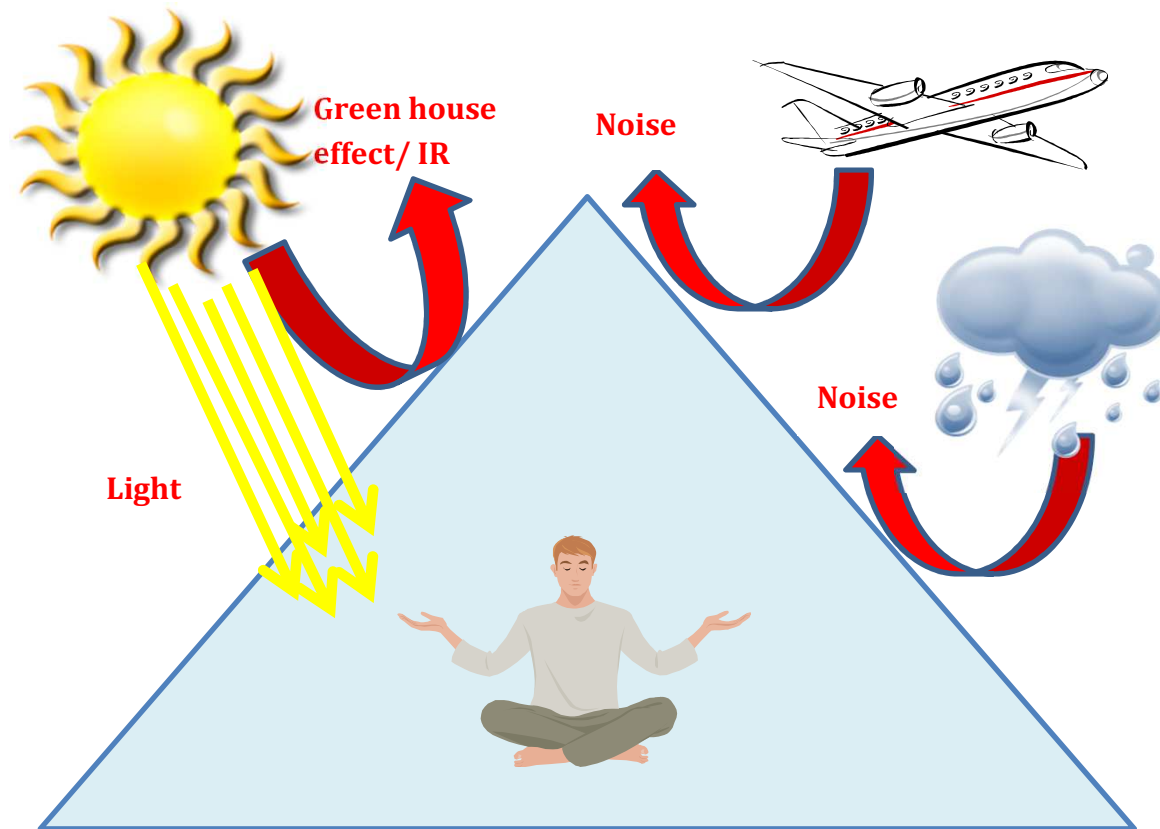


# AKYVER® Silence



« The new intelligent sheet »

# AKYVER® Silence

## Your advantages:

### 1. **Outstanding** sound insulation

- Best sound reduction, till **10 dB\*** (Rw)
- Better behaviour on rain noise, till **11 dB \*** (Lia)

### 2. Diffusing **natural** light

### 3. **Reduction of green house effect** by better solar factor

### 4. Improved fire resistance

### 5. A **unique aesthetic**

\* Measures CSTB done on sheet of 20 mm with and without beads

**European  
Patent!**



# AKYVER® Silence

## Description:

Cellular polycarbonate sheets filled with 1000 $\mu$  glass beads

## Available on our products:

- ~ Sheets in AKYVER® 16 mm and 20 mm
- ~ Systems (ex: AKYVER® Panel 40- 8W)
- ~ Others on demand



AKYVER® Silence

# AKYVER® Silence

## Sound improvement:

| Filling                 | Rw<br>Sound reduction<br>(dB) | Lia<br>Rain noise<br>(dB) |
|-------------------------|-------------------------------|---------------------------|
| AKYVER® 16-7 Silence *  | Rw=28                         | 64                        |
| AKYVER® 20-7 Silence *  | Rw=30                         | 62                        |
| AKYVER® Sun Type 16 7 * | Rw=20                         | 73                        |
| SPC 16 3P + Aerogel *   | Rw=21                         | 65                        |
| Glass 4-16-4            | Rw=30                         | -                         |

*The microbeads provide an acoustic performance close to a standard double glazed*

Nota:

- **Exterior noise:** Rw index (C, Ctr) expressed in dB  
*The higher this index is, the less the noise disturbs the activity inside the building*
- **Rain noise:** Lia index expressed in dB.  
*The lower this index is, the less the noise disturbs the activity inside the building*

➤ To the ear, reducing the level of 10 dB represents twice less noise

# AKYVER® Silence

## Light and energy improvement:

| Filling                                    | Light Transmission<br>LT (%) | Solar Factor<br>(g-Wert) | Thermal insulation<br>U (W/m <sup>2</sup> .K)<br>(U-Wert) |
|--|------------------------------|--------------------------|---|
| AKYVER® 20-7 Silence <sup>(1)</sup>        | 46                           | 0,43                     | ~ 1,8   |
| AKYVER® 16-7 Silence <sup>(1)</sup>        | ~ 50                         | 0,49                     | 2,2   |
| AKYVER® Sun Type 16-7 Opale <sup>(1)</sup> | 54                           | 0,52                     | < 1,8   |
| SPC 16 3P + Aerogel <sup>(2)</sup>         | 64                           | 0,66                     | 1,5   |
| Glass 4-16-4                               | 80                           | 0,63                     | 1,5   |

*The microbeads provide a good light scattering and limit the warming inside the premises*

<1,8 à 1,9 (2)  
Following the methods of measure

Nota:  
 ➤ **LT:** *The higher the value is, the more the light passes through the filling and thus illuminates a room. The notion of diffusion is not considered in this index*  
 ➤ **g-W:** *The lower this index is, the less the sun radiations warm up a place*

(1) Purely indicative, being validated in the laboratory, (2) Datas from CSTB technical approval

# AKYVER® Silence

## Weight of fillings:

| Filling                             | Weight (Kg/m <sup>2</sup> ) |
|-------------------------------------|-----------------------------|
| AKYVER® 20-7 Silence <sup>(1)</sup> | 7,4                         |
| AKYVER® 16-7 Silence <sup>(1)</sup> | ~ 6,4                       |
| AKYVER® Sun Type 16 Seven           | 2,6                         |
| SPC 16 3W + Aerogel                 | 3,6                         |
| Glass 4-16-4                        | 20                          |

*Significant weight gain in comparison with a double glazing :*

- *Easier handling*
- *Less Fragile*

(1) Estimation by internal measuring,

# AKYVER® Silence

## Other characteristics:

- ~ Bendable 150 x thickness
- ~ Improved fire reaction by reducing the flame spread
- ~ Operating temperature: -40 à +110° C
- ~ Light effect possible (Office separators; stand; etc...)
- ~ Lighter supporting structure comparing to glass installation

Warning: possible only in cut-to-size dimensions, on order  
=> Filling up in the factory



# AKYVER® Silence





# AKYVER® Silence offer you:

Sound  
insulation

Solar factor g  
G-Wert

Thermal  
insulation U  
( $W/m^2 \text{ } ^\circ K$ )

Outstanding  
energy and  
accoustic results

