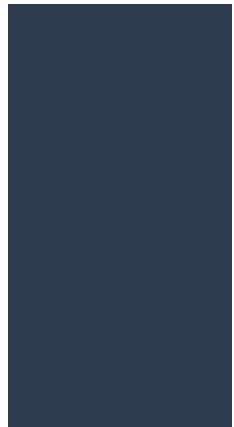
Promoting Sustainability:

- 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.





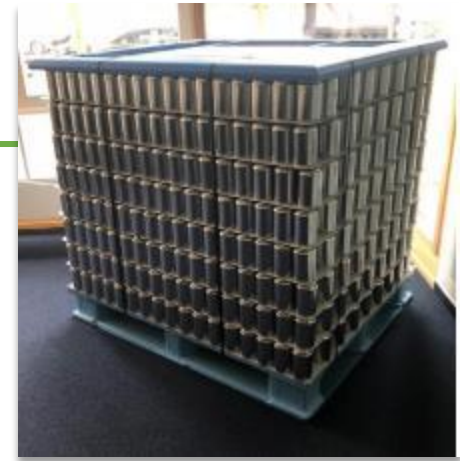
OUR OFFERING



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

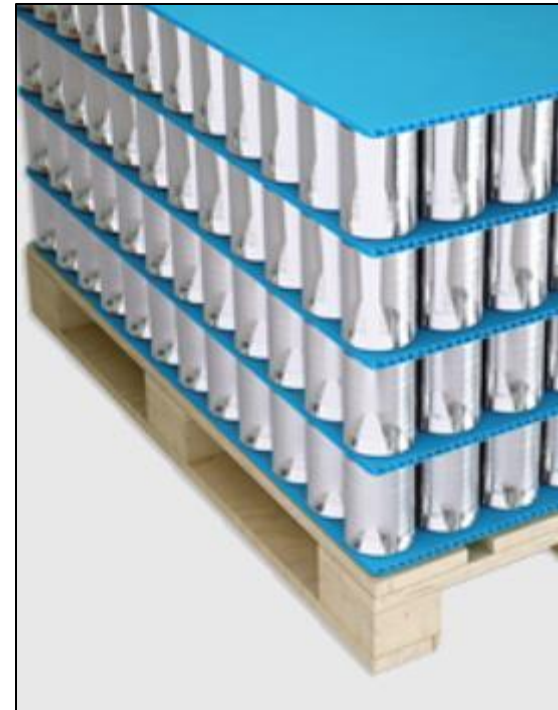
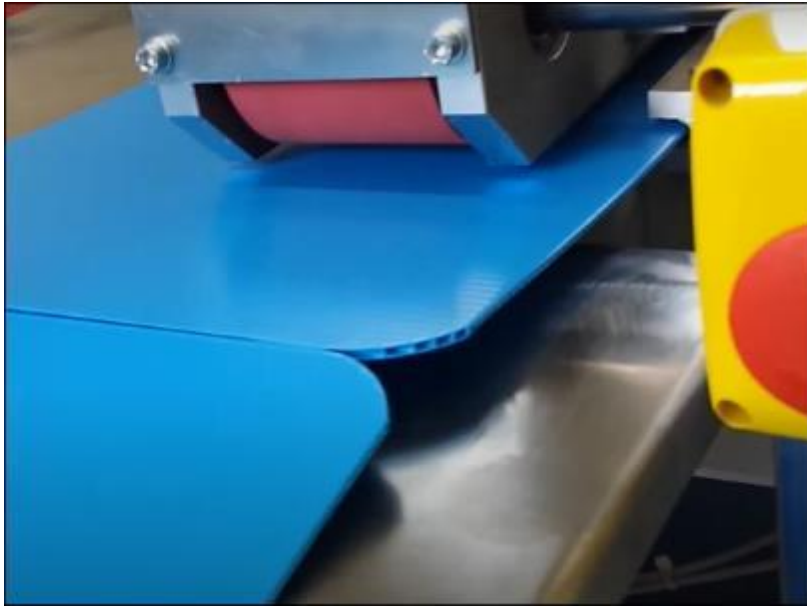
- **LOCALLY** manufactured
- High-density polyethylene is a polyethylene thermoplastic made from petroleum
- HDPE has little branching, giving it stronger intermolecular forces and tensile strength
- HDPE can withstand somewhat higher temperatures (120 °C for short periods, 110 °C continuously)
- HDPE 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

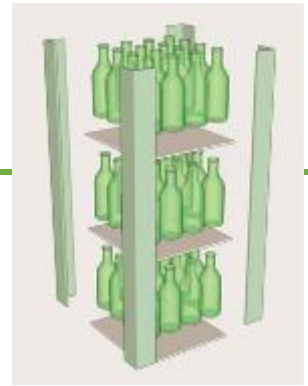
COMING SOON

Apex
X-Core[®]



Why use OUR Layer Boards?

- 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!





Questions?
Thank
You

