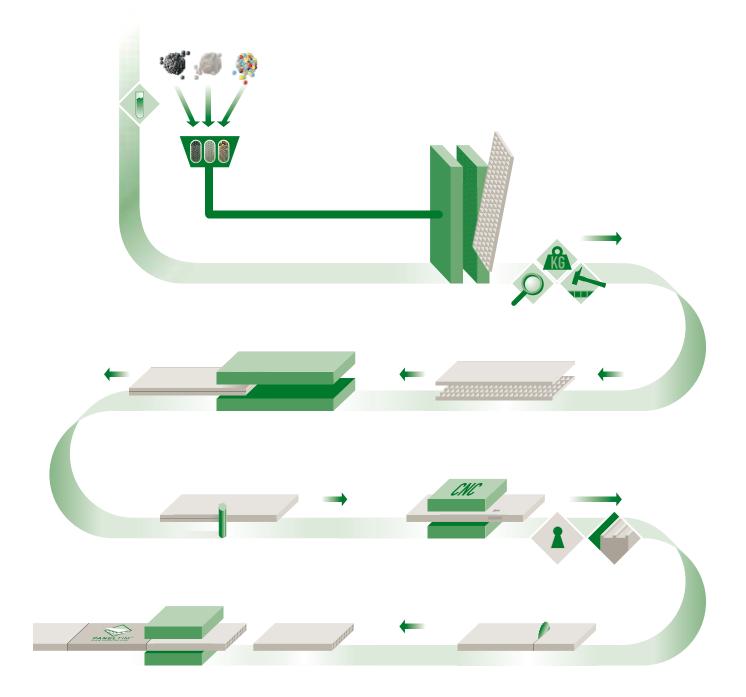
PIONEERS OF SANDWICH PANEL TECHNOLOGY



LIGHT STRONG CLEAN

PANELTIM[®] PRODUCTION PROCESS





PANELTIM® PIONEER IN SANDWICH PANELS

Paneltim[®] panels produced by specialists, for specialists.

Paneltim NV is a family-owned company in Lichtervelde (Belgium) which processes thermoplastics for the **production of sandwich panels** and slats. Paneltim is the world's independent market leader in plastic sandwich panels made by injection and mirror welding.

Different fabrication techniques are used for the production of the plastic sandwich panels, namely: high-pressure injecting (1600, 1850, 3000 and 4000 tons clamping force), semi-compression moulding (2000 tons clamping force), low-pressure injecting (1000 tons clamping force), mirror welding, cutting and CNC controlled milling.

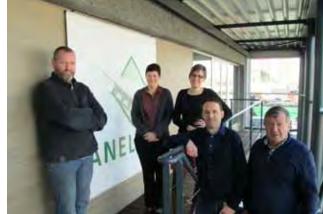
In the agricultural sector, the panels are used as pen dividers, pen doors, corridor and compartment walls, personnel doors for pig buildings and a lot of other applications.

The polypropylene (PPCO) panels meet the most severe hygienic requirements for animal housing, as the panels are closed all around to repel water and dirt.

Our daily challenge is to **innovate**, **in order to optimize quality and to search for product possibilities** together with our customers.

Through our global network, we challenge and assist our customers in diverse sectors to develop as many strong and creative applications as possible.













PANELTIM® SANDWICH PANEL IN PPCO

Animal housing and hygienic rooms

Paneltim[®] panels are made of polypropylene copolymer (PPCO) and are coloured in the mass. The panels are light, solid, rigid and very suitable for animal housing and hygienic rooms.

Sandwich structure

The panels have a thickness of 50, 35 or 20 mm and have a sandwich structure. Due to their unique internal cell structure with ribs of 50/50mm or 50/100mm, they are very solid and strong in both length and width.

Optimal hygiene

The internal cell structure ensures that all the sides of the panel are always closed (even with customized work) in order to repel dirt, water or other substances inside the panels. They can be cleaned quickly and easily with high pressure water as their surface is smooth, non-absorbing, water-and dirt-repelling and dries fast.

Easy manipulation

Standard Paneltim[®] panels can be cut and made into any dimension by hot mirror welding. Next to hot mirror welding, the panels are easy to connect using a hot air welding machine. As the panels are lightweight, large size one-piece panels can be mounted quickly and easily.

