

PAL ECO SYSTEM

ANTIMICROBIAL COATED ALUMINUM FACE PANELS

 **Pal**



PAL International has been the pioneer in pre-insulated foam ducting and the top brand widely used in most prestigious projects worldwide. PAL is committed to provide the latest technologies and ensure the consistent quality of ducting fabrications and installations upholding environmental and health protection.

PAL incorporated the **Eco System**, an antimicrobial coated aluminum face panel. The solution to our modern and industrialized community affected by the emerging problems from infectious diseases which are caused by harmful elements from man-made source and even natural substances.

MATERIALS

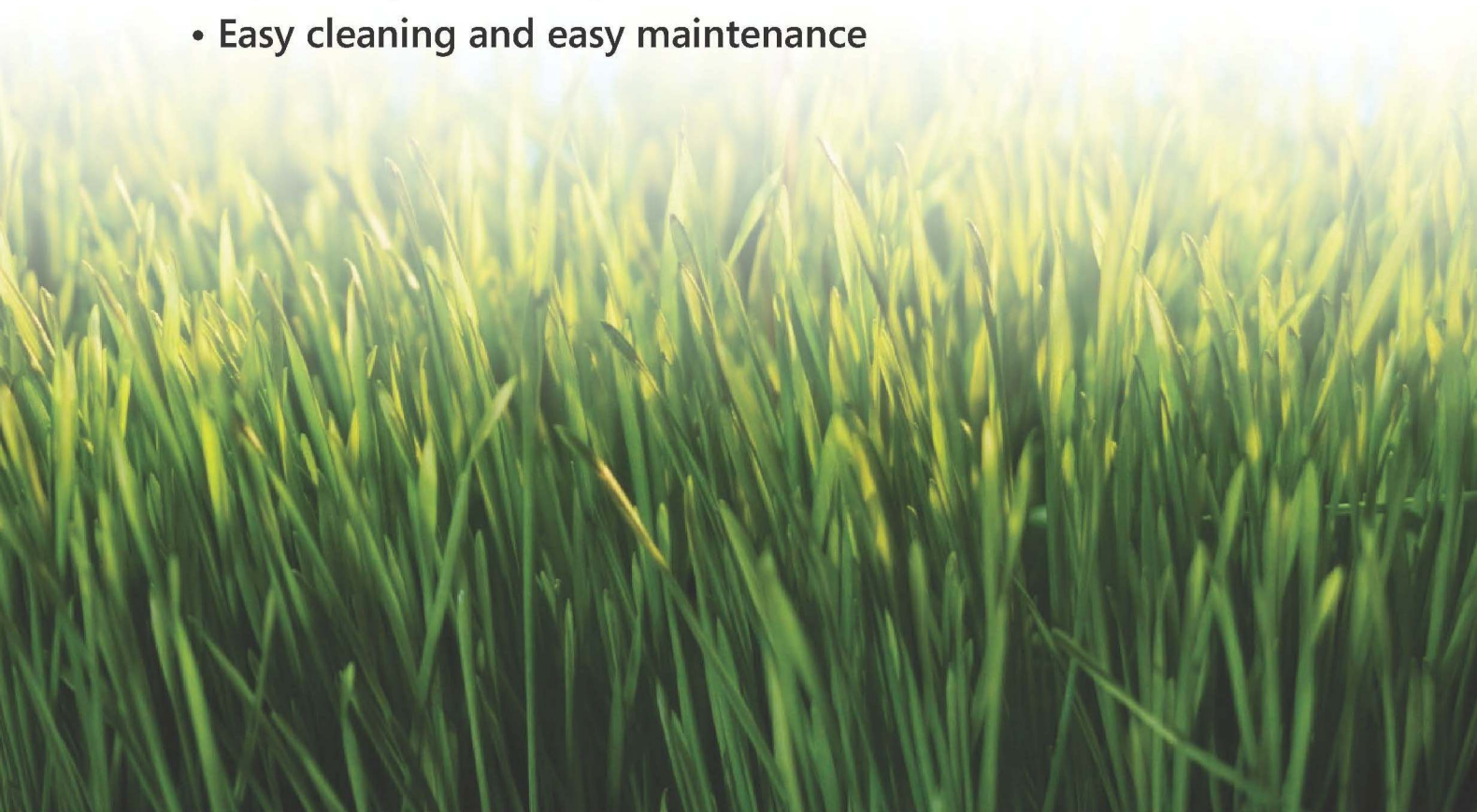
PAL Pre-insulated CFC, HCFC free PUR/PIR Foam **Eco System** panel protected with special antimicrobial coating 80/80 microns with Aluminum Foil on both sides, internal side smooth and the other side embossed.

FITTINGS & ACCESSORIES

Pal Eco System Ducts offer complete range of profiles and accessories for joining panels to form rigid duct segments connection to develop a total HVAC solution.

FEATURES

- Reduces considerable bacterial load in the air
- Hygienic and Antimicrobial
- Environment friendly
- Light weight and easy installation
- Easy cleaning and easy maintenance



Micro-organisms are unavoidably present in the air we breathe. It is airborne and can be easily transmitted from one person to another by breathing in the air indoors that contains the contaminant. The bacteria and viruses spread easily inside a room due to the confinement of air. Since it is sealed, the air that is contained inside cannot escape. Once it is contaminated with microscopic bacteria and micro-organisms, it will simply re-circulate throughout at a high risk for catching infectious diseases.

