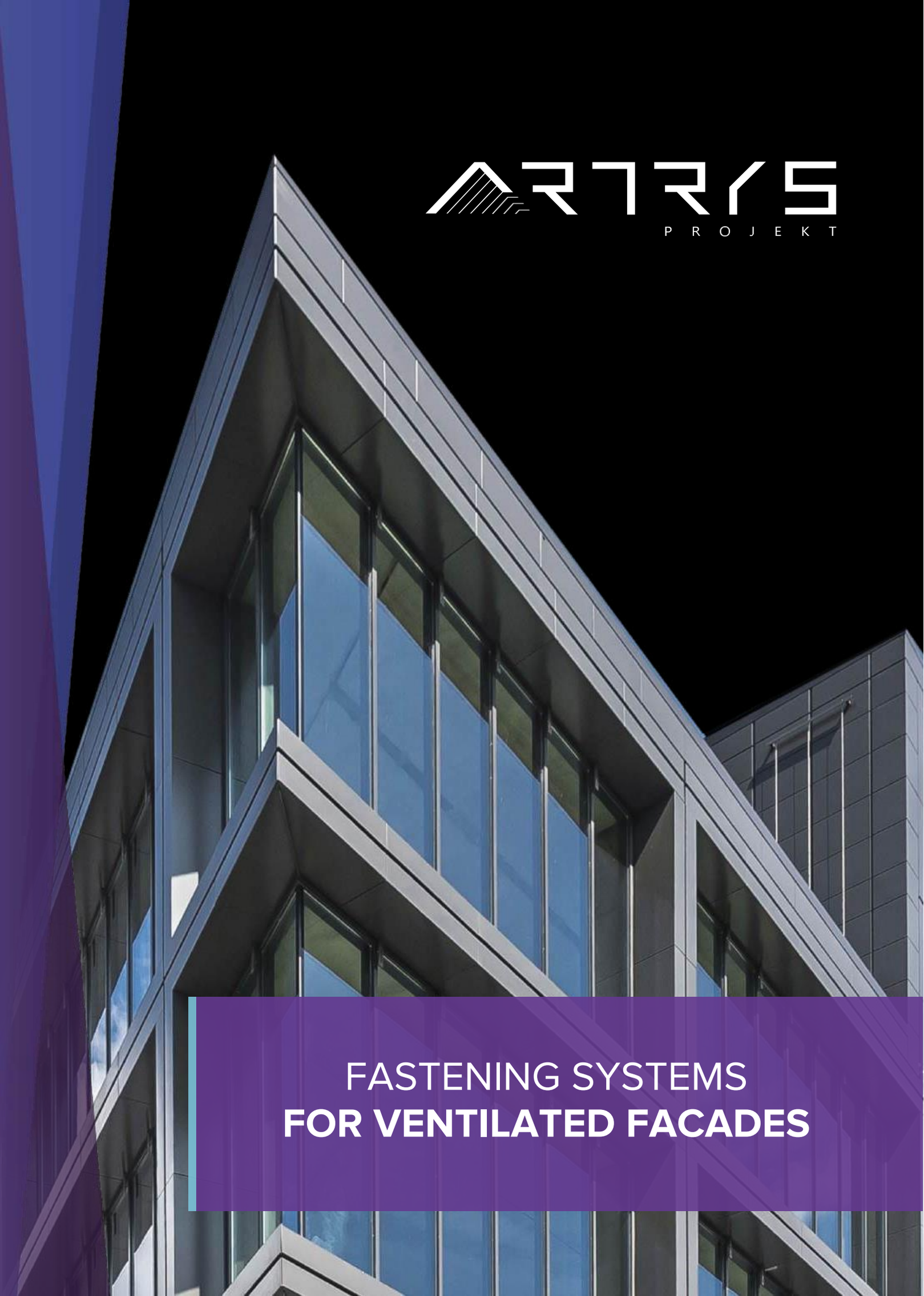


ARTRYS
PROJEKT

# FASTENING SYSTEMS
# **FOR VENTILATED FACADES**

# TABLE OF CONTENTS




LATTE estate, Sokratesa Street, Warsaw


# ABOUT US

ARTRYS PROJECT is an experienced construction company specialising in the design, installation and sale of fastening systems for ventilated facades. We are a leader in this sector thanks to our passion for development and our commitment to every project.

Our primary objective is to provide comprehensive installation services concerning ventilated facades, including the supply of materials, installation, design and coordination, i.e., the preparation of design documents, supervision of ventilated facade installation and technical consulting.

ARTRYS PROJEKT is also a manufacturer of aluminium and passive subframe systems, fastening systems and various kinds of flashings. We deliver and arrange cladding panels.

- Team of qualified specialists
- Over 450 thousand $m^2$ of completed facades
- Over 700 completed facade designs
- Experienced installation crews
- Reliable business partner
- Sustainable development

# MANUFACTURING PLANT

Our manufacturing plant has the latest CNC technologies and machinery to produce high-quality components for ventilated facades that meet the requirements of industry standards and guidelines of the Building Research Institute.

We prioritise innovation and continuous development, which is why we keep investing in advanced technologies and improving our production processes.

We make efforts to mitigate our environmental impact. We comply with the principles of sustainable development, using environmentally friendly materials and production processes that allow us to limit CO2 emissions and reduce waste.

# VENTILATED **FACADES**

Ventilated facades are a solution for modern, energy-efficient buildings. They use a ventilation gap between the insulation layer and the exterior cladding panel fixed to the load-bearing structure. The gap enables unrestricted air circulation and systematic ventilation of the installed materials. The wide range of subframe systems enables the installation of many different cladding panels such as fibre-cement, concrete, HPL, ceramic and WPC panels; aluminium and steel cassettes and aluminium louvres. The final result is aesthetically pleasing and far better-looking than standard plaster facades.

# ADVANTAGES OF **VENTILATED FACADES:**

- visual effect
- thermal insulation
- sound proofing
- fire resistance
- durability
- easy maintenance
- continuous ventilation of cladding panels and insulation
- year-round dry installation

# SYMBOLS

Tested at universities, technical universities and institutions other than ITB.

Strength tests. Material fatigue tests.

Fire resistance classification. Tested acc. to § 225 of the Reg. of the Min. of Infrastructure.

National Technical Assessment.

Tested by ITB.

Passive system.

Corrosion resistance tests.

Tested according to European standards. Tested by an accredited body.

Angel Wings building – Wrocław

# SUBFRAME SYSTEMS **FOR VENTILATED FACADES**

ARTRYS offers a wide, complete range of specialised systems designed with modern facades in mind. Brackets and aluminium profiles serve as the base of the system and are designed to easily level out any unevenness of the wall (thanks to 30-mm adjustment of the profile). We offer three types of brackets: aluminium, passive PRO and stainless steel and passive. Each bracket comes in two sizes:

## ARTRYS BRACKET **LARGE**

Artrys Bracket Large (with BL marking) are large brackets used to bear the weight of the panel and subframe as well as resist wind forces. They are used to fix the aluminium profiles so they are unable to slide. In special cases, particularly with larger outreaches, they can be used as small brackets.

## ARTRYS BRACKET **MEDIUM**

Artrys Bracket Medium (with BM marking) are small brackets used to resist wind forces. BM brackets are fixed to aluminium profiles using bean-shaped openings to accommodate longitudinal thermal extension of the profiles. In special cases, particularly with small outreaches, they can be used as large brackets.

ARTRYS systems have been tested repeatedly at the Building Research Institute in mechanical, fire and thermal tests. In order to ensure the compatibility of our products with cladding panels available on the market, we are constantly conducting tests with leading manufacturers in accredited institutes.

Artrys systems, regardless of the bracket type used, meet the requirements for fire protection in accordance with §225 of the Regulation of the Minister of Infrastructure. They have been tested with multiple cladding panels as part of the complete assembly. The range of opinions issued by ITB proves this.

The impact of each bracket on the value of the heat-transfer coefficient of the external partition has been tested at the Department of Thermal Physics. According to the requirements and conditions for external walls, it should not exceed 0.20 W/(m2*K) as of 2021.

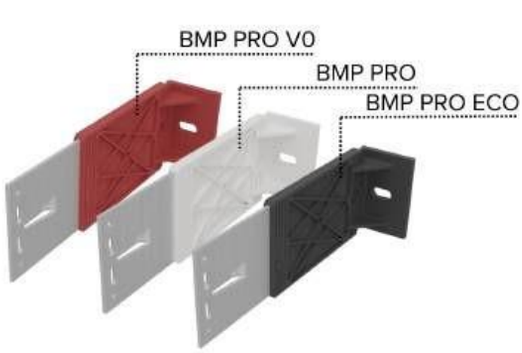
# PRO PASSIVE BRACKETS

PRO PASSIVE BRACKETS are the flagship product of Artrys. Made of both aluminium (or stainless steel) and plastic elements, the brackets have outstanding insulation parameters and
practically eliminate the thermal bridge phenomenon. The strength of the plastic insert is improved by its special ribbing and the use of fibreglass.

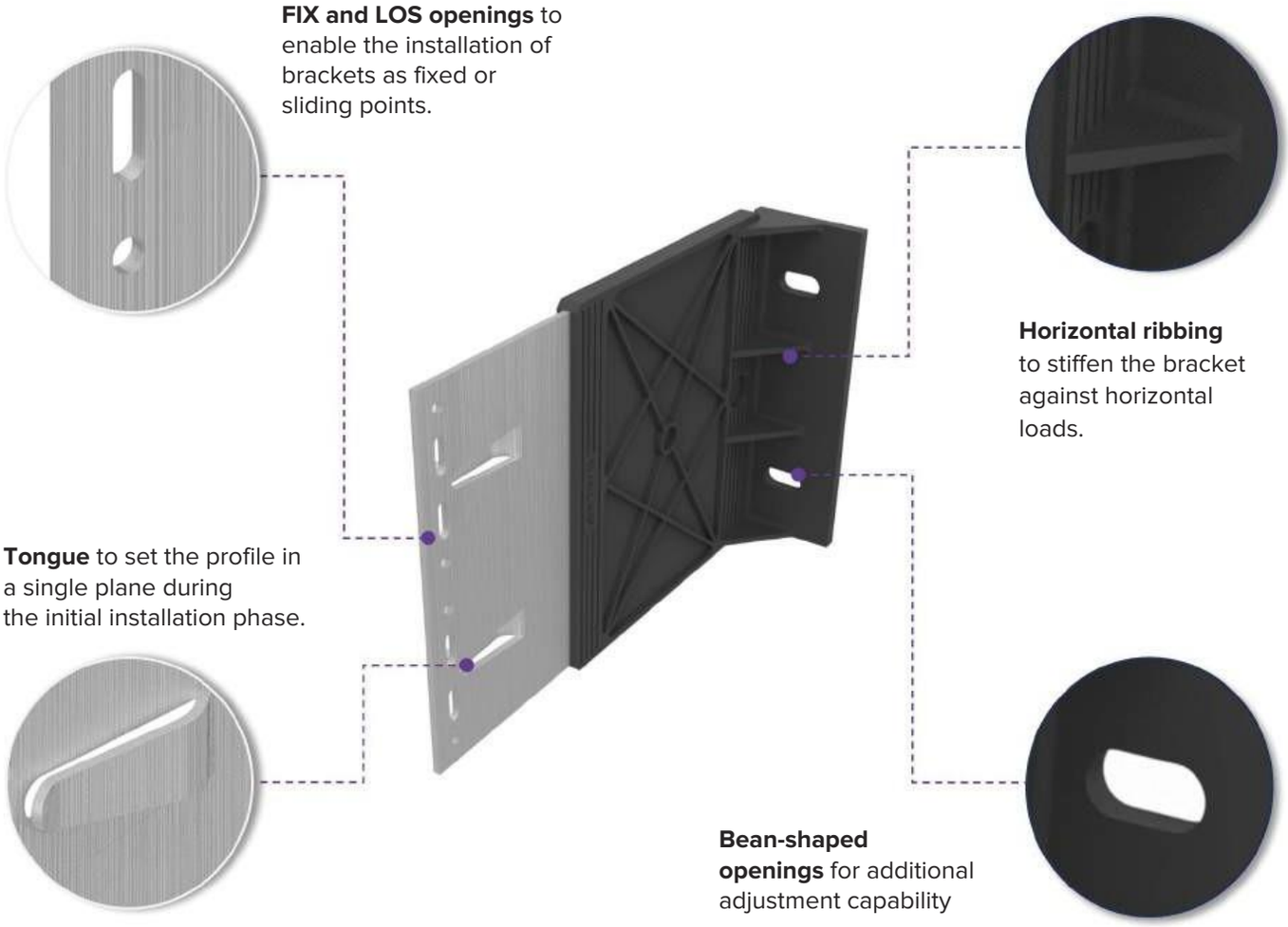
Office building, Poleczki Street, Warsaw