Less reinforcements

Thanks to their internal structure, the panels require less reinforcements compared to other materials, which enables smooth assembly.

No Aging

PPCO preserves its elasticity through the years. Paneltim[®] panels assure excellent mechanical characteristics and good chemical features for numerous applications. They have good impact resistance and are highly resistant to dynamic shocks. The panels do not discolour, even in contact with ammonia.

Insulation

The panels have a high insulation value due to the low thermal conduction of plastic and the hermetically enclosed air in the cells.

Ecological

Paneltim[®] panelsare made of prime or recycled raw materials. They are 100% recyclable, so there is no loss of raw material value. The panels are toxic free and meet the European directive 2002/95/EC. In case of renovation, they can be reused.

Fire class

According to EN ISO 11925-2, the panels are classified under fire class E. Upon request, the panels can have an improved fire retardant resistance through the addition of flame retardants.







EXTENDED PRODUCT RANGE 50/100 SANDWICH PANELS



Thanks to the wide range of thicknesses and structures, Paneltim[®] can offer a solution for any application, answering to your specific wishes.

We are proud to present two novelties which unlock interesting perspectives for new applications

- Paneltim[®] panel 20mm
- Paneltim[®] panel 35mm

These hygienic plastic panels preserve the advantages of the 50mm panels, but they are lighter and thinner, thus saving space. Though they are thinner, they have surprising characteristics on stiffness and bending.

Strength comparisons are available on request.



nv PANELTIM®



PANELTIM® LIGHTWEIGHT PANEL 50MM



The 50mm lightweight panel with 50/100mm internal cell structure is highly suitable for dividers, stable doors, non-supporting walls, personnel doors,... In short any application which requires a light, strong and hygienic solution. The panel has a thick wall but is nevertheless light and rigid which makes it possible to realise large dimensions.

The panel's small thickness and light weight positively affects total cost price of the application. If required, we can offer a total modular system with a complete range of assembly profiles.

Complementary stable doors, windows and door systems with flexible measures are also available.

As the panels are easy to process, a lot of time can be saved as wires, cables and operating systems can be attached directly to the walls (ideal for corridors).

Paneltim[®] panels never require any maintenance once they are fitted.

Colour combinations or combinations with Venti[®] panels are possible on demand.





PANELTIM[®] LIGHTWEIGHT PANEL 35MM

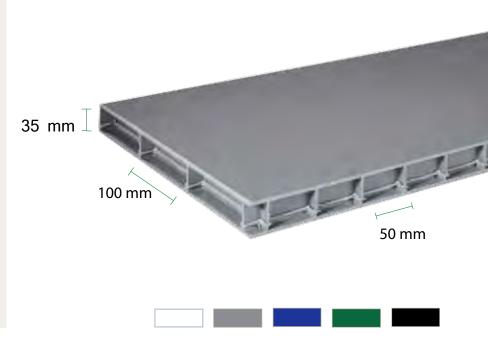


- Material: PP COPO
- Wall thickness: 3.5mm
- Internal structure: 50/100mm
- Dimensions:
 - 1200 x 800 x 35mm
 - 1200 x 1000 x 35mm

Customized dimensions available Always with internal double cross



- Weight: ±8.75 kg/m²
 Packaging: 30 pcs/pallet
- Curfe cer croacth
- Surface: smooth
- ◆ Temperature: -20°C / +80°C



The 35mm lightweight panel with 50/100mm internal cell structure is highly suitable for the housing of calves, pigs, sheep, goats, poultry, rabbits, cats and dogs, guinea pigs, birds and other pets. The panel is also perfect to create lids, partitions, shelves, cupboards, tables and benches for the vegetable and fruit sector, ... In brief, any application which requires a light and hygienic solution.

Complementary stable door systems with flexible measures are also available. Paneltim[®] panels never require any maintenance once they are fitted. Colour combinations are possible on demand.

These hygienic plastic panels preserve all advantages of the 50mm panels, but they are lighter and thinner, thus saving space. Though they are thinner, they have surprising characteristics on stiffness and bending.





PANELTIM[®] LIGHTWEIGHT PANEL 20MM



The 20mm lightweight panel with 50/100mm internal cell structure is highly suitable for the housing of calves, pigs, sheep, goats, poultry, rabbits, cats and dogs, guinea pigs, birds and other pets. The panel is also perfect to create lids, partitions, shelves, cupboards, tables and benches for the vegetable and fruit sector, ... In brief, any application which requires a light and hygienic solution.

