

POLYNUM™ DOUBLE

Thermal reflective insulation made of two external pure aluminum foils layers covering a double core layer of polyethylene bubble film.

Polynum reflective and acoustic thermal insulation

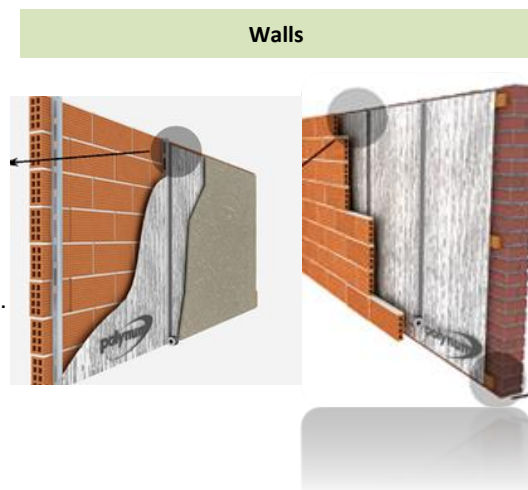
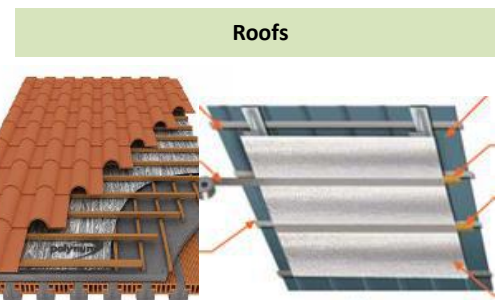
Polynum products are Fiber-free, made from pure aluminum foils covering a polyethylene air bubble layer. The unique design of Polynum products allows a combination of a solution for heat transfer in a radiation configuration at a rate of 97% in the transmission configuration. Thanks to this combination, Polynum products exceed energy-saving performance and efficacy over all other mineral-based insulation materials. It has a high thermal resistance that meets the requirements of green construction and contributes to a feeling of comfort in the building space. Suitable for use in residential buildings (ground-level and saturated construction), office, and industrial buildings, including a unique line for animal husbandry buildings.

Application:

- ❖ Thermal insulation in industrialized roofs based on the existing construction
- ❖ Thermal insulation in walls with two layers (gypsum finish, board cement, and more)

Polynum™ Double

- ✓ High thermal resistance value
- ✓ High performance
- ✓ Moisture-proof, fungus and mold-free Does not attract nesting, rodents, birds or pests.
- ✓ Does not collect dust,
- ✓ Lightweight
- ✓ No protective equipment such as gloves or breathing equipment is needed.
- ✓ Hypoallergenic, non-crumbling material, with no airborne micro particles.
- ✓ Eco Friendly
- ✓ Easy Application



✓ Thin insulation ✓ High thermal resistance ✓ Safe ✓ Easy to install ✓ Cost effective



POLYNUM™ DOUBLE

Properties	Units	Polynum™ Double
Nominal thickness	mm	+/- 8.0
Foil thickness	Microns	At least 8.0
Emissivity (ASTM C 1371)		0.05
Reflectivity (ASTM C 1371)		0.95
Heat Resistance (R) - roof- Down	3.16	17.50
Roll size	M	1.20 x 40.00
Coverage area	M2	48.00
Roll weight	Kg	+/-15.50

Product stability

Anti-corrosion treatment		Both Sides- HR
Water Vapor Transmission ASTM E-96	g / ft ² • hr	0.0018 (method A)
Fungi and Bacteria growth (ASTM C 1338)		No Fungal growth

Thermal Resistance Performances

m²•°C/W

Btu*in/(hr*ft²*°F)

Test\Report\Laboratory	Standard\Method	Results
Water Vapor Transmission	ASTM E-96 (Method A)	0.0018
Tensile properties ASTM C 1136-92	g/cm-width	MD 2650 TD 2750
Puncture properties TAPP T803	Joule	4.0
Noise Reduction (NRC)	ASTM E-384-90	55%
Sound Transmission Class ISO 717-1	ISO 717-1	dB (-6)

Product stability tests and reports

European Technical approval	DIT	PASS
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Safety (reaction to fire)

Fire properties: European Union (EU)	13501-1-2019	*Classification B - s1, d0
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* Fire Retardant formulated