



Comfort in harmony with the environment



Poultry
Animals in Comfort



What is PRODEX?

They are polyethylene foam sheets of 100% closed cells, with both sides of HIGH REFLECTIVE aluminum, a transparent polyester coating on the bottom side, and lateral seals that guarantee the core seal without exposing the foam and preventing the “beetle” ([Alphitobius diaperinus](#)) from entering.



● WHY USING PRODEX?

ADVANTAGES AND BENEFITS:

- Prodex offers REAL guarantee and guaranteed support.
- Customized technical support.
- It prevents heat stress (black globe effect).
- It increases animal density per square meter.
- It reduces mortality.
- It increases light by 20%.
- It extends the service life of your covers.
- It contributes to gas consumption savings for breeders up to 50%.
- R 15.67 Factor.
- It is a steam barrier that controls moist.
- It is easy to install and handle.
- It does not require special equipment to install.

● HOW TO USE YOUR PRODUCT?

ADP 5F (ALUMINUM AND POLYESTER)

Product width: 5mm

Fire-proof Class A Product

Standard 20 m rolls or special lengths

Divisions between drivers longer than 1.20 m.

*Save up
to 10%
of waste material
with custom-
made rolls.*





CONTINUOUS INNOVATION: PRODEX WITH FAST ACTION

Now with tape included

- Reduce material and tool expenses
- Save time and labor
- Fast and easy to install

PRESENTATIONS:

ADP5F (5m) tape included



MAINTENANCE AND WASHING

- 1 It can be cleaned with a moist cloth by rubbing gently.
- 2 In case of using detergents, they should be immediately removed.
- 3 If pressure washings is necessary, the recommendation is to be extremely careful in the overlapping or joint areas to prevent the water flow from falling on the step.
- 4 Before washing, check if the insulation material have perforation, in case of perforation or damage, use a new layer of Prodex attach with contact cement or aluminium foil tape.
- 5 It should be dried naturally through the action of the air.

PRESENTATION

Foam thickness:	3mm – 5mm
Total width:	1.22 meters
Effective width:	1.17 meters
Lengths:	Standard (20m) or special measurements according to your needs (special lengths according to the measurement of the shed to reduce waste).

TECHNICAL SPECIALITY:

- Density of 20-30 Kg/m³ – According to ASTM D 1622 Standard.
- Water steam permeability 0.033/m-hkp(0.05 perms)-ASTM E96.
- Aluminum foil: 99.15% pure of 7-9 microns, coated with polyethylene including lateral seals (without exposing the foam).
- AMPASET CORP. Fire retardant (11371 Iga Code).

APPLICATIONS:

- POULTRY, BROILER, LAYING AND REPRODUCTIVE SHEDS
- INCUBATORS
- SWINE BREEDING, MATERNITY, WEANING AND FATTENING
- CATTLE
- PROCESS PLANTS
- TRANSPORTATION TRUCKS
- FEED SILOS



FAST ACTION PRODEX IS THE SOLUTION FOR THE TEMPERATURE PROBLEM IN THE POULTRY SECTOR

- 1 The overlap between rolls (longitudinally) should be 5 cm.
- 2 Fasten the joint seal in the overlap both on top and at the bottom by pressing the joint against the set-up sheet.
- 3 For special set-up, please contact our technical department.

PRODUCT HANDLING AND RECOMMENDATIONS

- 1 The transportation can be carried out on closed or open trucks. It is essential to verify the presence of wood or metal pieces that might perforate the material.
- 2 While unloading, the material protective packaging should not be removed.
- 3 Other materials should never be placed on already loaded rolls.
- 4 Wooden racks are recommended to avoid storage on the floor.
- 5 If special measurements are used, the measurements written on the packaging should be verified against the plan.

SET UP METHOD

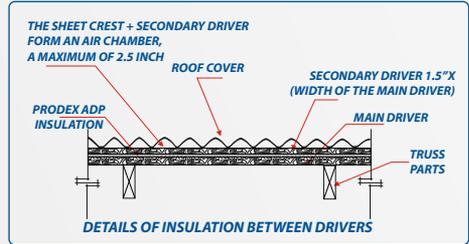
How does our insulation work?

Prodex is based on a reflective surface that will redirect 97% of the irradiation from the cover thus encapsulating it in an air chamber.

There could not be reflection without an air chamber which will remove the encapsulated heat by convection through the cover outlets or towards the highest points such as ridges, weatering or rasps.

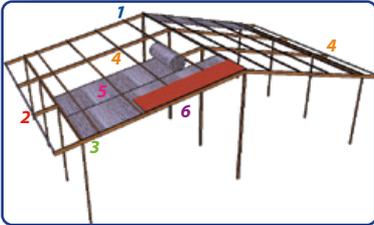
A good sealing on the overlaps will ensure the optimization of our insulation performance thus avoiding radiant filtrations at the bottom of the cover.

Therefore, we can make sure that radiant energy does not go through insulation thus reducing the thermal load up to 55% at peak hours.



