Warehouse Partners

Labeling and Warehouse Solutions

PALLITE® PIX®

TECHNICAL DATA BOOKLET

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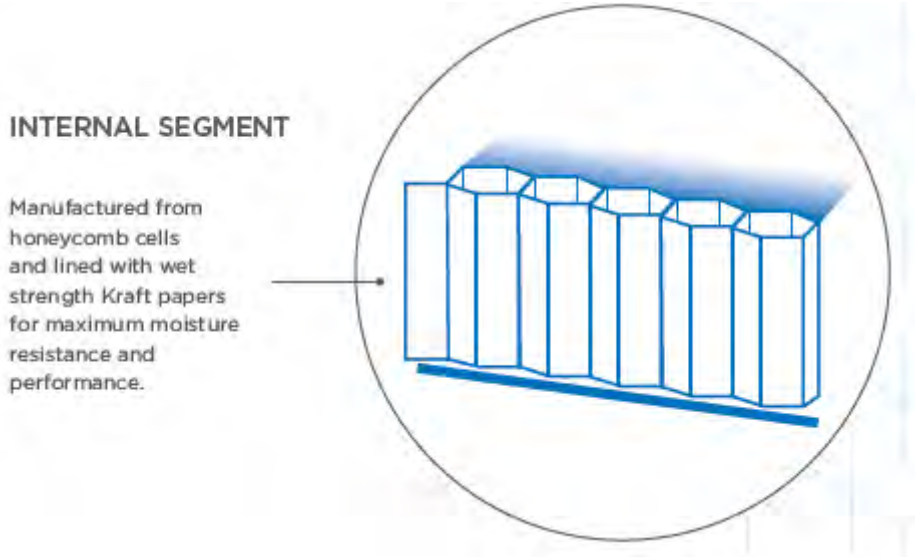
SCIENCE BEHIND PALLITE® PIX®

Honeycomb Fibre Cells

Paper cells resembling honeycomb are used to add strength. Honeycomb is a recognised construction technology found in furniture, car parcel shelves, doors, exhibition stands and points-of-sale, but PALLITE® was the first to bring it to the warehouse racking and shelving market. Formed out of 100% waste-based test liner, these simple cells are the key to PALLITE®'s innovative, engineered design and high-performance products.



Kraft Liner

The honeycomb cells are laminated to layers of wet-strength Kraft paper - which is made from 70% pulp and 30% pre-consumer waste - using PVA glue.

Adhesives

All of the components that make up PALLITE® PIX® products are laminated together and assembled using PVA glue. Water-based and cleared by the FDA for food contact, PVA is widely accepted by the food and pharmaceutical sectors, and regularly used in most packaging sectors. We also use hot-melt adhesive to hold the sub-frame bearers of the PALLITE® pallet to the honeycomb top deck. Made from synthetic polymer and resin, this form of adhesive has also been cleared by the FDA for food contact.

MATERIAL SAFETY

All materials used in the PALLITE® PIX® range are non-hazardous, non-toxic and biodegradable. However, listed below are standard safety protocols that should be followed in the unlikely event of any harmful exposure.

First Aid Measures

Inhalation

Due to the nature of the product there may be instances where material dust may be inhaled if this occurs:

- Move to fresh air, consult doctor if complaint persists

Skin Contact

- No precautions required

Eye Contact

- Rinse immediately with plenty of running water, seek medical advice if problem persists

Ingestion

- Rinse mouth, drink 1-2 glasses of water, do not induce vomiting

Firefighting Measures

The PALLITE® PIX® is not combustible, however the material used is flammable.

The corners of the product may char, smoke and smoulder.

The adhesives used do not contain any flammable substances, that will accelerate the burning process.

In the eventually of our products burning or smouldering, there are no toxic emissions other than carbon dioxide.

Suitable extinguishing media:

- All coming extinguishing agents are available

Extinguishing media which must not be used for safety reasons:

- High pressure waterjet

Advice for fire fighters:

- Wear protective equipment

Ventilation

PALLITE® PIX® can be constructed to include “vents”, these are drilled holes located at the top of the unit.

