

# ARCAFAÇADE®



EN 12101-2  
EN 1873 + A1: 2016

## Évolution Électrique



## VERSION



### Types of filling

#### ORIGIN' RANGE:

- Opal multi-wall PCA 10  
 $U_g = 2.9 \text{ W/m}^2\cdot\text{K}$
- Fireproof (M0) aluminium blade, unfinished or lacquered in RAL colours
- Insulated aluminium blade – sheet metal on both sides, unfinished or lacquered in RAL colours



### Frame

- Wide choice of profile sections suitable for all types of installation



### Control

- Electric opening/closing

The ARCAFAÇADE® ÉVOLUTION ÉLECTRIQUE is an NSHEV able to perform natural smoke exhaust, comfort ventilation and air inlet functions. It is designed for wall mounting at an inclination of between 60° and 90° relative to the horizontal.



## OPTIONS



### Types of filling

- Opal PCA 10 IR
- Black and white opaque PCA 10
- Transparent PCA 10
- PCA 10 + Lumira\*



### Control

- Limit switch
- Thermofuse



### Frame

- Lacquered interior/exterior (standard RAL colours)

## Filling performance

Other filling and filling options: see "Filling" data sheet.

| Type of filling           | Thermal transmittance factor Ug (W/ m <sup>2</sup> .K) | LT D65 <sup>(2)</sup> | SF or g <sup>(2)</sup> | Reaction to fire | R <sub>w</sub> (dB) <sup>(3)</sup> |
|---------------------------|--------------------------------------------------------|-----------------------|------------------------|------------------|------------------------------------|
|                           | U <sub>hor</sub> <sup>(1)</sup>                        |                       |                        |                  |                                    |
| Opal 4-wall PCA 10        | 2.9                                                    | 61%                   | 61%                    | B-s1-d0          | R <sub>w</sub> =19 dB              |
| 33.2 laminated glass      | ND                                                     | >85 %                 | ND                     | M0               | ND                                 |
| Aluminium blade           | ND                                                     | 0%                    | 0%                     | M0               | ND                                 |
| Insulated aluminium blade | ND                                                     | 0%                    | 0%                     | ND               | ND                                 |

<sup>(1)</sup>Relative to the horizontal, as per §2.31 of the Th-Bat regulations.

<sup>(2)</sup>Light transmittance LT D65 and solar transmittance SF (TST or g) as per EN 410.

<sup>(3)</sup>Filling insulated against airborne noise R<sub>w</sub>, pink noise R<sub>A</sub> (environment, airport and industrial activities) and road noise R<sub>A,Tr</sub>, laboratory-measured according to NF EN ISO 140.

## Size range

| Number of blades | Length (cm) | Width (cm) |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  |             | 1000       | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 |
| 6                | 1107        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 7                | 1269        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 8                | 1431        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 9                | 1593        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 10               | 1755        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 11               | 1917        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 12               | 2079        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 13               | 2241        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 14               | 2403        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 15               | 2565        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 16               | 2727        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 17               | 2889        |            |      |      |      |      |      |      |      |      |      |      |      |      |
| 18               | 3051        |            |      |      |      |      |      |      |      |      |      |      |      |      |

Filling options depending on size:

|                                                                                     |                                           |                                                                                     |                        |                                                                                     |     |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----|
|  | PCA<br>Aluminium cover<br>Laminated glass |  | PCA<br>Aluminium cover |  | PCA |
|-------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------------|-----|

## COMPLIANCE & INSTALLATION

CE certified NSHEV compliant with NF EN 12101-2 (product certification No. 0333 CPR 219066).

The product must be fastened and sealed in accordance with the requirements defined in the applicable DTU specifications (series 40 and 43).

DoP available at [www.skydome.eu](http://www.skydome.eu)