## AVAILABLE VARIANTS

### **ALUMINIUM** INSERT

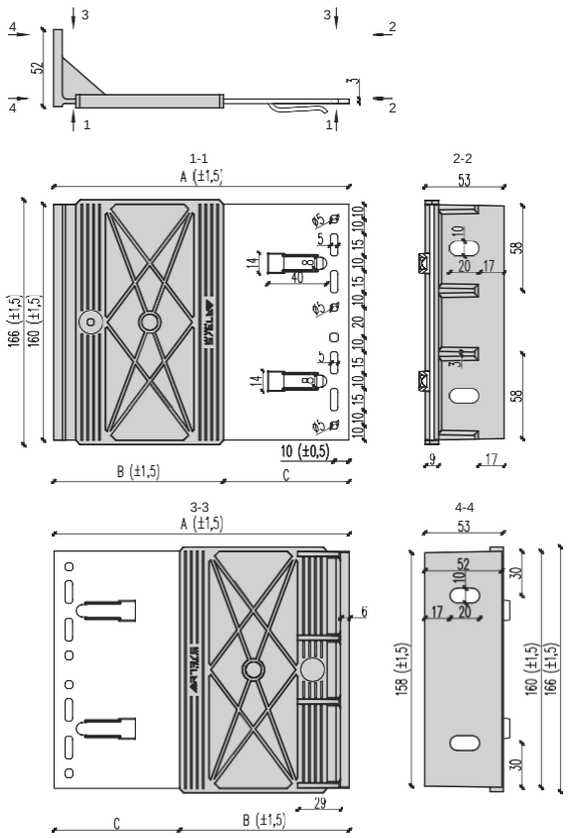




### **STAINLESS STEEL** INSERT

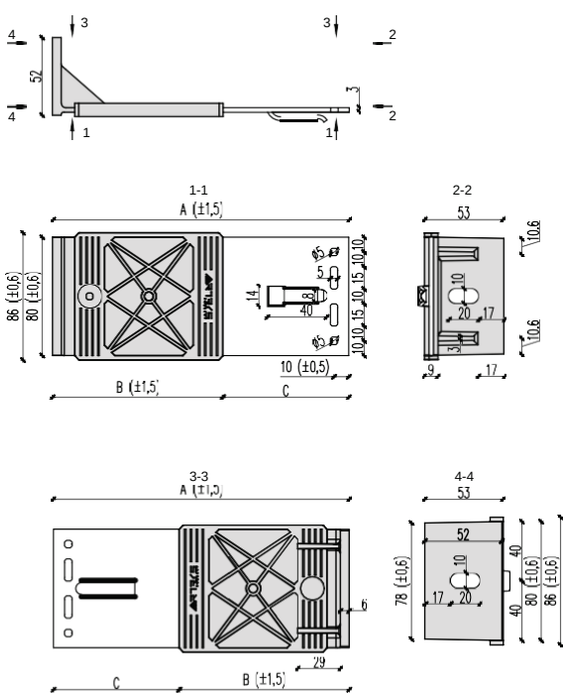

| | **PRO ECO** | PRO S ECO | **PRO V0** | PRO S V0 | PRO | PRO S |
|---|---|---|---|---|---|---|
| Plastic insert | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Plastic (PA66 GF50) | | | | | ✓ | ✓ |
| Recycled plastic (PA OMIAMID 6.6 IM GF50 BC) | ✓ | ✓ | | | | |
| Fire-retardant plastic (PA6 GF40 FR V0) | | | ✓ | ✓ | | |
| Aluminium insert (EN AW 6060/6063/6005 T6/T66) | ✓ | | ✓ | | ✓ | |
| Stainless steel insert (304/316) | | ✓ | | ✓ | | ✓ |
| Minimum thermal bridge | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suitable for facades of up to 25 m in height | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Suitable for facades of more than 25 m in height | | | ✓ | ✓ | | |

# **BLP PRO** BRACKET SIZES




| Bracket type | A [mm] | B [mm] | C [mm] |
|---|---|---|---|
| ARTRYS Bracket Large Passive PRO – BLP 160 PRO | 160 | 95 | 65 |
| ARTRYS Bracket Large Passive PRO – BLP 180 PRO | 180 | 115 | 65 |
| ARTRYS Bracket Large Passive PRO – BLP 200 PRO | 200 | 115 | 85 |
| ARTRYS Bracket Large Passive PRO – BLP 220 PRO | 220 | 155 | 65 |
| ARTRYS Bracket Large Passive PRO – BLP 240 PRO | 240 | 155 | 85 |
| ARTRYS Bracket Large Passive PRO – BLP 260 PRO | 260 | 155 | 105 |
| ARTRYS Bracket Large Passive PRO – BLP 280 PRO | 280 | 155 | 125 |
| ARTRYS Bracket Large Passive PRO - BLP | 300 | 155 | 145 |

# **BMP PRO** BRACKET SIZES




| Bracket type | A [mm] | B [mm] | C [mm] |
|---|---|---|---|
| ARTRYS Bracket Medium Passive PRO – BMP 160 PRO | 160 | 95 | 65 |
| ARTRYS Bracket Medium Passive PRO – BMP 180 PRO | 180 | 115 | 65 |
| ARTRYS Bracket Medium Passive PRO – BMP 200 PRO | 200 | 115 | 85 |
| ARTRYS Bracket Medium Passive PRO – BMP 220 PRO | 220 | 155 | 65 |
| ARTRYS Bracket Medium Passive PRO – BMP 240 PRO | 240 | 155 | 85 |
| ARTRYS Bracket Medium Passive PRO – BMP 260 PRO | 260 | 155 | 105 |
| ARTRYS Bracket Medium Passive PRO – BMP 280 PRO | 280 | 155 | 125 |
| ARTRYS Bracket Medium Passive PRO – BMP 300 PRO | 300 | 155 | 145 |

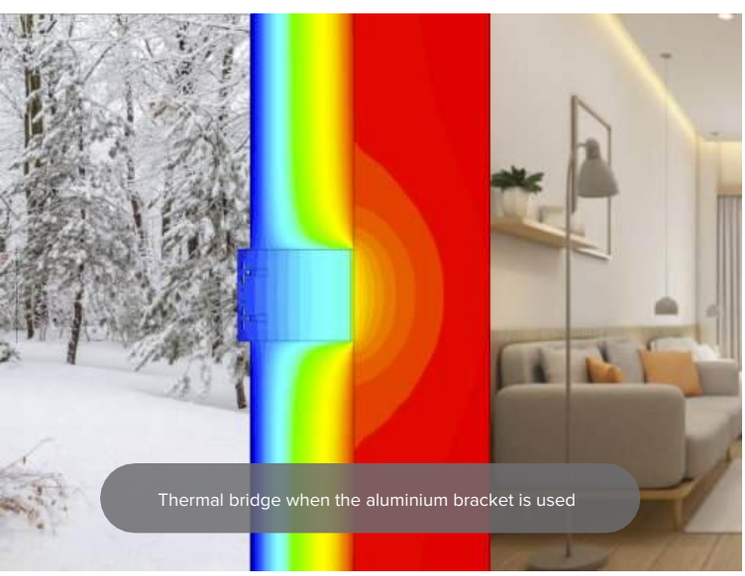
# IMPROVE THE ENERGY PERFORMANCE OF YOUR BUILDING

**The energy performance of a building** is its energy efficiency, i.e., the extent to which the building can ensure thermal comfort to its users with the lowest possible consumption of heating or cooling energy.

One of the ways of improving thermal performance is to provide suitable insulation for the walls and mitigate so-called thermal bridges.

Aluminium or steel structures required for the installation of various types of cladding significantly contribute to thermal bridges, increasing heat losses.

This problem can be solved with **PRO passive brackets**, which contain plastic inserts that break the thermal bridge in the insulation layer.





| Wall | Insulation thickness [mm] | Heat transfer coefficient for the wall without the subframe* [W/(m²*K)] | Point heat transfer coefficient of the bracket [W/K] | |
|---|---|---|---|---|
| | | | BLP PRO | BMP PRO |
| Reinforced concrete (2% reinforcement) | 150 | ≤ 0.2154 | ≤ 0.0038 | ≤ 0.0023 |
| | 180 | ≤ 0.1819 | ≤ 0.0050 | ≤ 0.0031 |
| | 200 | ≤ 0.1647 | ≤ 0.0058 | ≤ 0.0036 |
| Concrete | 150 | ≤ 0.2134 | ≤ 0.0037 | ≤ 0.0022 |
| | 180 | ≤ 0.1804 | ≤ 0.0049 | ≤ 0.0030 |
| | 200 | ≤ 0.1635 | ≤ 0.0058 | ≤ 0.0036 |
| Calcium-silicate brick | 150 | ≤ 0.2078 | ≤ 0.0036 | ≤ 0.0021 |
| | 180 | ≤ 0.1764 | ≤ 0.0047 | ≤ 0.0029 |
| | 200 | ≤ 0.1602 | ≤ 0.0055 | ≤ 0.0034 |
| Hollow brick | 150 | ≤ 0.1943 | ≤ 0.0031 | ≤ 0.0018 |
| | 180 | ≤ 0.1666 | ≤ 0.0043 | ≤ 0.0025 |
| | 200 | ≤ 0.1521 | ≤ 0.0050 | ≤ 0.0031 |

*mineral wool insulation with λ = 0.035 W/(mK)

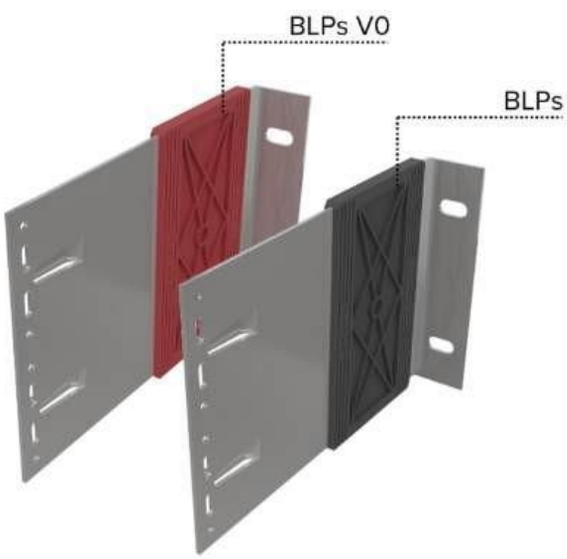
Required heat transfer coefficient for the wall according to the Regulation of the Minister of Infrastructure **U ≤ 0.20 W/(m2*K)**

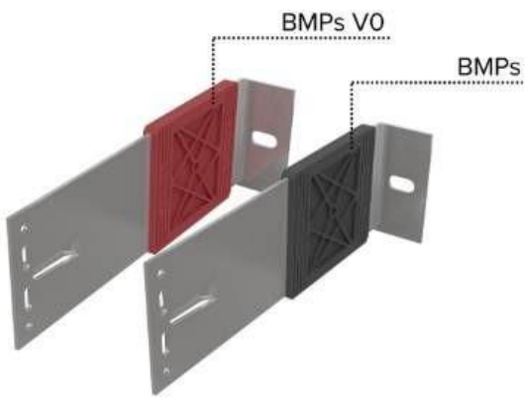
# PASSIVE AND **STAINLESS STEEL BRACKETS**

PASSIVE AND STAINLESS STEEL BRACKETS are the latest product of Artrys. Made of both stainless steel and plastic elements, the brackets have outstanding insulation parameters and practically eliminate the thermal bridge phenomenon. The strength of the plastic insert is improved by its special ribbing and the use of fibreglass, while the stainless steel insert improves corrosion resistance.

