

# skyTech

**Insulating breather membrane**  
**Non-combustible**  
**EUROCLASS A2-s1,d0**



EN 13859-1  
EN 13859-2



**BREATHABLE**  
— NO RISK OF —  
CONDENSATION



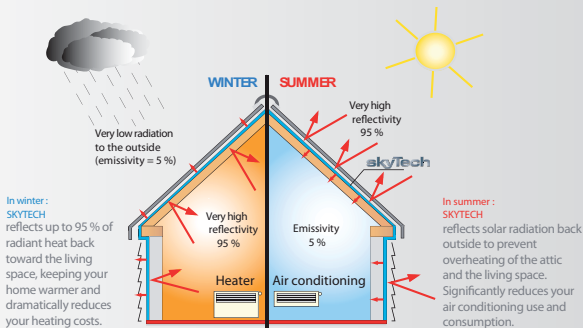
**NON-COMBUSTIBLE**  
**EUROCLASS A2-s1,d0**

**WINCO**

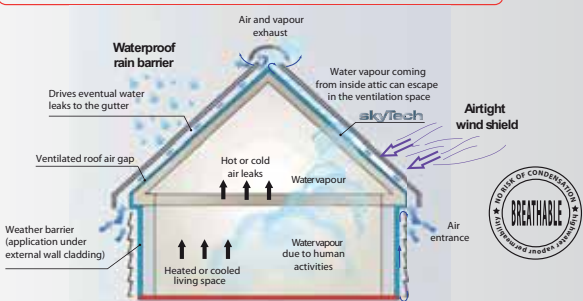
**technologies**

# 2 in 1 insulating breather membrane

## Reflective insulation with high reflectivity



## Airtight insulation (roofing membrane)



It is possible to estimate the average production of water vapour by a 4-individual family to approximately 12 liters per day. In order to prevent pathological risk and damages that could occur to building structure, it is essential to use a breathable product with high water vapour permeability that will lead the water vapour to exhaust the building.



# skyTech



Non-combustible



Breathable



Manufactured under certification



Tearproof (EN 12310-1)



Summer thermal insulation



Winter thermal insulation



Waterproof



Airtight



## HIGH DENSITY BLANKET MANUFACTURING

1 200 mm fiberglass filaments



2 Fibers needling



3 High density blanket (10mm)



### HEALTH AND ENVIRONMENT :

SKYTECH guaranteed Asbestos free, Formaldehyde free and V.O.C. free (Volatile Organic Compound).

Filaments composing SKYTECH are classified as **non carcinogenic** by European Directive n° 97/69/CE and by I.A.R.C (International Agency for Research on Cancer).

More than 90 % of raw materials used in the manufacturing process of SKYTECH are already recycled materials. SKYTECH is also 100 % recyclable.

SKYTECH is manufactured under ISO 14001 Certification (Environmental management) ensuring a complete respect of environmental friendly procedures during the manufacturing process.

# An outstanding level of performance

**Winter and summer thermal comfort**  
(energy savings)

**REFLECTIVE INSULATION**  
(Reflectivity rating : 95% - Lambda : 0,029 W/m<sup>2</sup>K)

**High water vapour permeability**  
(breathable : avoids condensation problems,  
can be applied on continuous supports  
such as existing insulation, sheathing...)

**BREATHABLE**

**Waterproof and Airtight**  
(100% waterproof)

**W1**

**Tearproof**  
according to EN 13859-1 standard

**MD : 275 N - CD : 280 N**

**Non-combustible**  
Euroclass A2-s1,d0  
(Safety of people and goods)  
equivalent to M0 ratings)

**NON-COMBUSTIBLE**

## Building Airtightness and building structure protection

### BUILDING AIRTIGHTNESS :

With the generalization of «Low energy consumption» buildings, an **airtight building envelope** is now considered has a paramount to obtain indoor comfort and significant reduction of energy consumption.

Installed as a roof underlayment, SKYTECH creates a **complete insulating envelope** of the roof **avoiding thermal bridges and heat exchanges due to roof air leaks**. This airtight envelope allows the roof structure to breathe.

SKYTECH makes it possible to complete, with **only one installation, the insulation and the weather barrier (airtight and waterproof) of the roof** while allowing the roof structure to breathe with a high vapour permeability.

With its high resilience characteristics and high density (135 Kg / m<sup>3</sup>), SKYTECH alone has a **sound reduction capacity of Rw = 16 dB**.

### BUILDING STRUCTURE PROTECTION

**Avoids condensation and mold problems** thanks to SKYTECH high vapour permeability.

Protects the building against external weather assaults like rain, snow, dirt, insects... especially when traditional roofing materials are damaged.

Unlike traditional roof underlayments, SKYTECH high density avoids noises due to wind clapping.

**Higher fire protection.** Limits flame spread and smoke development. Delays structural collapse.

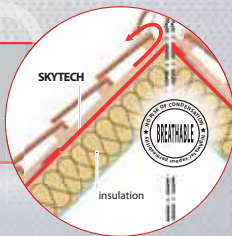
SKYTECH : marked  
(According to : EN 13859-1 - EN 13859 -2)



# Easy to install

# BREATHABLE

- ✓ CAN BE APPLIED ON CONTINUOUS SUPPORTS SUCH AS EXISTING INSULATION, SHEATHING ...
- ✓ PROTECTS EXISTING INSULATION
- ✓ CAN BE NAILED, STAPLED OR SCREWED



## TEARPROOF



## EASY TO INSTALL



## REINFORCED INSULATION



## NON-COMBUSTIBLE

## Technical sheet

### SKYTECH

Composition	<ul style="list-style-type: none"> <li>Breathable and waterproof membrane reinforced with fiberglass fabric / pure aluminum foil</li> <li>High density blanket made with continuous E glass filaments</li> <li>Micro-perforated pure aluminum foil (breathable)</li> </ul>
Thickness	10 mm <small>(40/2mm)</small>
Roll size	1m x 18 mL (18 m <sup>2</sup> )
Density	1 346 g/m <sup>2</sup>
Packaging	6 rolls / box - 2 boxes / pallet
Roll weight	24 kg
Roll diameter	420 mm

### Physical datas

Emissivity / Reflectivity	5% / 95 %
Thermal conductivity	$\lambda$ : 0,029 W/mK

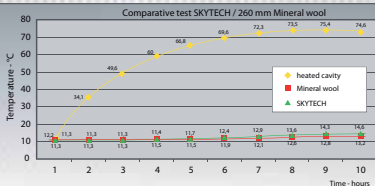
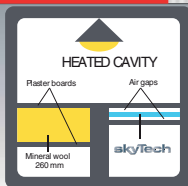
### Mechanical datas

Fire rating	Euroclass A2-s1,d0 (Non combustible) - M0
Water vapour permeability	Sd 0,041 m (breathable) - water vapour resistance factor ( $\mu$ ): 7
Waterproof	W1 (waterproof under 1000 mm water column)
Tear resistance (nail tear resistance)	MD : 275 N - CD : 280 N
Sound reduction	Rw = 16dB (SKYTECH alone)

### Accessories

Adhesive aluminum tape	REFLEXBOND 100 mm
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## SUMMER THERMAL TEST



# WINCO technologies