## Geometric area $A_v$ (m<sup>2</sup>)

| Number of blades | Length (cm) | Width (cm) |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  |             | 1000       | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 |
| 6                | 1107        | 1.11       | 1.22 | 1.33 | 1.44 | 1.55 | 1.66 | 1.77 | 1.88 | 1.99 | 2.10 | 2.21 | 2.32 | 2.44 |
| 7                | 1269        | 1.27       | 1.40 | 1.52 | 1.65 | 1.78 | 1.90 | 2.03 | 2.16 | 2.28 | 2.41 | 2.54 | 2.66 | 2.79 |
| 8                | 1431        | 1.43       | 1.57 | 1.72 | 1.86 | 2.00 | 2.15 | 2.29 | 2.43 | 2.58 | 2.72 | 2.86 | 3.01 | 3.15 |
| 9                | 1593        | 1.59       | 1.75 | 1.91 | 2.07 | 2.23 | 2.39 | 2.55 | 2.71 | 2.87 | 3.03 | 3.19 | 3.35 | 3.50 |
| 10               | 1755        | 1.76       | 1.93 | 2.11 | 2.28 | 2.46 | 2.63 | 2.81 | 2.98 | 3.16 | 3.33 | 3.51 | 3.69 | 3.86 |
| 11               | 1917        | 1.92       | 2.11 | 2.30 | 2.49 | 2.68 | 2.88 | 3.07 | 3.26 | 3.45 | 3.64 | 3.83 | 4.03 | 4.22 |
| 12               | 2079        | 2.08       | 2.29 | 2.49 | 2.70 | 2.91 | 3.12 | 3.33 | 3.53 | 3.74 | 3.95 | 4.16 | 4.37 | 4.57 |
| 13               | 2241        | 2.24       | 2.47 | 2.69 | 2.91 | 3.14 | 3.36 | 3.59 | 3.81 | 4.03 | 4.26 | 4.48 | 4.71 | 4.93 |
| 14               | 2403        | 2.40       | 2.64 | 2.88 | 3.12 | 3.36 | 3.60 | 3.84 | 4.09 | 4.33 | 4.57 | 4.81 | 5.05 | 5.29 |
| 15               | 2565        | 2.57       | 2.82 | 3.08 | 3.33 | 3.59 | 3.85 | 4.10 | 4.36 | 4.62 | 4.87 | 5.13 | 5.39 | 5.64 |
| 16               | 2727        | 2.73       | 3.00 | 3.27 | 3.55 | 3.82 | 4.09 | 4.36 | 4.64 | 4.91 | 5.18 | 5.45 | 5.73 | 6.00 |
| 17               | 2889        | 2.89       | 3.18 | 3.47 | 3.76 | 4.04 | 4.33 | 4.62 | 4.91 | 5.20 | 5.49 | 5.78 | 6.07 | 6.36 |
| 18               | 3051        | 3.05       | 3.36 | 3.66 | 3.97 | 4.27 | 4.58 | 4.88 | 5.19 | 5.49 | 5.80 | 6.10 | 6.61 | 6.71 |

## Aeraulic performance $A_a$ (m<sup>2</sup>)

| Number of blades | Length (cm) | Width (cm) |      |      |      |      |      |      |      |      |      |      |      |      |
|------------------|-------------|------------|------|------|------|------|------|------|------|------|------|------|------|------|
|                  |             | 1000       | 1100 | 1200 | 1300 | 1400 | 1500 | 1600 | 1700 | 1800 | 1900 | 2000 | 2100 | 2200 |
| 6                | 1107        | 0.66       | 0.73 | 0.81 | 0.88 | 0.95 | 1.02 | 1.09 | 1.16 | 1.23 | 1.30 | 1.37 | 1.44 | 1.51 |
| 7                | 1269        | 0.77       | 0.85 | 1.01 | 1.01 | 1.09 | 1.17 | 1.25 | 1.34 | 1.43 | 1.52 | 1.60 | 1.69 | 1.77 |
| 8                | 1431        | 0.87       | 0.96 | 1.05 | 1.15 | 1.24 | 1.33 | 1.44 | 1.54 | 1.63 | 1.72 | 1.82 | 1.91 | 2.00 |
| 9                | 1593        | 0.97       | 1.07 | 1.18 | 1.28 | 1.39 | 1.51 | 1.61 | 1.72 | 1.82 | 1.93 | 2.03 | 2.13 | 2.24 |
| 10               | 1755        | 1.07       | 1.19 | 1.30 | 1.43 | 1.55 | 1.67 | 1.78 | 1.90 | 2.01 | 2.13 | 2.24 | 2.36 | 2.48 |
| 11               | 1917        | 1.18       | 1.30 | 1.43 | 1.57 | 1.70 | 1.83 | 1.95 | 2.08 | 2.21 | 2.33 | 2.46 | 2.58 | 2.71 |
| 12               | 2079        | 1.28       | 1.42 | 1.57 | 1.71 | 1.85 | 1.99 | 2.12 | 2.26 | 2.40 | 2.53 | 2.67 | 2.81 | 2.95 |
| 13               | 2241        | 1.38       | 1.53 | 1.70 | 1.85 | 2.00 | 2.14 | 2.29 | 2.44 | 2.59 | 2.74 | 2.89 | 3.03 | 3.18 |
| 14               | 2403        | 1.48       | 1.67 | 1.82 | 1.98 | 2.14 | 2.30 | 2.46 | 2.62 | 2.78 | 2.94 | 3.10 | 3.26 | 3.40 |
| 15               | 2565        | 1.59       | 1.78 | 1.95 | 2.12 | 2.29 | 2.46 | 2.63 | 2.80 | 2.97 | 3.14 | 3.31 | 3.48 | 3.61 |
| 16               | 2727        | 1.69       | 1.90 | 2.08 | 2.26 | 2.44 | 2.62 | 2.80 | 2.98 | 3.17 | 3.35 | 3.53 | 3.71 | 3.82 |
| 17               | 2889        | 1.80       | 2.01 | 2.20 | 2.40 | 2.59 | 2.78 | 2.97 | 3.16 | 3.36 | 3.55 | 3.74 | 3.91 | 4.03 |
| 18               | 3051        | 1.92       | 2.13 | 2.33 | 2.53 | 2.74 | 2.94 | 3.14 | 3.35 | 3.55 | 3.75 | 3.96 | 4.11 | 4.23 |