Hilton Hotel, Warsaw

## AVAILABLE VARIANTS



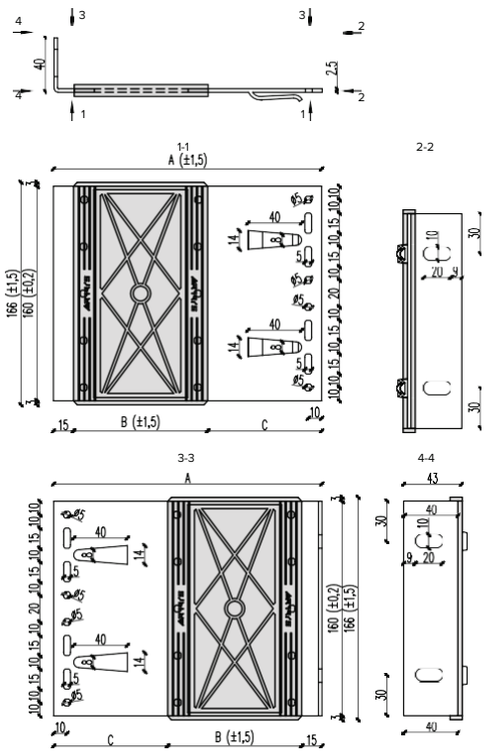



# **BLPs** BRACKET SIZES

| Bracket type | A [mm] | B [mm] | C [mm] |
|---|---|---|---|
| ARTRYS Bracket Large Passive S – BLPs 160 | 160 | 100 | 45 |
| ARTRYS Bracket Large Passive S – BLPs 180 | 180 | 100 | 65 |
| ARTRYS Bracket Large Passive S – BLPs 200 | 200 | 100 | 85 |
| ARTRYS Bracket Large Passive S – BLPs 220 | 220 | 100 | 105 |
| ARTRYS Bracket Large Passive S – BLPs 240 | 240 | 100 | 125 |
| ARTRYS Bracket Large Passive S – BLPs 260 | 260 | 100 | 145 |
| ARTRYS Bracket Large Passive S – BLPs 280 | 280 | 100 | 165 |
| ARTRYS Bracket Large Passive S – BLPs 300 | 300 | 100 | 185 |

**BLPs material:**
Stainless steel 304/316
Polyamide PA66 GR50 or PA OMIAMID 6.6 IM GF50 BC

**BLPs V0 material:**
Stainless steel 304/316
Polyamide PA66 H2 G/50-V0KB1 or PA6 GF40 FR V0

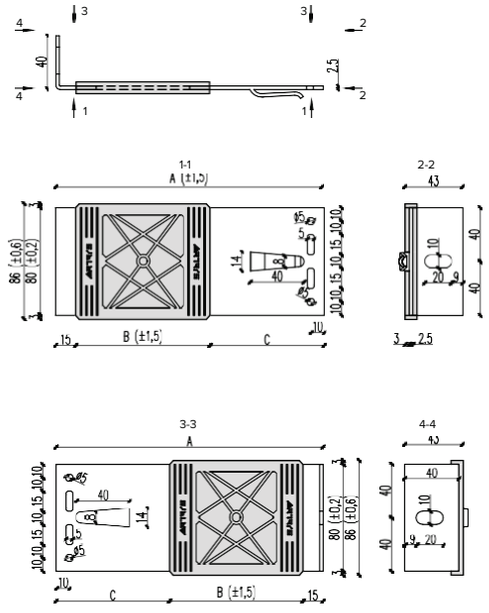



# **BMPs** BRACKET SIZES

| Bracket type | A [mm] | B [mm] | C [mm] |
|---|---|---|---|
| ARTRYS Bracket Medium Passive S – BMPs 160 | 160 | 100 | 45 |
| ARTRYS Bracket Medium Passive S – BMPs 180 | 180 | 100 | 65 |
| ARTRYS Bracket Medium Passive S – BMPs 200 | 200 | 100 | 85 |
| ARTRYS Bracket Medium Passive S – BMPs 220 | 220 | 100 | 105 |
| ARTRYS Bracket Medium Passive S – BMPs 240 | 240 | 100 | 125 |
| ARTRYS Bracket Medium Passive S – BMPs 260 | 260 | 100 | 145 |
| ARTRYS Bracket Medium Passive S – BMPs 280 | 280 | 100 | 165 |
| ARTRYS Bracket Medium Passive S – BMPs 300 | 300 | 100 | 185 |

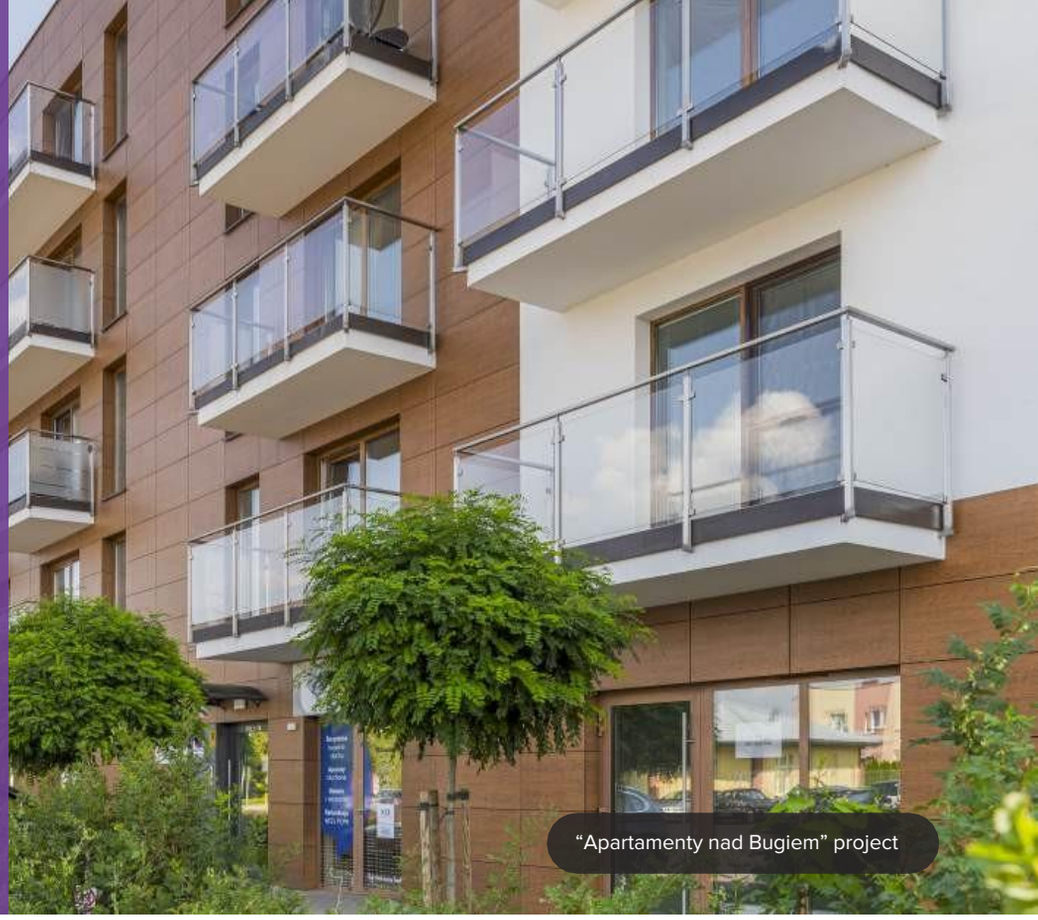
**BMPs material:**
Stainless steel 304/316
Polyamide PA66 GR50 or PA OMIAMID 6.6 IM GF50 BC

**BMPs V0 material:**
Stainless steel 304/316
Polyamide PA66 H2 G/50-V0KB1 or PA6 GF40 FR V0



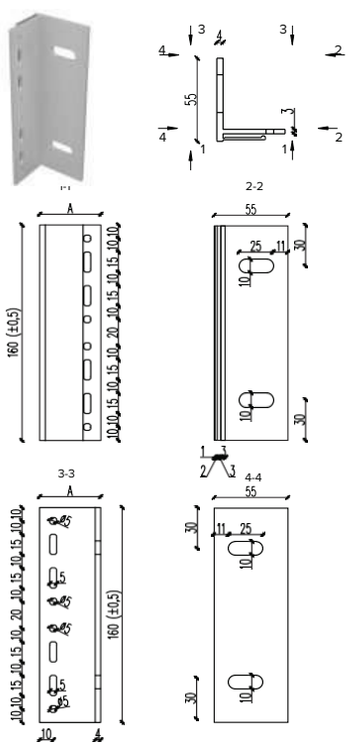
# ALUMINIUM **BRACKETS**

ALUMINIUM BRACKETS are the standard solution used where a low heat transfer coefficient is not required. To reduce bridges, they are combined with PVC thermostops. They come in various lengths, from 60 mm to 300 mm (in 20-mm increments). Brackets with 35-mm and 45-mm arms are also available for exceptionally short outreaches.



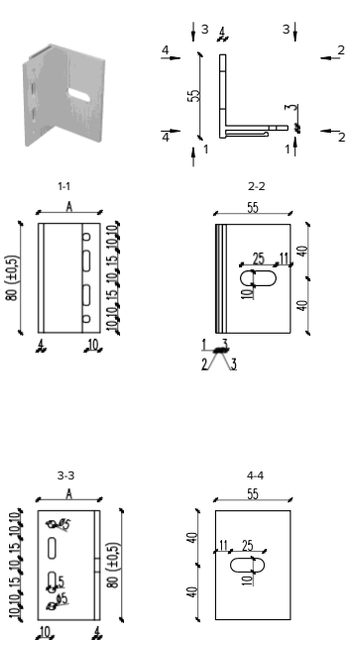
"Apartamenty nad Bugiem" project

## **SHORT OUTREACH** BRACKET SIZES




| Bracket type | A [mm] |
|---|---|
| ARTRYS Bracket Large New – BLN 35 | 35 |
| ARTRYS Bracket Large New – BLN 45 | 45 |

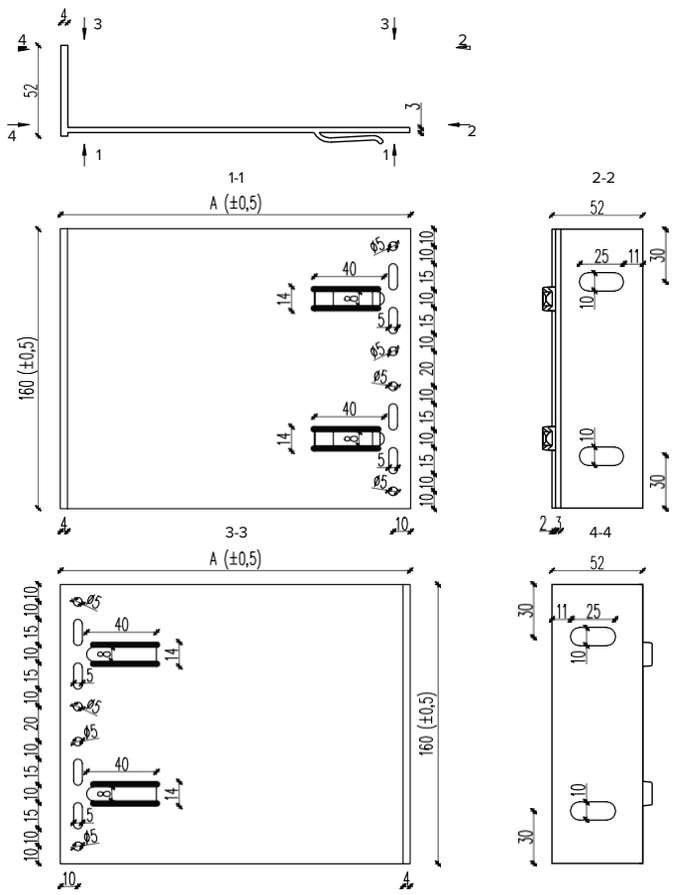
**Material:**
Aluminium EN AW 6060 T6




| Bracket type | A [mm] |
|---|---|
| ARTRYS Bracket Medium New – BMN 35 | 35 |
| ARTRYS Bracket Medium New – BMN 45 | 45 |

