

# THE DIFFERENCES ARE CLEAR

*¿Which insulation system works better?*



We placed equal levels of the Prodex core and the core of bubble insulation in a sample box. We applied weighted (5kg) boards on top of each.

The bubble insulation core substantially decreased in its thickness while the Prodex core maintained most of its thickness during the test period.

- The use of an advanced foaming process in the fabrication of the Prodex core (polyethylene) results in a more stable structure.
- Bubble wraps are composed of encapsulated air. Bubble insulation loses its air pressure over time.

**THE RESULTS SPEAK ON THEIR OWN...**

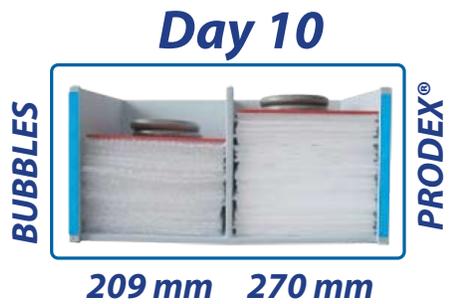
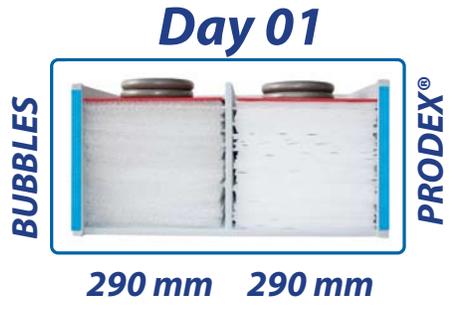
**PRODEX®**  
KEEPS ITS THICKNESS  
OVER TIME.



Comfort in harmony with the environment

# PRODEX VS. BUBBLE INSULATION COMPARATIVE ANALYSIS

DAY	DATE	BUBBLES	PRODEX®
1	July 08	290 mm	290 mm
2	July 09	270 mm	275 mm
3	July 10	260 mm	275 mm
4	July 11	260 mm	275 mm
5	July 12	250 mm	275 mm
6	July 13	230 mm	270 mm
7	July 14	225 mm	270 mm
8	July 15	220 mm	270 mm
9	July 16	216 mm	270 mm
10	July 17	209 mm	270 mm
11	July 18	209 mm	270 mm
12	July 19	209 mm	270 mm
13	July 20	190 mm	270 mm
14	July 21	180 mm	270 mm
15	July 22	160 mm	270 mm
16	July 23	155 mm	270 mm
17	July 24	150 mm	270 mm
18	July 25	150 mm	270 mm
19	July 26	150 mm	270 mm
20	July 27	140 mm	270 mm
21	July 28	135 mm	270 mm
22	July 29	130 mm	270 mm
23	July 30	130 mm	270 mm
24	July 31	130 mm	270 mm
25	August 01	130 mm	270 mm
26	August 02	130 mm	270 mm
27	August 03	130 mm	270 mm
28	August 04	130 mm	270 mm
29	August 05	130 mm	270 mm
30	August 06	125 mm	270 mm
31	August 07	120 mm	270 mm
32	August 08	120 mm	270 mm
33	August 09	120 mm	270 mm
34	August 10	118 mm	270 mm
35	August 11	111 mm	270 mm
36	August 12	110 mm	270 mm



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Results report registered thru a notarial deed by notary public  
Lic. Eduardo Echeverría Monturiol, Code: 12463.