## Electrical performance of motor

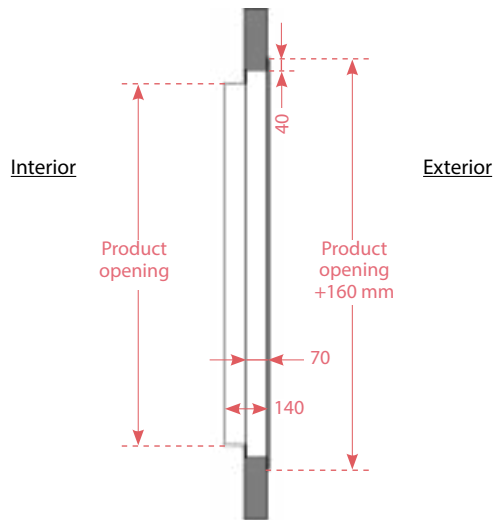
| Dimensions (cm) | Current (A) | Voltage (V) |
|-----------------|-------------|-------------|
| All sizes       | 1.1         | 24          |

When using the ARCAFAÇADE® ELECTRIC EVOLUTION exclusively for electric ventilation, the unit can be equipped with a 230-volt electric jack.

## Frame types

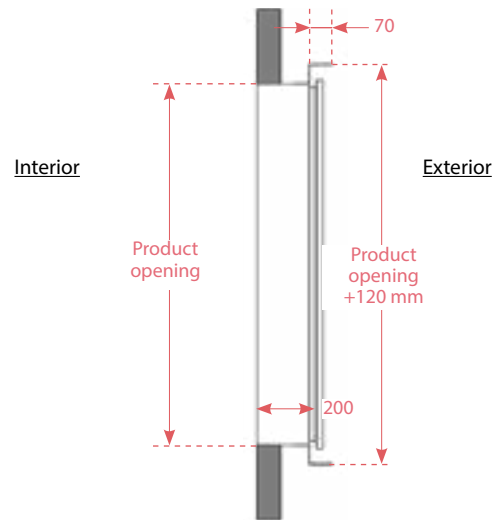
### FACADE MOUNT

Type A

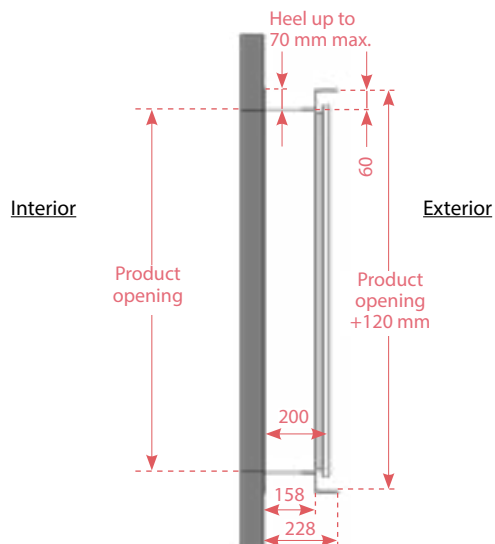


Type DT

= Type SR with no heel

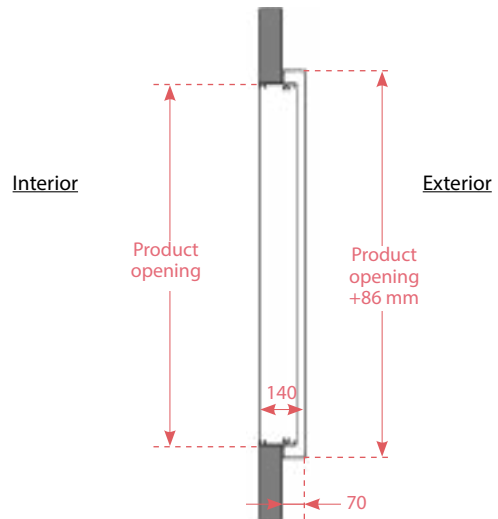


Type SR



Type T

= Type A with no flashing







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For other applications and conditions of use, please contact our technical team. Their advice must be sought concerning uses of our products that are not described specifically herein.

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