**Material:**
Aluminium EN AW 6060 T6

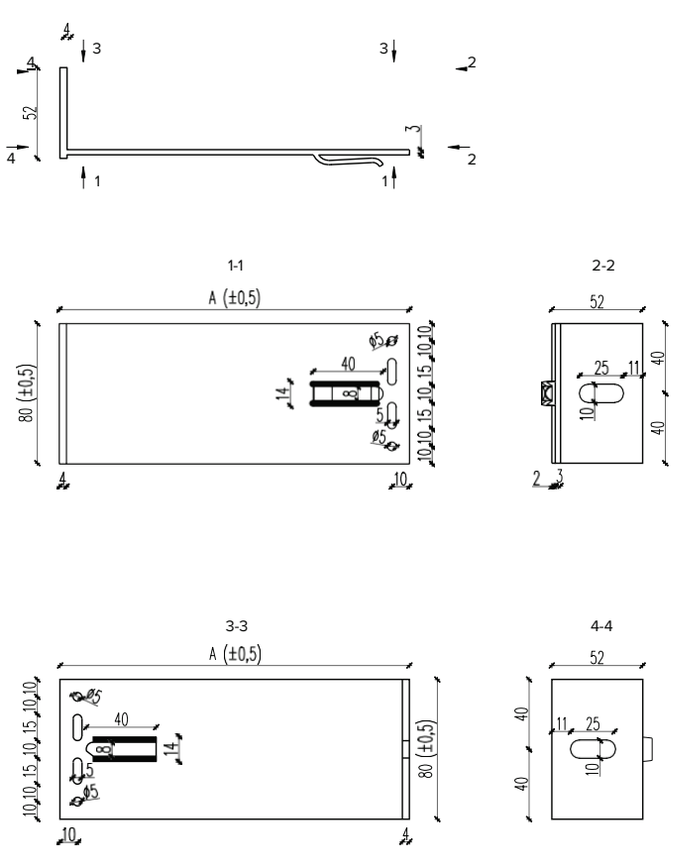
# **BLN** BRACKET SIZES




| Bracket type | A [mm] |
|---|---|
| ARTRYS Bracket Large New – BLN 60 | 60 |
| ARTRYS Bracket Large New – BLN 80 | 80 |
| ARTRYS Bracket Large New – BLN 100 | 100 |
| ARTRYS Bracket Large New – BLN 120 | 120 |
| ARTRYS Bracket Large New – BLN 140 | 140 |
| ARTRYS Bracket Large New – BLN 160 | 160 |
| ARTRYS Bracket Large New – BLN 180 | 180 |
| ARTRYS Bracket Large New – BLN 200 | 200 |
| ARTRYS Bracket Large New – BLN | 220 |
| ARTRYS Bracket Large New – BLN 240 | 240 |
| ARTRYS Bracket Large New – BLN | 260 |
| ARTRYS Bracket Large New – BLN 280 | 280 |
| ARTRYS Bracket Large New – BLN | 300 |

**Material:**
Aluminium EN AW 6060 T6

# **BMN** BRACKET SIZES




| Bracket type | A [mm] |
|---|---|
| ARTRYS Bracket Medium New – BMN 60 | 60 |
| ARTRYS Bracket Medium New – BMN 80 | 80 |
| ARTRYS Bracket Medium New – BMN 100 | 100 |
| ARTRYS Bracket Medium New – BMN 120 | 120 |
| ARTRYS Bracket Medium New – BMN 140 | 140 |
| ARTRYS Bracket Medium New – BMN 160 | 160 |
| ARTRYS Bracket Medium New – BMN 180 | 180 |
| ARTRYS Bracket Medium New – BMN 200 | 200 |
| ARTRYS Bracket Medium New – BMN 220 | 220 |
| ARTRYS Bracket Medium New – BMN 240 | 240 |
| ARTRYS Bracket Medium New – BMN 260 | 260 |
| ARTRYS Bracket Medium New – BMN 280 | 280 |
| ARTRYS Bracket Medium New – BMN 300 | 300 |

**Material:**
Aluminium EN AW 6060 T6

# ALUMINIUM **EXTENSIONS**

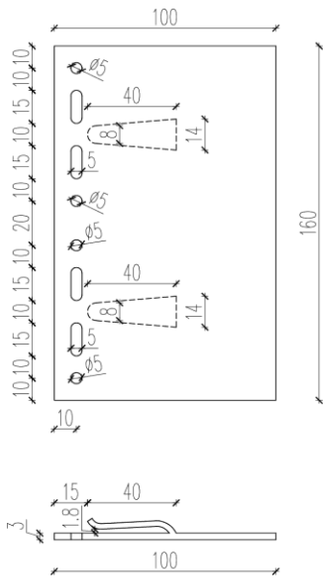
ALUMINIUM EXTENSION PIECES are optional accessories extending the bracket arm. They are best suited for uneven surfaces and various types of overhangs.

Residential building, Legnicka Street, Wrocław

# ALUMINIUM EXTENSION **EL 100**

**Material:**

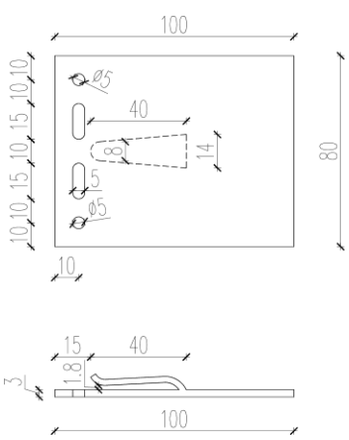
Aluminium EN AW 6060/6063/6005 T6/T66




# ALUMINIUM EXTENSION **EM 100**

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66



# PVC
# **THERMOSTOPS**

PVC thermostops are made of FFE07 free-foam sheets with a very low heat transfer coefficient. They separate materials with different pH to prevent electrolytic corrosion. They are the best choice for aluminium brackets.

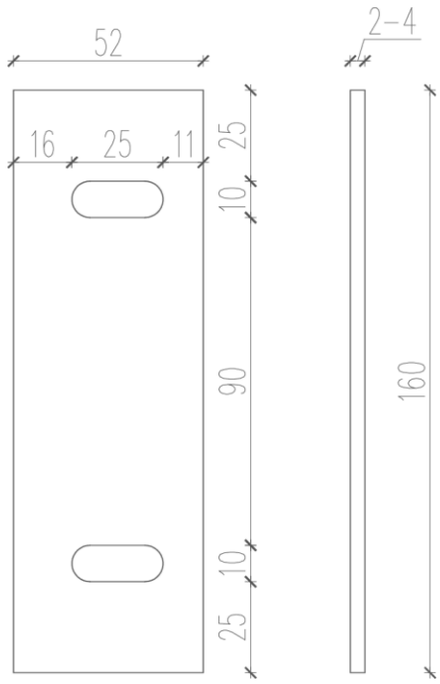
Port Praski estate, Warsaw

# **PVC-L** THERMOSTOP

**Material:**

FFE07 free-foam sheet



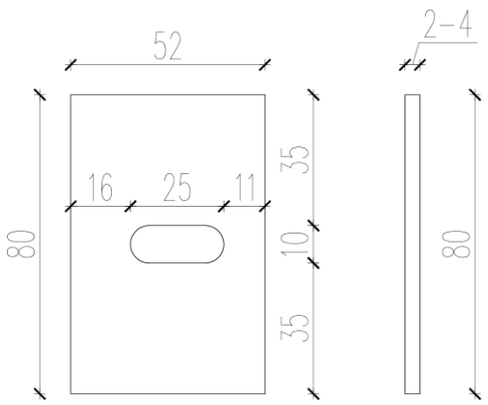



# **PVC-M** THERMOSTOP

**Material:**

FFE07 free-foam sheet





# STANDARD **ALUMINIUM PROFILES**

STANDARD ALUMINIUM PROFILES are profiles fixed directly to brackets. They support cladding panels. They are selected depending on the panel fixing system and type. They come in several different sizes to match different applications. Cladding on outside corners can be fastened using the ALPc profile.

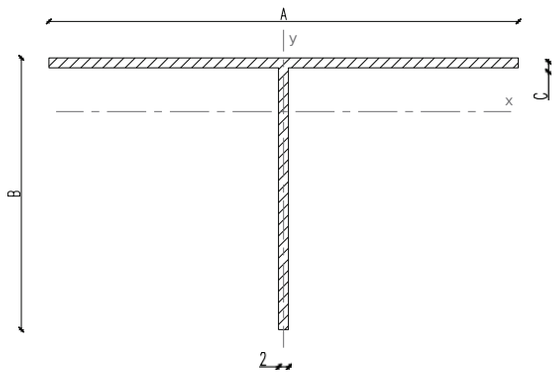
PJATK University, Warsaw

## **ATP** PROFILE

## **ALP** PROFILE

# **ATP** PROFILE SIZES

| Profile type | A [mm] | B [mm] | C [mm] |
|---|---|---|---|
| ARTRYS T Profile – ATP 105/55/1.5/2 | 105 | 55 | 1.5 |
| ARTRYS T Profile – ATP 95/55/1.5/2 | 95 | 55 | 1.5 |
| ARTRYS T Profile – ATP 135/55/2 | 135 | 55 | 2 |
| ARTRYS T Profile – ATP 105/55/2 | 105 | 55 | 2 |
| ARTRYS T Profile – ATP 95/55/2 | 95 | 55 | 2 |
| ARTRYS T Profile – ATP 75/55/2 | 75 | 55 | 2 |
| ARTRYS T Profile – ATP 95/45/2 | 95 | 45 | 2 |
| ARTRYS T Profile – ATP 95/35/2 | 95 | 35 | 2 |



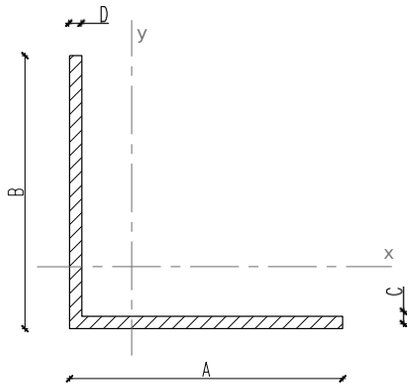

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm4] | Jy [cm4] | Wx [cm3] | Wy [cm3] | A [cm2] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS T Profile – ATP 105/55/1.5/2 | 14.47 | 7.37 | 1.71 | 2.76 | 2.65 | 0.72 |
| ARTRYS T Profile – ATP 95/55/1.5/2 | 10.72 | 7.18 | 1.69 | 2.26 | 2.49 | 0.68 |
| ARTRYS T Profile – ATP 135/55/2 | 41.01 | 8.25 | 1.78 | 6.08 | 3.76 | 1.02 |
| ARTRYS T Profile – ATP 105/55/2 | 19.30 | 7.82 | 1.75 | 3.68 | 3.16 | 0.86 |
| ARTRYS T Profile – ATP 95/55/2 | 14.29 | 7.63 | 1.73 | 3.01 | 2.96 | 0.80 |
| ARTRYS T Profile – ATP 75/55/2 | 7.18 | 7.03 | 1.69 | 1.88 | 2.56 | 0.70 |
| ARTRYS T Profile – ATP 95/45/2 | 14.29 | 4.33 | 1.17 | 3.01 | 2.76 | 0.75 |
| ARTRYS T Profile – ATP 95/35/2 | 14.29 | 2.11 | 0.71 | 3.01 | 2.56 | 0.70 |

# **ALP** PROFILE SIZES

| Profile type | A [mm] | B [mm] | C [mm] | D [mm] |
|---|---|---|---|---|
| ARTRYS L Profile – ALP 45/55/1.5/2 | 45 | 55 | 1.5 | 2 |
| ARTRYS L Profile – ALP 45/55/2 | 45 | 55 | 2 | 2 |
| ARTRYS L Profile – ALP 45/45/2 | 45 | 45 | 2 | 2 |
| ARTRYS L Profile – ALP 45/35/2 | 45 | 35 | 2 | 2 |
| ARTRYS L Profile – ALP 45/20/2 | 45 | 20 | 2 | 2 |
| ARTRYS L Profile – ALPc | 45 | 55 | 1.3 | 1.3 |




**Material:**

**Aluminium EN AW 6060/6063/6005 T6/T66**

| Profile type | Jx [cm4] | Jy [cm4] | Wx [cm3] | Wy [cm3] | A [cm2] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS L Profile – ALP 45/55/1.5/2 | 5.68 | 3.06 | 1.52 | 0.86 | 1.75 | 0.47 |
| ARTRYS L Profile – ALP 45/55/2 | 6.17 | 3.77 | 1.58 | 1.10 | 1.96 | 0.53 |
| ARTRYS L Profile – ALP 45/45/2 | 3.55 | 3.55 | 1.08 | 1.08 | 1.76 | 0.48 |
| ARTRYS L Profile – ALP 45/35/2 | 1.77 | 3.28 | 0.67 | 1.04 | 1.56 | 0.42 |
| ARTRYS L Profile – ALP 45/20/2 | 0.36 | 2.71 | 0.22 | 0.95 | 1.26 | 0.34 |
| ARTRYS L Profile – ALPc | 4.09 | 2.51 | 1.04 | 0.73 | 1.28 | 0.35 |