POULTRY SHED

The insulation does not cover eaves

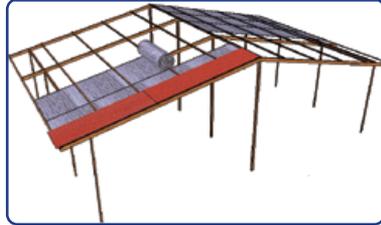


Steps

- 1) Main and secondary driver, wich recommends 1.5" x 1".
- 2) Main parts of the truss.
- 3) Fasten the insulation on the second driver downgrade.
- 4) Length of the roll up to the second driver downgrade.
- 5) Overlap of flanges of the roll bands (5 cm).
- 6) Placement of a cover on insulated areas successively.

PORCINE SHED

Insulator covers eaves



Explanatory note:

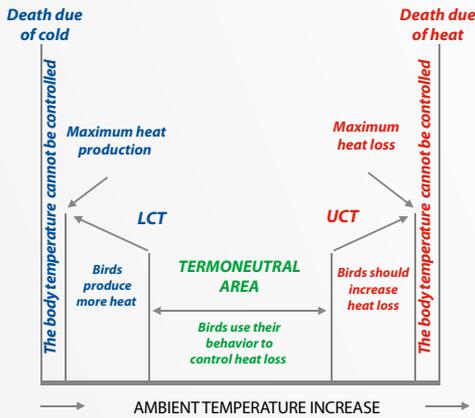
Remove the double - contact cover to seal the overlape immediately to avoid dust accumulation and the loss of the adhesive power.

**OVERLAP IN FAVOR
OF THE DIRECTION OF
THE AIR FLOW**

WHY INSULATING YOUR SHEDS?

WHAT CAUSES THE THERMAL STRESS?

TEMPERATURE PROBLEMS IN THE LIVESTOCK INDUSTRY:



The regarding the enviromental factor there are 4 agents:

- 1 Air flow (wind)
- 2 Air temperature
- 3 Relative moist
- 4 Sun radiation or hot surfaces resulting from the BLACK GLOBE EFFECT



PRODEX thermal insulation is used in buildings for Animals under confinement in order to reduce The "BLACK GLOBE EFFECCT (Thermal sensation)"

Through controlled air conditioning and avoiding extreme temperature variations.

The black globe effect is a phenomenon that affects the condition of the birds by absorbing the excess radiation. Even though the animal is confined in a building, the black globe effect makes him feel as it was in 6 and 12°C environment above the surrounding air temperature. This produces low body weight, low feed conversion, or illnesses associated to bird high body temperature.

It increases the mortality rates of animals in an "apparently protected" environment and reduces output levels.

OUR REFLECTIVE THERMIC INSULATION PROTECTS YOUR ANIMALS FROM THE HEAT STRESS

PRODEX has the capacity to eliminate the RADIATION by acting as a barrier to the radiant heat.

Our insulation removes the heat by convective forms through the air heated on the reflective space, thus becoming today the best Thermal solution in the market.

- ✓ **PRODEX does NOT contribute to rodent settlements.**
- ✓ **Our insulation has 100% closed cells.**
- ✓ **Water proof and hygienic.**
- ✓ **Resistant to products used in the shed-cleaning processes.**



Outdoor shed



Product Installed



Cover Installed after insulation



Temperature control

STEP BY STEP



1) Fastening



2) Tension



3) Area cover



4) Fastening post tension



5) Excess fastening



6) Placement of cover
Post installation



7) Completed installation



8) Post insulation
temperature

IMPORTANT NOTE:

The [Alphitobius diaperinus](#) is a common insect found in most sheds. The direct effect of a serious plague of Alphitobius Diaperinus (besides animal damage) is on building and materials. Prodex has added aluminium foil flanges to protect the polyethylene core thus preventing the beetle from entering.

The possible damage caused by rodents, accidents, and or misuse should be observed since they give access to beetles. Therefore, we recommend repairing the damage on the materials with changes of bait when the shed is clean, empty, and antiseptic because it allows a thorough inspection and repair of the product.



PRODEX WARANTEE IS REAL AND THE SUPPORT IS ALSO GUARANTEED

➔ The lowest the emission (PRODEX 0.022) of the aluminum, the better the reflective insulation. Therefore, Prodex has a better R factor.

➔ Unlike bubble insulation, our micro polyethylene bubbles do not collapse with temperature changes. Open-cavity bubbles as other insulation is called tend to collapse over time due to temperature changes and because they become ineffective.

➔ Prodex uses a self-sealing mechanism when it is nailed, screwed, or stapled. Bubble insulation not only bursts but it also tends to break easily over time.

➔ Due to its consistency, Prodex has a better structure that eliminates conductive heat because it works effectively as a separator between two bodies of different temperatures. Instead, the bubble, once collapsed, directly transmits conductive heat because the aluminum is in direct contact with both bodies thus reducing their insulating capacity.

➔ We are an enterprise of Investigation & Development, an Innovative enterprise that allows us to offer more product variety to satisfy the of our clients.



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