Benefits include:

- Depending on the environment, vents will discourage damp and mould, especially where steam often circulates and settles as condensation
- In the event of a fire, vents will prevent the build-up of carbon monoxide ,
- In the event of a sprinkler system being triggered, the ventilation openings will also allow easy water access extinguishing flames.

ENVIRONMENTAL CAPABILITIES

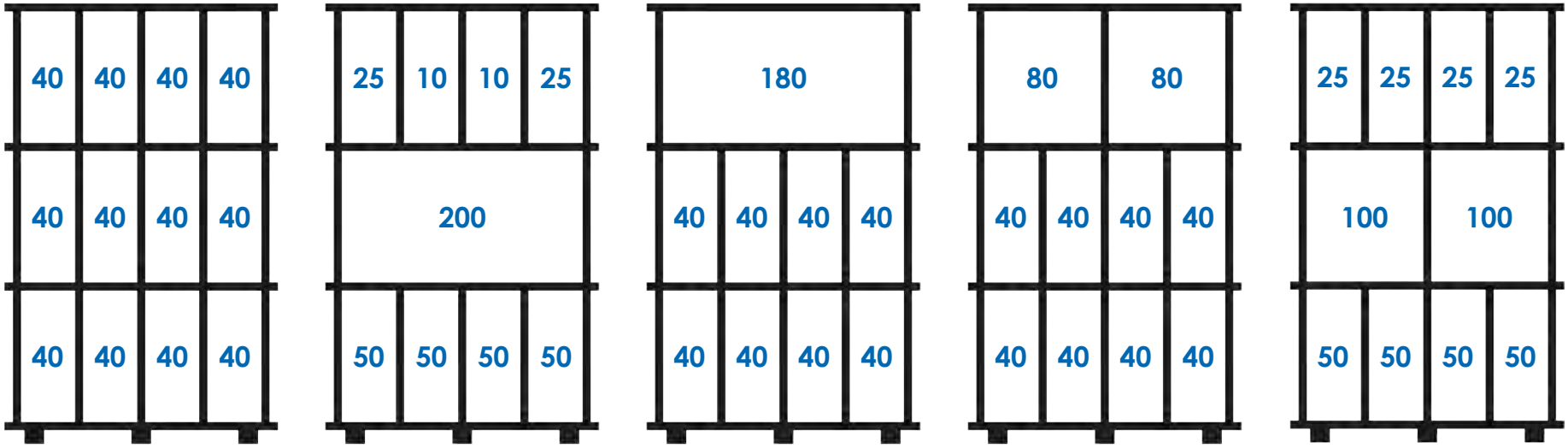
Due to the nature of the material used it is not advisable to expose the PALLITE® PIX® products to prolonged periods of water. This will cause the material to turn into a pulp and deteriorate the integrity of the product.

Should the PALLITE® PIX® be exposed to water or moisture, ensure the product has dried out thoroughly before attempting construction or loading/unloading.

However, the material used for the PALLITE® PIX® has been tested using an environmental chamber. This testing replicated a 24-hour cycle in an extreme environment of 38oC and 85% relative humidity.

The results for the environmental test, showed that there was no significant detriment to the product when being used in these environments.

