

NEW



AV COMPOSITES PRODUCT  
patent n° FR12/00197 - n°FR12/02142

100% recycled  
100% recyclable



# ALUMINIUM SHUTTER

aluminium panel with an insulating lacquer thermoplastic

Always a leader in innovation, AV Composites is proposing a new product for the manufacturing of aluminium doors and shutters in panels with an insulating lacquer THERMOPLASTIC.

This aluminium panel will **save you considerable manufacturing time** by allowing **fast cutting of the panel** regardless of the complexity of the geometry, and allow a **full coated** shutter, door, ... including the panel and the aluminium profiles.

## Advantages

### Saving of time

Fast cutting  
In place of aluminium profiling blades

### 100% recyclable

Environmentally clean

### Modern and Design

### Longevity

Oxidation resistance  
Neither rust nor corrosion

### Infinite range of colors and aspects

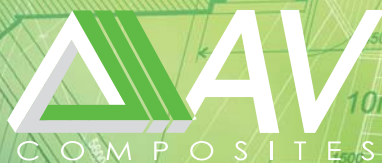
Full coated gate in the color wishes  
(wood, wrought iron,...)

### Easy cleaning

### A single stock of product

Deletion of the stocks of colors

### Light and solid



UN TOIT POUR LA VIE  
[www.avcomposites.com](http://www.avcomposites.com)

Tel : +33(0) 4 32 61 92 95  
Fax : +33 (0) 4 90 15 43 39  
[contact@avcomposites.com](mailto:contact@avcomposites.com)

## - Main Advantages -

- Ecological product : 100% recycled and 100% recyclable
- Excellent resistance in high and low temperatures (-40°C to +180°C/-40°F to +356°F)
- Very good properties of heat insulation thanks to excellent values in heat conduction with a  $\lambda$  of 0.028
- Excellent mechanical resistance : between 30 and 100% stiffer than the traditional foam in XPS or EPS depending on the thickness and the nature of the facade
- Can be drilled, sawed, ...
- No toxic emission during manipulation or during fire : good properties FST (Fire, Smoke and Fire Toxins)
- Very low absorption of water thanks to a closed cell structure
- Excellent resistance to fatigue
- Very good adhesion of glues (polyurethane, epoxy, etc ...)
- Possibility of screwing elements into the product centre (winged screws)

## \*\*\* Specification Sheet of THERMOPLASTIC \*\*\*

### 1- Covering - Outside facing :

Aluminium alloy 7/10 with epoxy primer

### 2- Insulating foam :

THERMOPLASTIC - lambda of 0.028 W/(m.K) - 0.016 btu/(h.ft.°F)  
(100% recycled and 100% recyclable)

### 3- Thickness finished panel :

14.2 (0.56 in) ; 26.9 (1.06 in) ; 39.6 (1.56 in) ; 52.3 (2.06 in) mm

Others thicknesses : consult us

Insulating material : 12.8 (0.5 in) ; 25.5 (1 in) ; 38.2 (1.5 in) ;  
50.9 (2 in) mm

### 4- Properties :

#### \* Thermal loss coefficient U or K :

U SI = K SI = 2.205 (12.8) / 1.102 (25.5) / 0.735 (38.2) /

0.551 (50.9) W/(K.m<sup>2</sup>)

U = K = 0.388 (0.5) / 0.194 (1) / 0.129 (1.5) / 0.097 (2) btu/ft<sup>2</sup>.h.°F

#### \* Thermal Resistance R :

R SI = 0.454 (12.8) / 0.907 (25.5) / 1.361 (38.2) / 1.814 (50.9) m<sup>2</sup>.K/W

R = 2.578 (0.5) / 5.15 (1) / 7.728 (1.5) / 10.30 (2) ft<sup>2</sup>.h.°F/btu

#### \* Fire classification :

Quality M1, following certification LNE N°M2389-DE/2

### 5- Dimensions - Weight :

\* Width : 1000 (3.28 ft) - 1200 mm (3.94 ft)

\* Length : 2440 (8 ft) à 4880 (16 ft) mm

\* Weight : 5.01 (14.2) / 6.03 (26.9) / 7.05 (39.6) / 8.06 (52.3) kg/m<sup>2</sup>

11.05 (0.56 in) / 13.29 (1.06 in) / 15.54 (1.56 in) /

17.77 (2.06 in) lb/ft<sup>2</sup>

### 6- Guarantees :

#### \* Company Civil Insurance N°2/677503 - ACTE iard

La pose des systèmes doit impérativement être faite avec les accessoires de la gamme AV Composites. En cas de litige, les garanties s'appliquent si les conseils d'utilisation, portés sur nos fiches techniques et agrément technique européen (ATE) sont respectés. La tenue de la coloration des laques, de couleur extérieure foncée (exemple: Ardoise), n'est pas garantie dans le temps. Les conseils et les données techniques se réfèrent à de véritables informations et expérience pratique. Ils sont offerts en bonne foi, mais sans garantie, étant donné que les conditions et les méthodes d'usage ne sont pas sous notre contrôle. Nous nous réservons le droit d'apporter des modifications à n'importe quel moment, sans préavis.