# DIFFERENTIAL ADVANTAGES

**PRODEX against competition of polyethylene bubble fabricated insulation materials.**

## Comparative Table of these products qualities versus Prodex qualities.

BUBBLE INSULATION	PRODEX®
<ul style="list-style-type: none"><li>✗ It's not elastic, can't be perforated with a fastener, and it won't seal around the fastener (leaking danger).</li><li>✗ The pack of bubbles pops with use or deflates with the pass of time.</li><li>✗ Raw material it's just polyethylene.</li><li>✗ Once deflated or burst, it only works as a polyethylene film (water repellent, but careful with the fastening holes!).</li><li>✗ The material isn't thick enough to guarantee superficial condensation prevention.</li><li>✗ Layers can't be thermally bound.</li><li>✗ Does not have adhesive flanges.</li><li>✗ Material too thin doesn't inspire trust.</li><li>✗ There is no experience with large projects.</li></ul>	<ul style="list-style-type: none"><li>✓ Polyethylene foam structure, flexible and elastic. Water does not leak when perforated with a fastener.</li><li>✓ Material structure does not deflate with the pass of time. Able to carry small weights caused by walks.</li><li>✓ Material has a flame retardant in its structure.</li><li>✓ Besides working as a radiant heat reflector, the material itself is a thermic insulator. It's also waterproof.</li><li>✓ The material thickness and its waterproof feature to steam guarantee no water condensation.</li><li>✓ The layers can be thermally bound each other.</li><li>✓ It has an auto adhesive flange.</li><li>✓ The 10mm thick material speaks on its own.</li><li>✓ It has an extended experience in projects of all kind.</li></ul>

**THE RESULTS SPEAK  
ON THEIR OWN...**

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## DID YOU KNOW THAT... ?

### BUBBLE INSULATION

- ❌ Bubble insulation not only pops its bubble, but also tends to easily crack along the time.
- ❌ The open cavity bubbles as they're also known as tend to collapse with the pass of time due to temperature changes and get completely ineffective.
- ❌ The bubble once collapsed directly transfers conductive heat because the aluminium is now under direct contact with both bodies which decreases its insulation capacity.

### PRODEX®

- ✅ Prodex auto seals once it's fastened, screwed or stapled
- ✅ Our polyethylene micro bubbles do not collapse with temperature changes.
- ✅ Prodex due to its consistency has a more solid structure which eliminates conductive heat and works efficiently as a barrier for two bodies at different temperatures.

PRODEX  
GUARANTEE IS REAL  
AND ITS SUPPORT  
GRANTED

Day 01



290 mm 290 mm

Day 36



110 mm 270 mm

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KEEPS ITS THICKNESS  
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PRODEX®

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## WHAT IS PRODEX THERMIC?

*Prodex is a reflective insulation with polyethylene foam core and variable thickness presentations for different uses. It comes with one or two aluminum layers for radiation barrier. Prodex insulation was designed to help you get savings on energetic expenses and increase the comfort at home or workplace.*

*Prodex Thermic thermally isolates the roof preventing condensation. Its main feature is the easy handling and installation; it's also a light material that doesn't loose particles of any kind, all these advantages assure a quick installation and effective thermic insulation along the time.*

**PRODEX®  
KEEPS ITS THICKNESS  
OVER TIME.**

ALUMINUM+ALUMINUM

AD



Classification A / Fire Retardant

ALUMINUM+POLYESTER

AP



KEEPS ITS THICKNESS ALONG THE TIME

**PRODEX®**

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Aluminum  
both faces reflecting  
radiation heat



Thermic  
insulation



Waterproof  
isolation



Prevents  
condensation



Doesn't leak  
when fasten



KEEPS ITS THICKNESS  
OVER THE TIME



Prevents pass  
of insect



Thermally bound



Classification  
**A**  
Fire Fire Retardant  
Slow flame  
propagation  
material