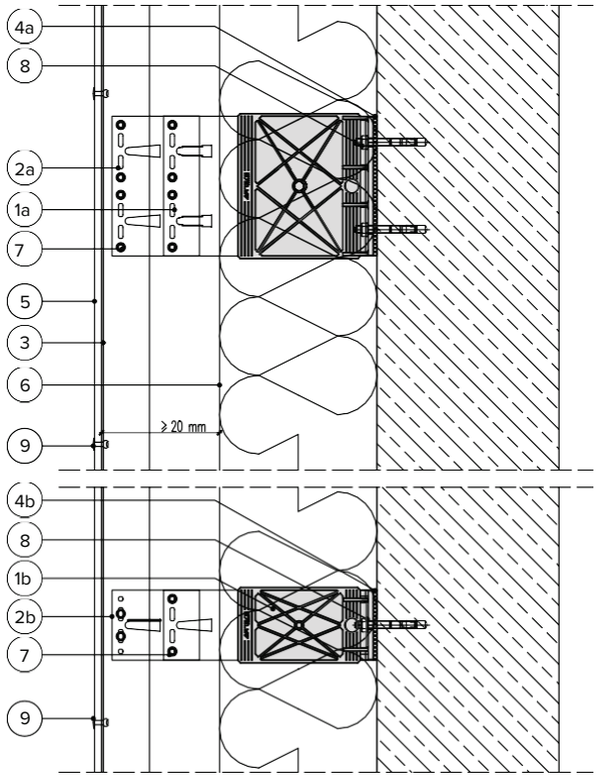
# VERTICAL **RIVETED SYSTEM**

The mechanical riveted system for fixing vertical ARTRYS profiles is one of the most popular solutions used in ventilated facades. When the panels are fixed with rivets, the installation work can be performed regardless of weather conditions, even in winter. The number of rivets and their layout on the panel depend on the requirements of the manufacturer of the cladding panels and static calculations. With rivet colours matching the panel colour, the fasteners become virtually unnoticeable from distances as small as a dozen metres.

Tax Office, Grodzisk Mazowiecki

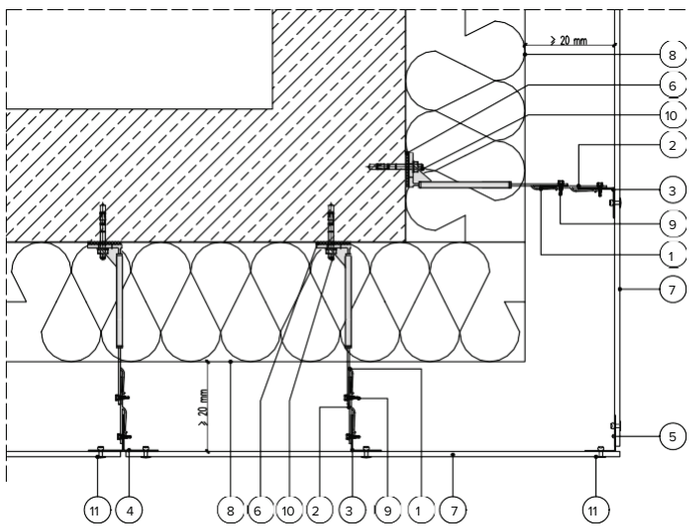
# SECTION **GENERAL**

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 4b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 8 | fastener fixing the bracket to the exterior wall |
| 9 | rivet fixing the panel to the profile |

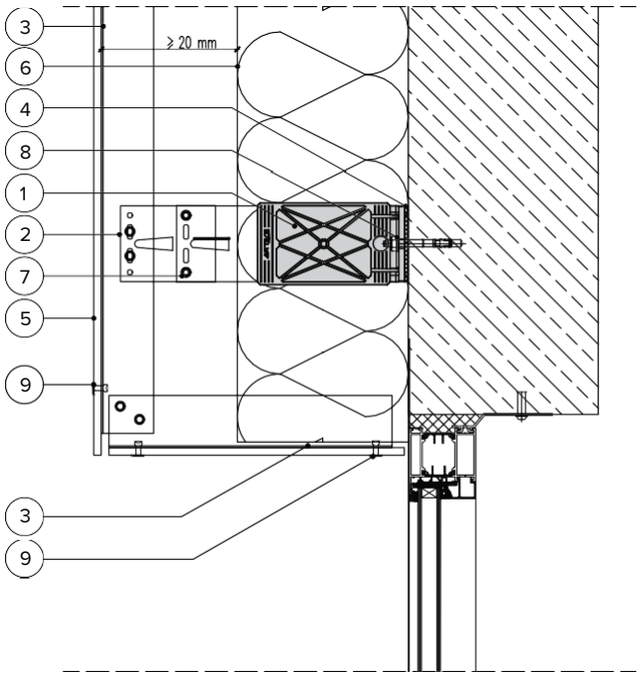



# PLAN **CORNER**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | ALPc aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | rivet fixing the panel to the profile |

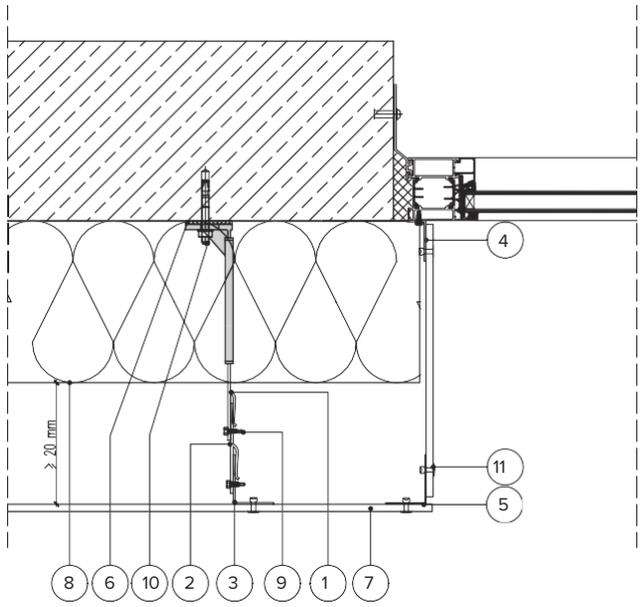


# SECTION – **WINDOW HEAD**




| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium |
| 8 | profile / fastener fixing the bracket to the |
| 9 | exterior wall<br>rivet fixing the panel to the profile |

# PLAN – **WINDOW JAMB**




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ALP 45/20/2 aluminium profile |
| 5 | ALPc aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | rivet fixing the panel to the profile |

# VERTICAL
# **RIVETED SYSTEM**

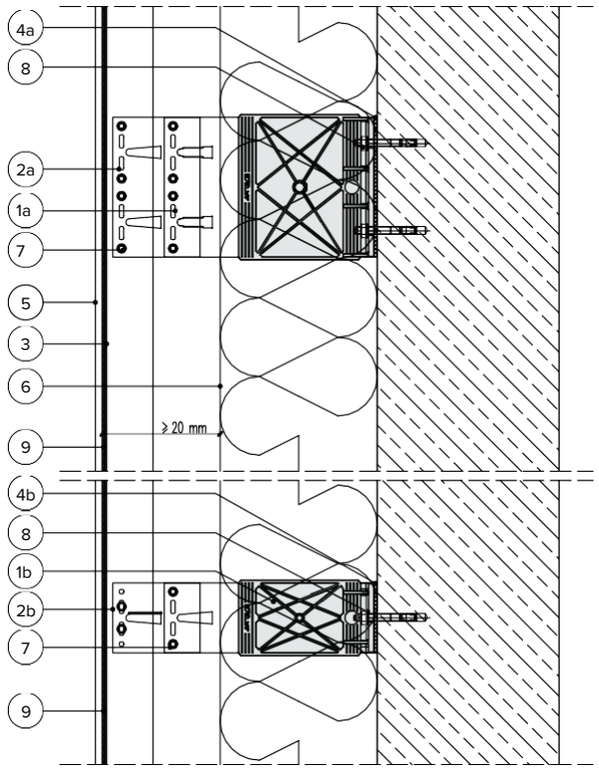
# VERTICAL **ADHESIVE SYSTEM**

The adhesive system for fixing vertical ARTRYS profiles is one of the most popular solutions used in ventilated facades. The fasteners are unnoticeable and aesthetic but can usually be installed only in very specific weather conditions.

Dental clinic, Babice Nowe

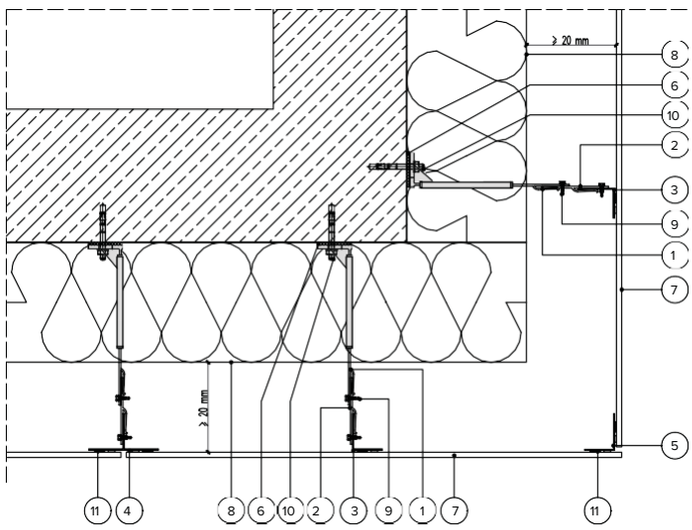
# SECTION **GENERAL**

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 4b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 8 | fastener fixing the bracket to the exterior wall |
| 9 | adhesive + tape |

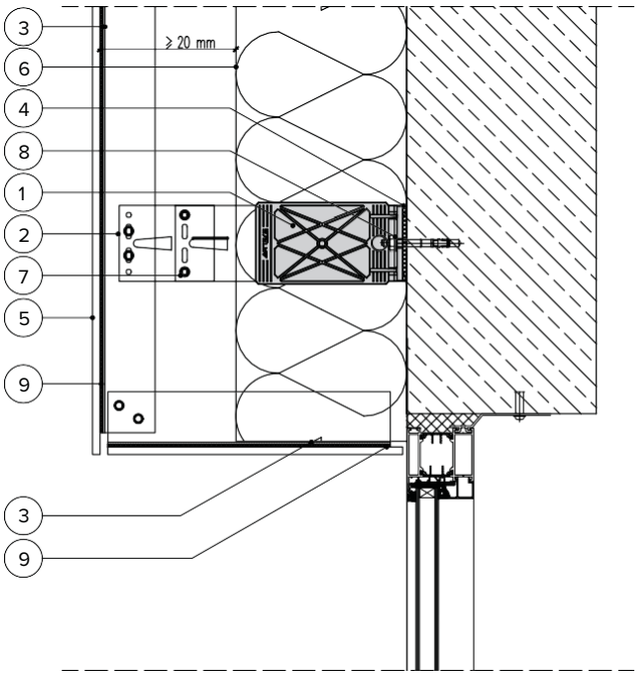



# PLAN **CORNER**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | ALPc aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | adhesive + tape |