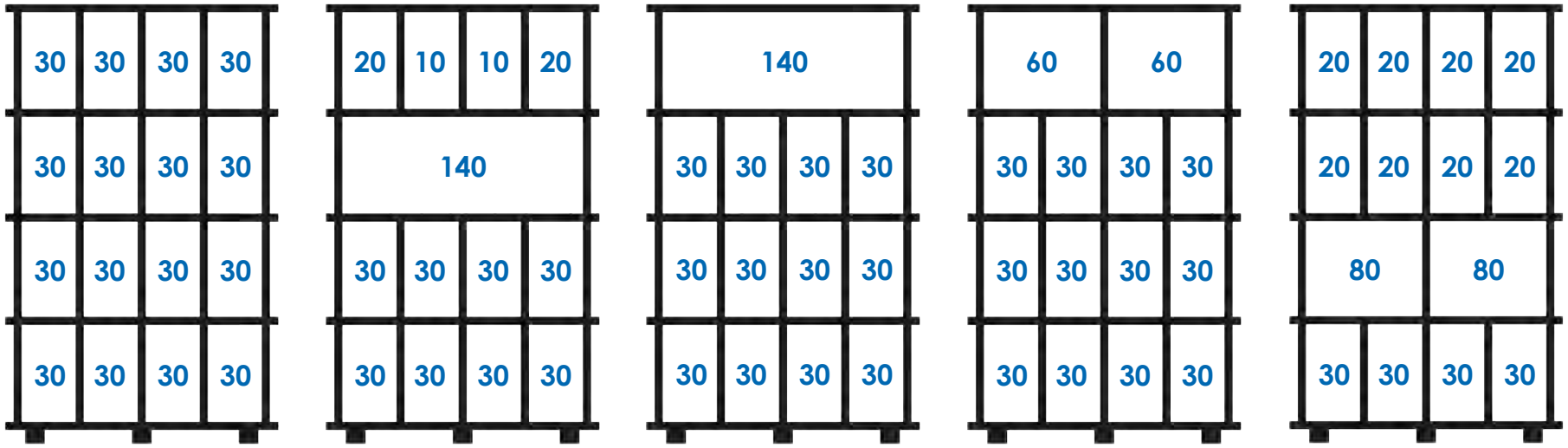
SAFE WORKING LOADS
PALLITE® PIX STORAGE 12



*Numbers refer to weights in kilograms
Maximum capacity for all pick-faces combined - 500kg
*Where 40kg is shown in a single pickface, this can be increased to up to 50kg as long as the total weight in the whole unit does not exceed 500kg

ADVISORY NOTICES:
- Do not double stack
- Do not store product on top of unit

SAFE WORKING LOADS
PALLITE® PIX STORAGE 16



*Numbers refer to weights in kilograms
Maximum capacity for all pick-faces combined - 500kg
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QUALITY

Product Shelf Life

The longevity of the product is dependent on the rate of assembly, manoeuvring and re-construction.

A static PALLITE® PIX® is guaranteed for two years but is expected to last for many years after that.

A static unit is defined as a PALLITE® PIX® unit that is constructed, moved and re-constructed a maximum of 10 times.

Should a PALLITE® PIX®® product be constructed more than this, it may impact on the fold element of the unit.

The guarantee relates to the fold in the sleeves which have been tested up to 500 times before showing signs of stress.

The product guarantee is to be used in conjunction with the weight limits supplied in section: Safe Working Loads. Should these limits not be adhered to, the product could be damaged, and may also increase the risk of a health and safety incident.

Should a part be damaged or need replacing, sub-assemblies can be supplied.

Replacements

Due to the nature of the material and adhesives, the product should not de-laminate. This is due to the polymers (adhesive particles) joining the paper layers.

However, it is understood that if there is general wear and tear of the product, through general handling, the sub-assembly components will be replaced.

If there is evidence of poor handling or construction, a review of the replacements will be required, where a charge may be incurred.

Material Handling

The PALLITE® PIX® is designed to be manoeuvred around a shop floor easily.

To keep the PALLITE® PIX®'s integrity, ensure that the lifting/moving device is correctly placed between the entry of the PALLITE® PIX® base. This will safeguard against damage to the base.

Should damage occur, the PALLITE® PIX® weight distribution will become unstable, causing the PALLITE® PIX® to become unusable and potentially unusable. In the event, contact PALLITE® for a replacement part or review of the product.

ISPM 15 Status

The material used for PALLITE® PIX® is ISPM 15 exempt.

This means that when shipping internationally, the product will pass between countries without the need for certification.

Our ISPM 15 exempt status is due to the manufacturing process eliminating any risk of insect contamination. The paper process heats pulp to beyond boiling point, removing all forms of biological contamination. The reels of paper are wound tight, preventing any infestation of insects.

Quality and Testing

The raw materials and sub-components used to construct the PALLITE® PIX® range, undergo rigorous quality testing. This includes, but not limited to:

- Water absorption rate (Cobb Value)
- Board stress and deflection
- Weight load capacity
- Enhanced environmental simulations

The PALLITE® PIX® warehouse solution is manufactured and tested in an environment that utilises the frames works of ISO9001:2015 (Quality Management) and ISO14001:2015 (Environmental Management).

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