But **Pal Eco System** was created to fight harmful airborne micro-organisms more effectively. It ensures that air passing through inside the duct and the air moving outside the duct is safe and clean due to its antimicrobial component.



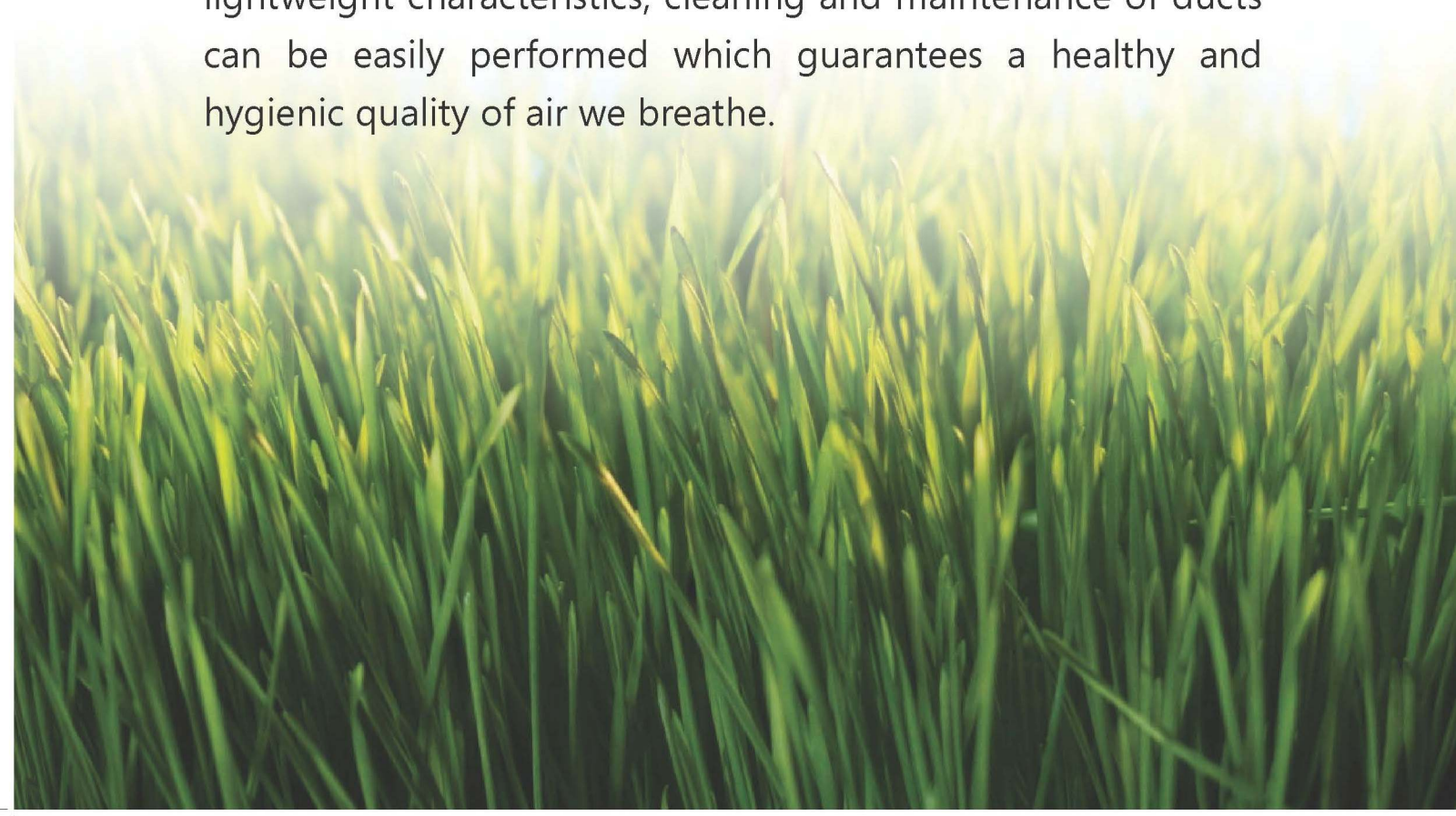
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Pal Eco System prevents developing micro-organisms and destroys the existing ones. It was microbiologically tested from American laboratory and found to have bacterial and fungal growth resistance on following organism:

- *Pseudomonas aeruginosa*
- *Staphylococcus aureus*
- *Aspergillus niger*
- *Aureobasidium pullulans*
- *Chaeromium globosum*
- *Penicillium funiculosum*
- *Trichoderma virens*

Pal Eco System is completely free from CFC/HCFC which greatly helps to safeguard the ozone layer and environment preservation. It provides the appropriate level of cleanliness due lightweight characteristics, cleaning and maintenance of ducts can be easily performed which guarantees a healthy and hygienic quality of air we breathe.



APPLICATIONS

- Clinics and Hospitals
- Clean Rooms
- Laboratories
- Food and Pharmaceutical Industries
- Operating Rooms

TECHNICAL CHARACTERISTICS

Thickness	20mm
Panel Dimension	4000mm x 1200mm
Density	45 kg/m ³
Thermal Conductivity	0.020 W/mk at 10°C
Aluminum Foil	80/80 microns with Special Antimicrobial Coating Smooth/Embossed
Classification	Class "O" BS 476 Part 6 & 7 Class "A" NFPA 101 Life and Safety Code
Antimicrobial and Antibacterial test	ASTM G21 ASTM E2180 ASTM G22



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ECO SYSTEM

A PAL TECHNOLOGY

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