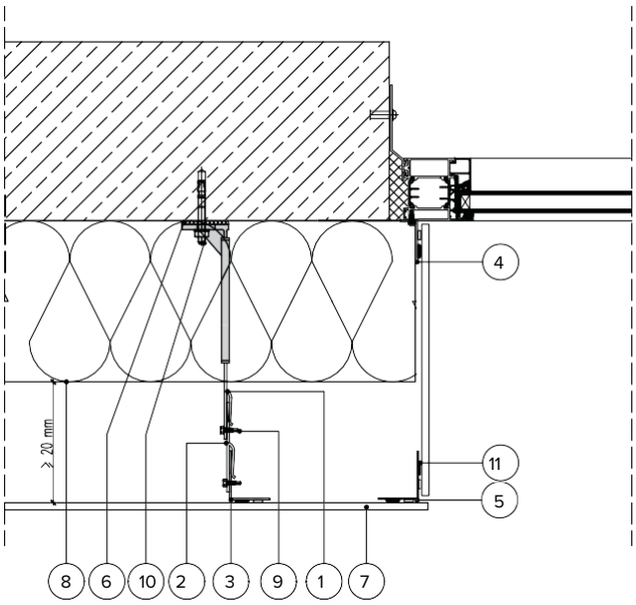


# SECTION – **WINDOW HEAD**



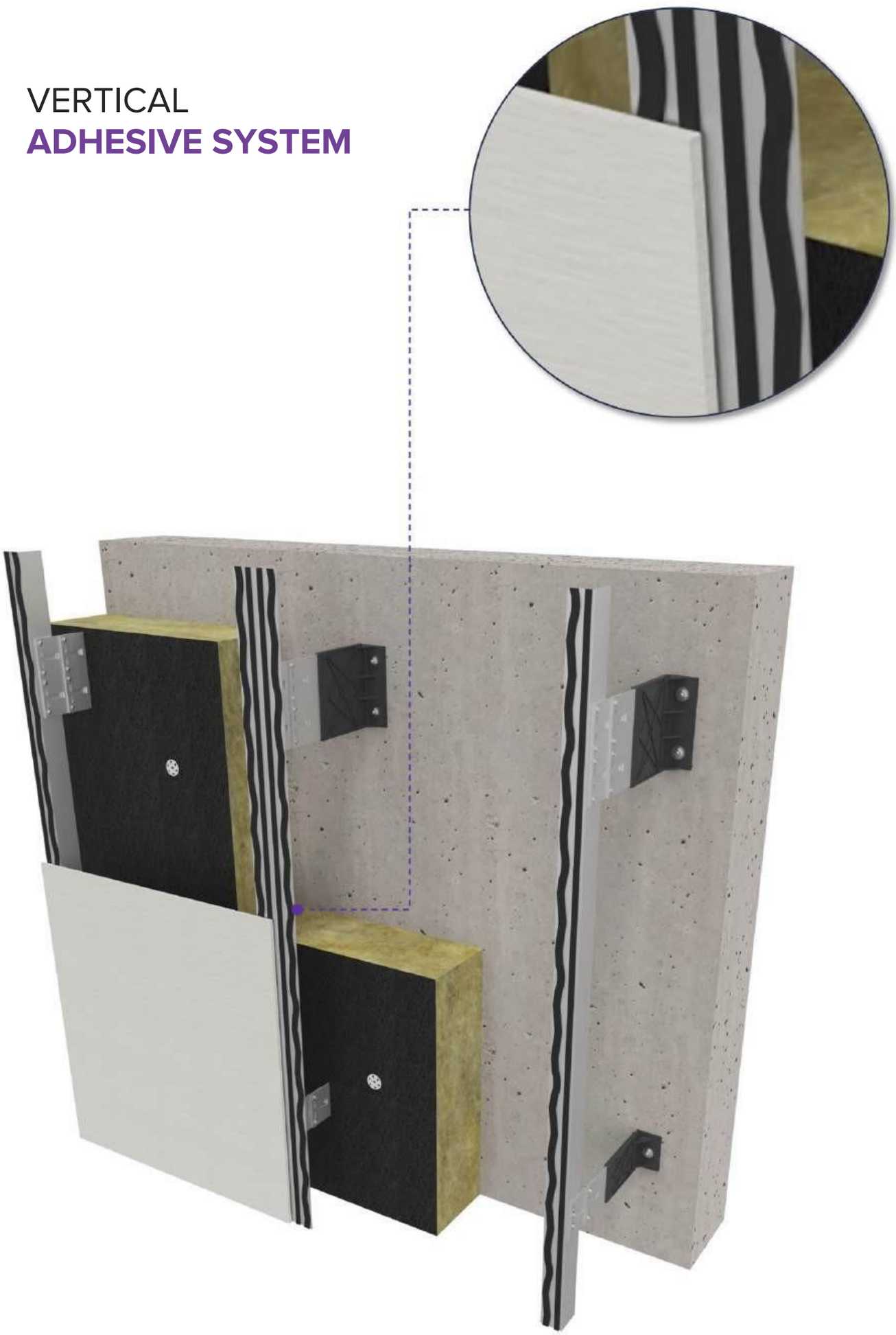

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 8 | fastener fixing the bracket to the exterior wall |
| 9 | adhesive + tape |

# PLAN – **WINDOW JAMB**




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ALP 45/20/2 aluminium profile |
| 5 | ALPc aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | adhesive + tape |

# VERTICAL
# **ADHESIVE SYSTEM**

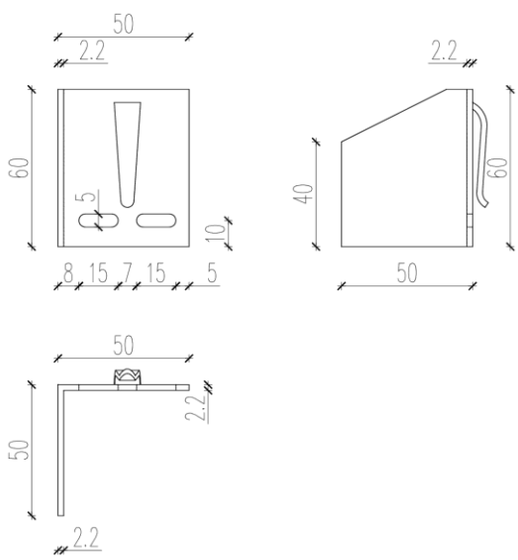


# HORIZONTAL **RIVETED SYSTEM**

The mechanical riveted system for fixing horizontal ARTRYS profiles is a solution particularly recommended for narrow panels. A special AD adapter is used to fasten horizontally arranged profiles to vertically arranged brackets. It enables correct transfer of loads to the strongest points of the bracket. When the panels are fixed with rivets, the installation work can be performed regardless of weather conditions, even in winter. The number of rivets and their layout on the panel depend on the requirements of the manufacturer of the cladding panels and static calculations. With rivet colours matching the panel colour, the fasteners become virtually unnoticeable from distances as small as a dozen metres.

Elementary school, Ząbki

## ARTRYS ADAPTER **AD**

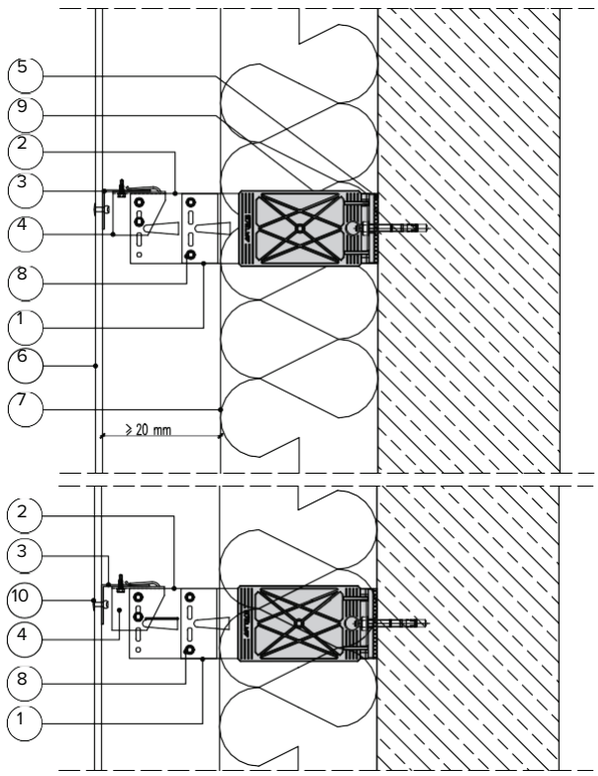



**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

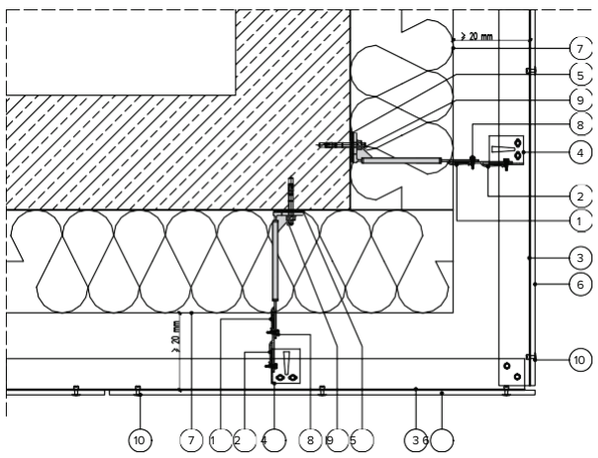
# SECTION **GENERAL**

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | AD adapter |
| 5 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

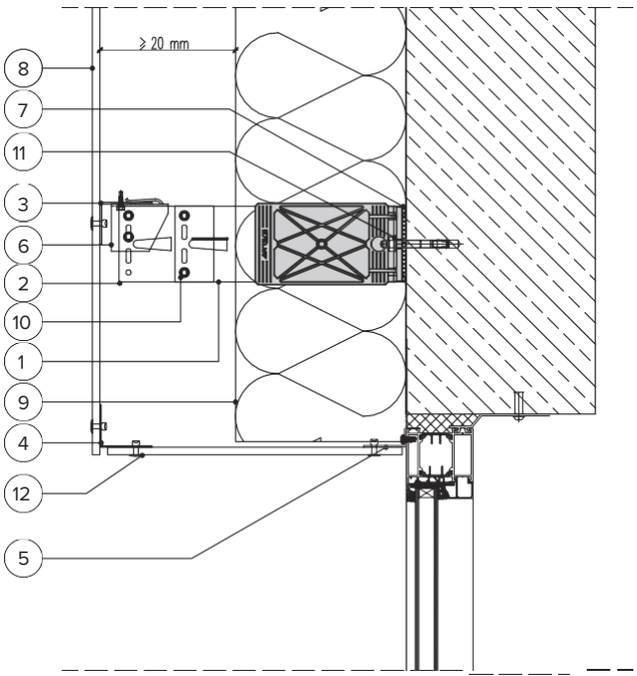



# PLAN **CORNER**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | AD adapter |
| 5 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