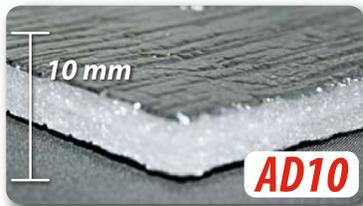


REAL  
GUARANTEE  
**10**  
YEARS

**PRODEX COUNTS WITH DIFFERENTE TYPES OF PRODUCTS  
TO SATISFY ALL YOUR CONSTRUCTION NEEDS:**

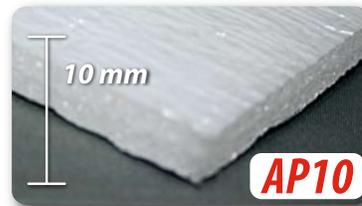


**AD**



- Hidden Overlaps
- Better acoustic reduction

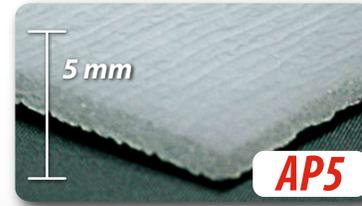
**AP**



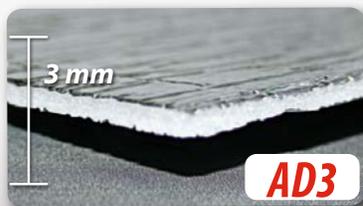
- High mechanical capacities
- On site thermally bound



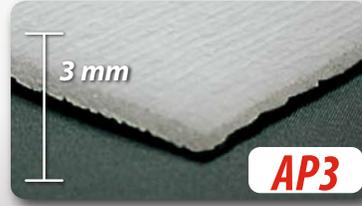
- Lateral seals
- Best Seller / Classification "A" against fire



- Better mechanical capacities
- Excelent commercial finishes



- Economical classification Premium product
- Light and easy to install



- Very economical
- Good final finishes

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KEEPS ITS THICKNESS  
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## GENERAL FEATURES

- Doesn't tear apart and keep its shape and thickness along the time.
- Eliminates radiant heat
- Completely waterproof
- Rejects heat in warm climates / Retains heat in cold zones
- Prevents condensation
- 100% filled cell product
- Easy to wash, no leaking or ripping risks
- Hygienic
- Doesn't loose particles
- Recyclable. Doesn't contaminate the environment. CFC's free
- Slow flame propagation – flame retardant.
- Easy to ship
- Applicable for roofs, walls and floors.

## ENVIRONMENTAL FEATURES:

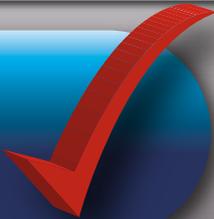


**PRODEX IS ENVIRONMENT FRIENDLY**  
*"We also ISOLATE pollution"*

*The reflective insulation is a non-toxic material, safe for the user as well for the building owner and it's a framing material safe for the environment. Also, our products are typically recyclable and therefore, it can be considered as a Green Construction Material. Source: RIMA.*

- WE GUARANTEE energetic savings
- Prodex Insulation are toxic gases free
- We don't hurt the Ozone layer.
- Recyclable
- CFCs free product
- Our packages are made with OXOBIODEGRADABLE technology
- We are members of the UNITED STATES GREEN BUILDING COUNCIL

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**OVER TIME.**



We also insulate pollution



EPA recommends sealing air leaks and adding insulation to make your home more comfortable, reduce energy bills, and help our environment



# PRODEX®

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## ¿WHO WE ARE?

2 BILLION M<sup>2</sup>  
SOLD  
WORLDWIDE

*Productos de Espuma S.A, better know as Prodex is a modern company that fabricates insulation layers and packaging foam with the most advanced foaming process that doesn't create risks of any kind for the environment.*

*From its modern plant located at Alajuela – Costa Rica, Prodex fabricates and distributes its products all around the Country as well as in all Central America, United States, Canada, Spain, Andorra, Dominical Republic and Puerto Rico.*

*Due to its wide versatility and thermal insulation, waterproof and acoustic properties, Prodex foam satisfies the needs of diverse building construction and packaging markets.*



**PRODEX<sup>®</sup>**  
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**PRODEX<sup>®</sup>**

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# *We submit to the evidence...*



## *When you think insulation think* **PRODEX®**



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