Complementary stable door systems with flexible measures are also available. Paneltim[®] panels never require any maintenance once they are fitted. Colour combinations are possible on demand.

These hygienic plastic panels preserve all advantages of the 50mm panels, but they are lighter and thinner, thus saving space. Though they are thinner, they have surprising characteristics on stiffness and bending.

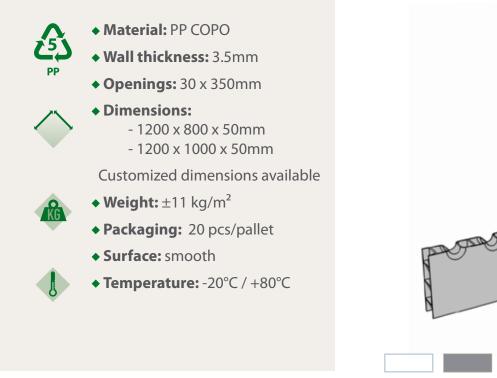




PANELTIM[®] VENTI 30[®] PANEL 50MM Patent 98201105.8-2313

50 mn

30 mm



The Paneltim[®] Venti[®] panel has a row of vertical openings every 100mm (30mm wide and 350mm high).

Using Venti[®] panels reduces stress as claustrofobic effects are diminished. As the narrow openings only start halfway the panel, the animals have no or only limited physical contact. Furthermore, The animals benefit from the air circulation through the openings in the dividers or the pen fronts.

The effect of a partially slatted floor, can be reproduced in these divisions by having part solid and part ventilated panels, all manufactured in one piece. This means it is possible to influence manure behaviour.

Venti[®] panels can be made in any size with variable heights by butt welding. The number of openings can be reduced to an absolute minimum by customising the panel.



PANELTIM[®] ANTISKID PANELS 50MM



Paneltim[®]'s panel range includes two varieties of antiskid panels with a reinforced 50x50mm internal cell structure: a checkerplate and stud antiskid structure. Both types of panel are light, rigid and closed on all sides, which makes them easy to clean.

Tests revealed that both antiskid panels have a high skid resistance. Both in wet and dry condition, they meet the requirements of the Dutch certification system for sustainable livestock (skid resistance of minimum 0.60 when measured according to the FSC-2000 method). Having a high skid resistance, they are perfectly fit for floors in hallways, stairs and covers. Just like the other panels in Paneltim[®]'s product range, they can be customized towards any size.





PANELTIM® PLUS SLAT IN PP COPO

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◆ Material : PP Copo

• Height:

50mm, 15mm above the supports

Dimensions :

PLUS open slat

- 200 x 400 mm
- 300 x 400 mm
- 600 x 400 mm
- 300 x 600 mm
- 200 x 500 mm
- 600 x 500 mm

PLUS closed slat

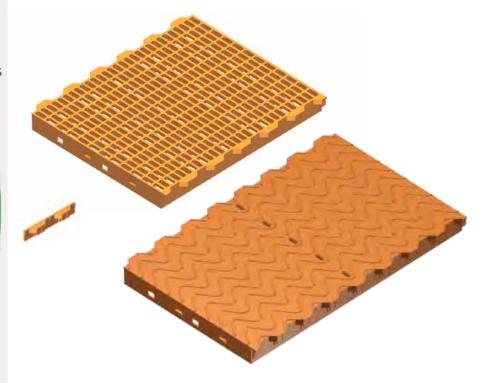
- 200 x 400 mm
- 200 x 500 mm
- 800 x 500 mm

Edge seal strip: 200 mm



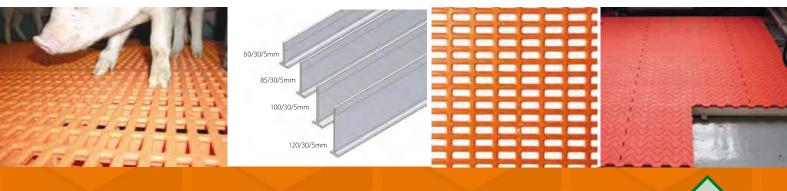
- Weight : 7 kg/m²
 - Colour : Orange, RAL2009
- Supports :