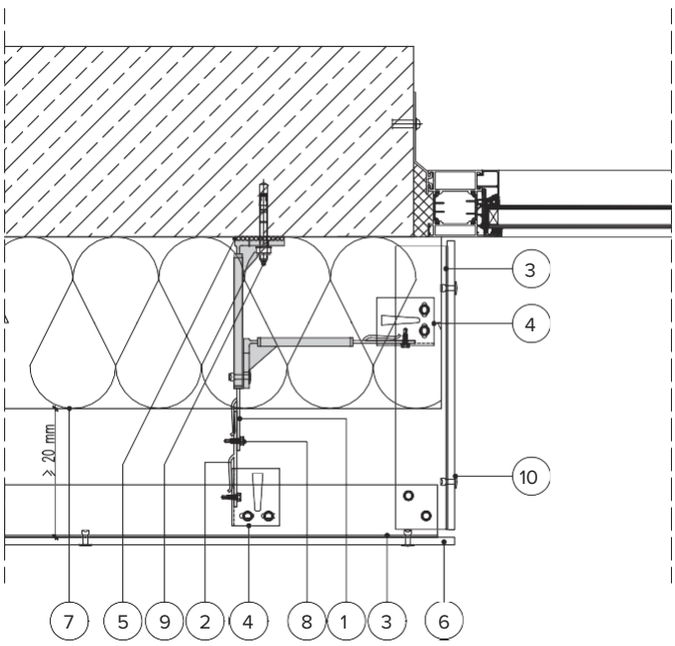


# SECTION – **WINDOW HEAD**



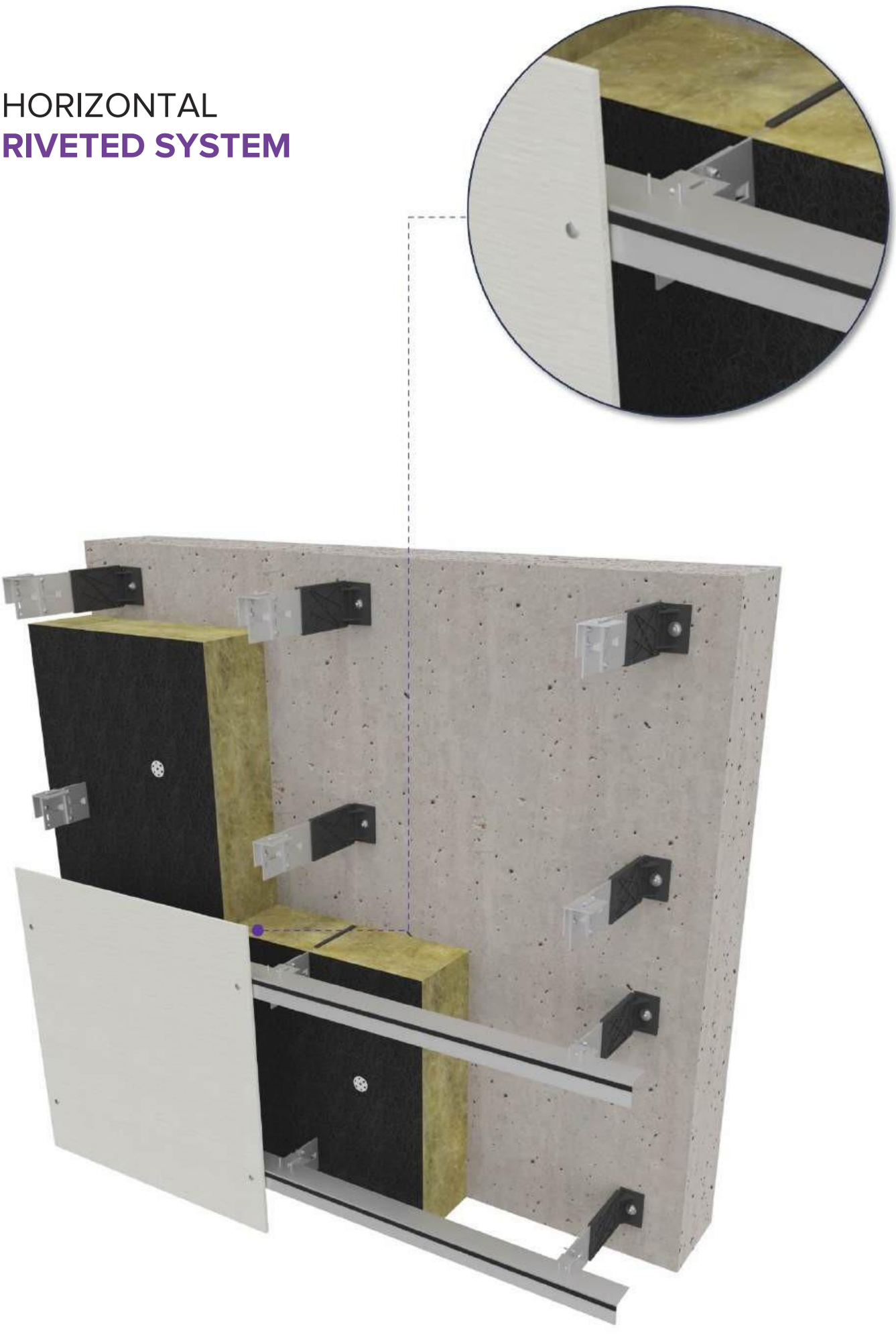

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ALPc aluminium profile |
| 5 | ALP 45/20/2 aluminium profile |
| 6 | AD adapter |
| 7 | PVC-U foam thermostop for the BMP PRO ECO bracket |
| 8 | cladding panel |
| 9 | mineral wool with tissue |
| 10 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 11 | fastener fixing the bracket to the exterior |
| 12 | wall rivet fixing the panel to the profile |

# PLAN – **WINDOW JAMB**




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | AD adapter |
| 5 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

# HORIZONTAL
# **RIVETED SYSTEM**

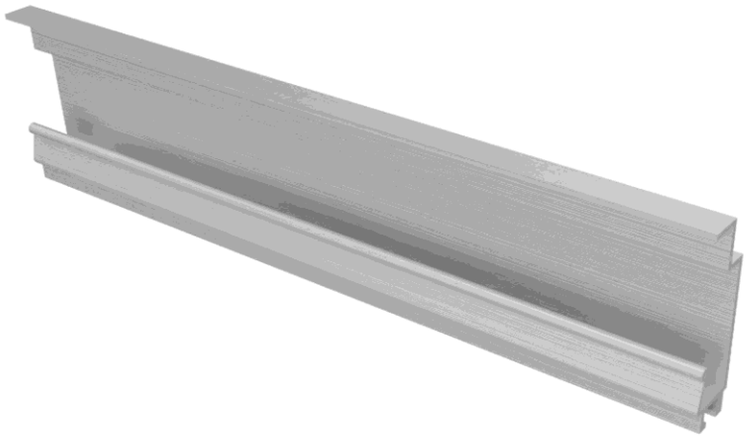


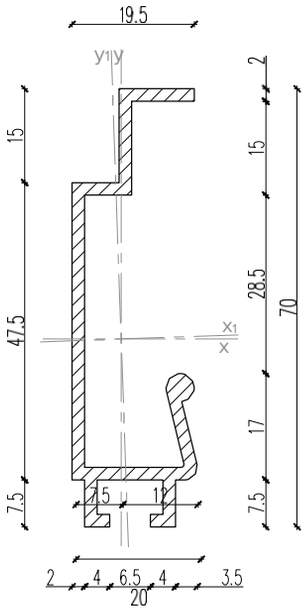
# AGRAFFE **SYSTEM**

The agraffe system enables concealed mechanical installation of the panels. The special AGP profile is fixed horizontally to vertical profiles using screws. The panel is suspended on horizontal AGP profiles thanks to the attached AG grips. The grips are attached to the panel using so-called under-cut anchors. The grips enable vertical adjustment of the panel using a screw and a locked nut. The system is easy to install (all year round) and produces the same visual effect as in adhesive systems.


Shopping centre, Otwock

# ARTRYS GRIP PROFILE – **AGP1**



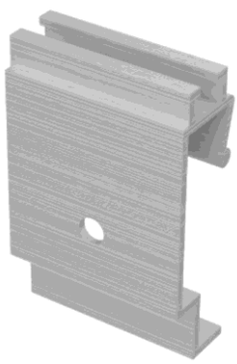


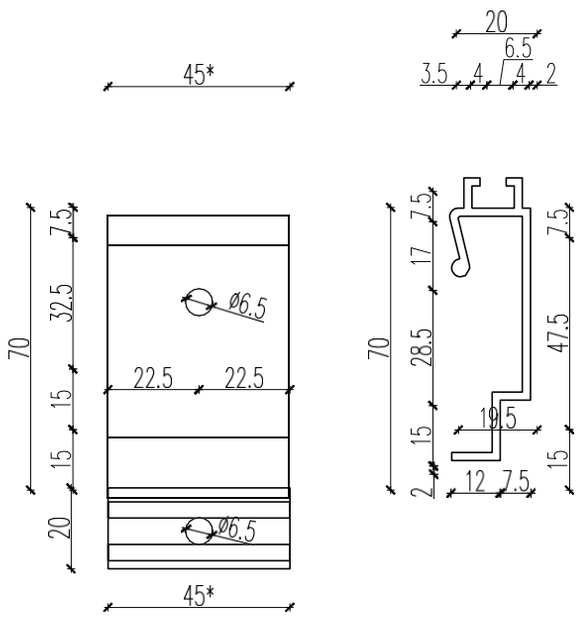

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS GRIP PROFILE – AGP1 | 13.94 | 13.95 | 1.19 | 1.18 | 3.49 | 3.49 | 0.98 | 0.90 | 2.71 | 0.74 |

# ARTRYS GRIP – **AG1**

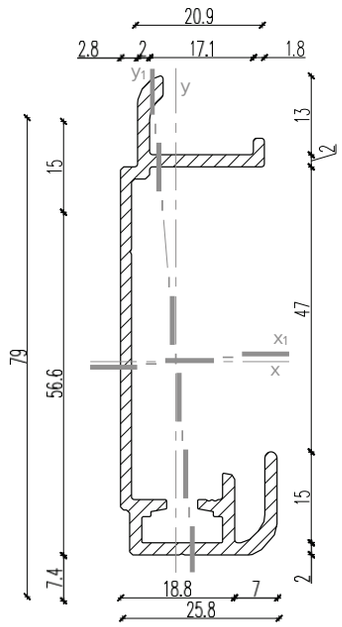





**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

# ARTRYS GRIP PROFILE – **AGP2**

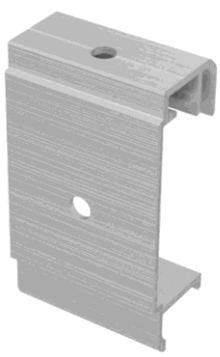


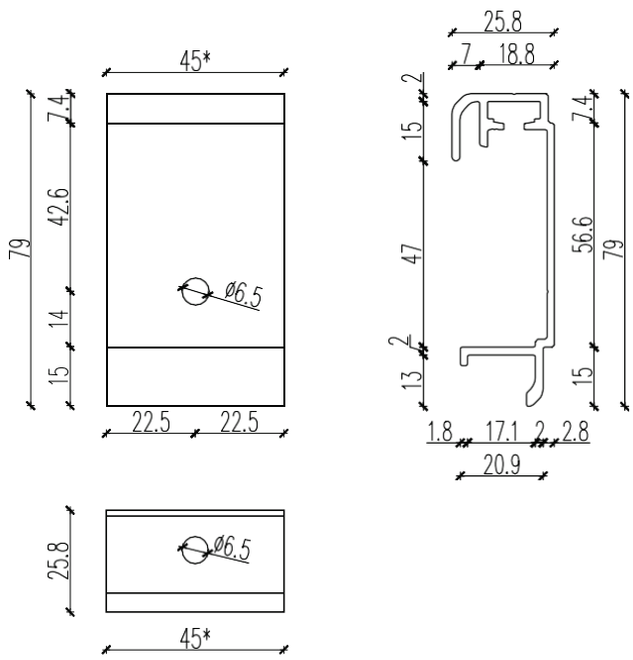

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS GRIP PROFILE – AGP2 | 23.29 | 23.50 | 2.37 | 2.17 | 4.94 | 4.98 | 1.42 | 1.23 | 3.16 | 0.86 |

# ARTRYS GRIP – **AG2**

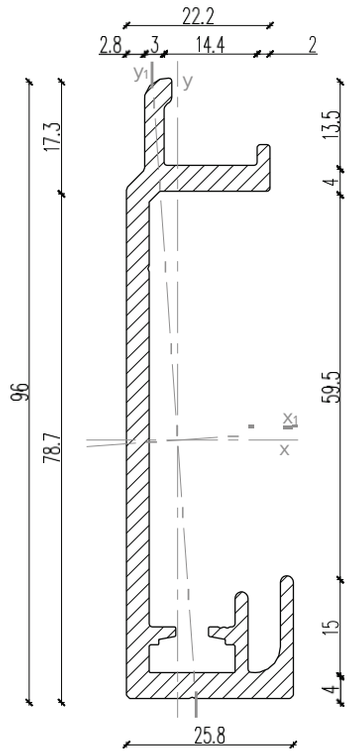





**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

# ARTRYS GRIP PROFILE – **AGP3**

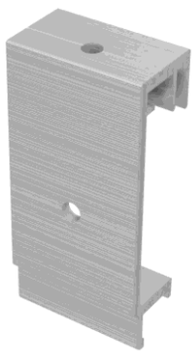


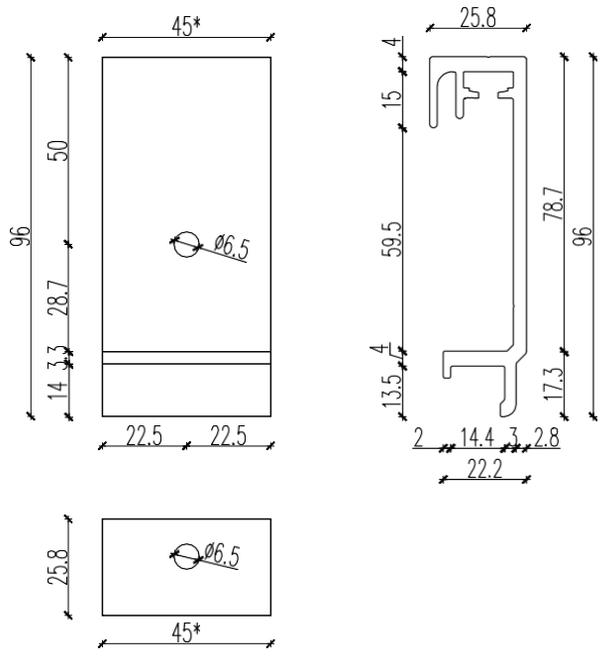

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS GRIP PROFILE – AGP3 | 59.15 | 59.39 | 3.65 | 3.41 | 10.56 | 10.31 | 2.04 | 1.96 | 5.72 | 1.56 |