60/30/5 mm: tot 1200 mm 85/30/5 mm: tot 1700 mm 100/30/5 mm: tot 2000 mm 120/30/5 mm: tot 2400 mm



Paneltim[®] Plus slats are resistant to almost all chemical substances, moulds, bacteria and disinfectants. They are corrosion-proof and have a high resistance against dynamic shocks. The slats are very rigid, 100% recyclable and they ensure a total hygiene thanks to their rounded design and their excellent manure permeability (60%). Furthermore, the mushroom-shaped finish of the ribs gives piglets a good grip on the slats and prevents them from getting stuck between the openings with their toes.

Paneltim[®] Plus slats have an ingenious self-anchorage hook system, allowing an easy modular installation.





PANELTIM® DELTA SENIOR SLAT IN PP COPO





The Paneltim[®] Delta Senior slat is made out of polypropylene and is resistant to wear and ageing. The slat is shock and corrosion proof, ecological and 100% recyclable. It is completely resistant to most chemical substances, moulds, bacteria and disinfectants.

The slat has a highly permeable surface structure and functional anti-skid profile without sharp or cutting edges. The structure prevents calves from skidding and is virtually self-cleansing. It is also the ideal base for straw.

The Paneltim[®] Delta Senior slats are easy to fit and are connected along the side via a functional hinging hook system. This slat is an economically responsible alternative to a wooden slat.





REFERENCES





















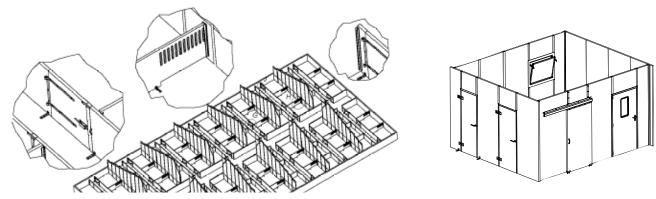




PANELTIM[®] SERVICE

Supplied according to plan

 Paneltim[®] can provide a detailed offer with drawing. Upon order, a 3D assembly drawing can be made with a detailed assembly part list.



• After the plan study, the panels are welded together in our workshop. This enables construction with a minimum quantity of assembly parts.

Upon request, CNC-milled panels can be provided in order to reduce on-site assembly time.

Paneltim[®] offers a wide range of assembly parts such as profiles in PVC, composite or stainless steel or tailor-made pieces according to your design. If needed, we can provide a complete assembly package.

Short delivery terms

Paneltim[®] has a large stock at its disposal and has enough production capacity to ensure short delivery terms.

Flexible and solution-minded

Non-standard colours are available on request, with a minimum order quantity. Furthermore, we can assist you in finding the right solution for your needs.

Transport volume

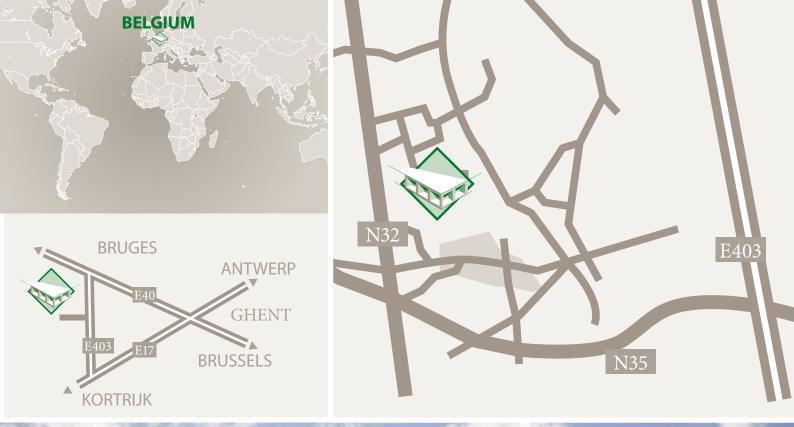
Paneltim[®] panels are light and stackable, which keeps large distance transport costs affordable. Logistical services are available upon request, with an optimal use of transport volumes.

Quality

Our daily challenge is to innovate, in order to optimise quality and to search for product possibilities in cooperation with our customers.



PANELTIM





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PIONEER IN PLASTIC SANDWICH PANELS