# ARTRYS GRIP – **AG3**



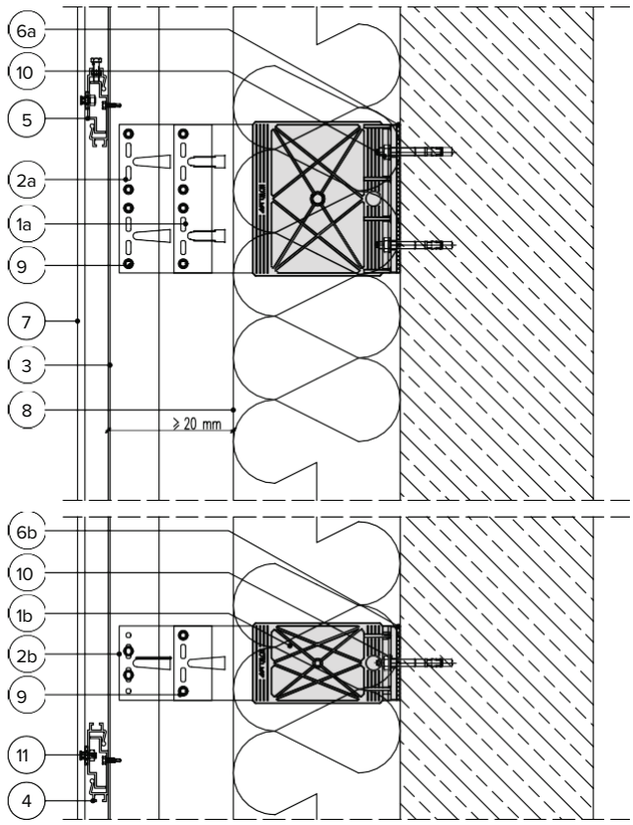



**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

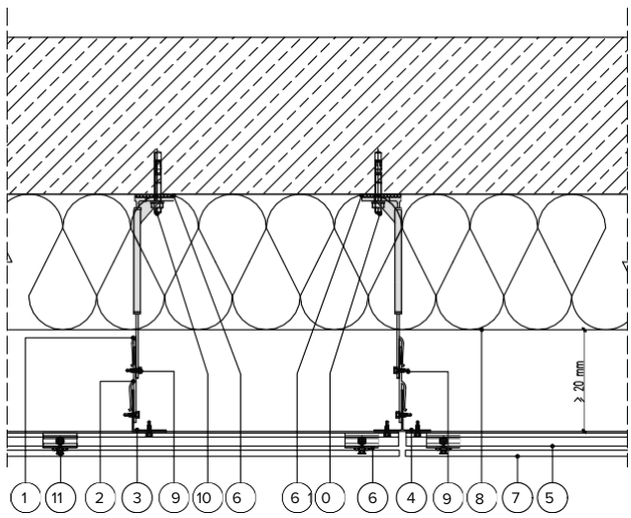
# SECTION

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | AGP aluminium profile |
| 5 | AG agraffe grip |
| 6a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 6b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | under-cut anchor |

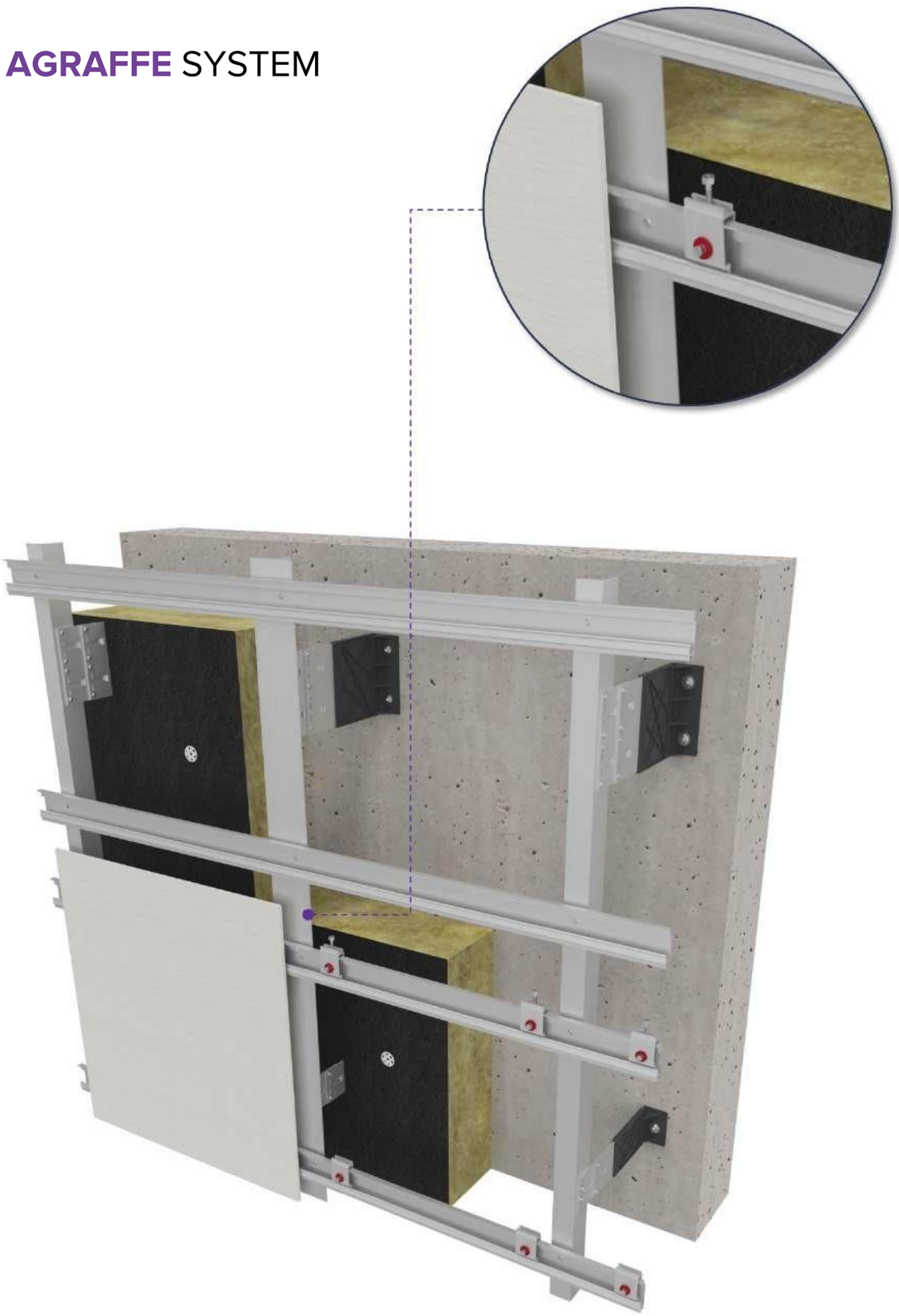



# PLAN

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | AGP aluminium profile |
| 6 | AG agraffe grip |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior |
| 11 | wall under-cut anchor |



# **AGRAFFE** SYSTEM

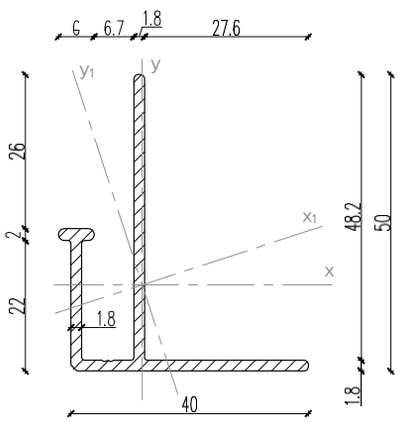


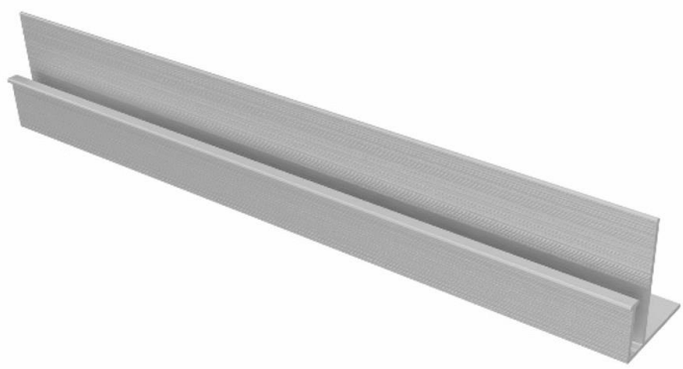
# SZ
# SYSTEM

The SZ system is dedicated primarily to panels fixed horizontally. The special profiles enable “tongue-and-groove” installation. The ASP S-shaped aluminium profile (tongue) is attached to the bottom of the cassette while the AZP Z-shaped profile (groove) is attached to its top part. When the cassettes interlock, each AZP profile is additionally attached to vertical profiles with screws. The ASTP additional profile is used at the bottom of the facade to install the first row of panels. Stainless steel AC clips secure the connection between the SZ profiles.

Residential building, Grodzieńska Street, Warsaw

## ARTRYS SZ-SYSTEM PROFILE – **ASTP**



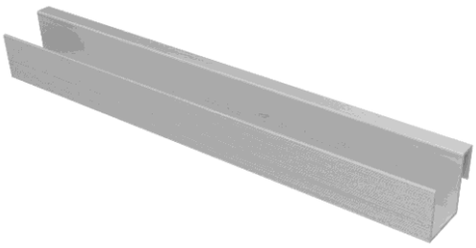



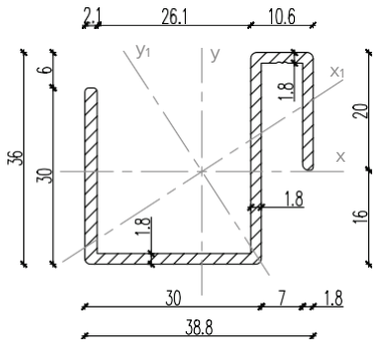
**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS SZ-System Profile – ASTP | 4.33 | 4.59 | 1.99 | 1.73 | 1.22 | 1.35 | 0.71 | 0.77 | 2.06 | 0.56 |

# ARTRYS SZ-SYSTEM PROFILE – **ASP**



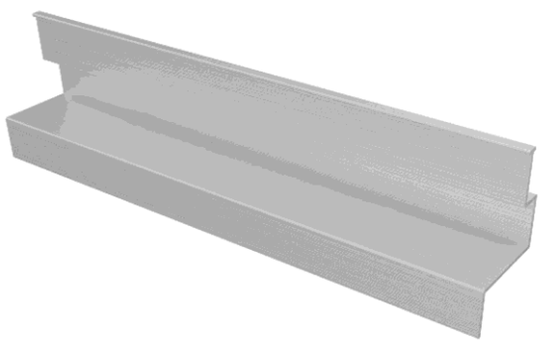


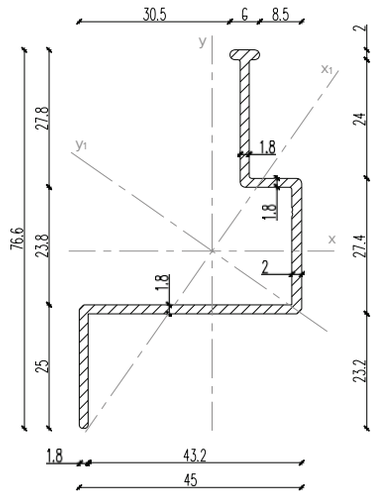

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS SZ-System Profile – ASP | 3.18 | 2.17 | 4.53 | 5.53 | 1.57 | 0.97 | 2.23 | 2.09 | 2.22 | 0.60 |

# ARTRYS SZ-SYSTEM PROFILE – **AZP**



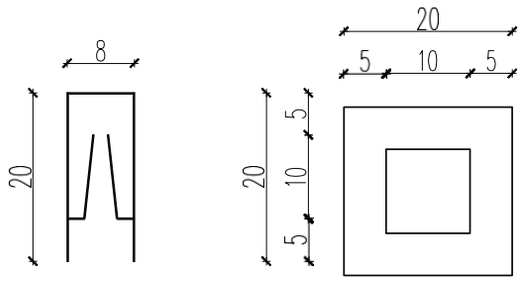



**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS SZ-System Profile – AZP | 9.45 | 3.06 | 6.28 | 12.67 | 2.32 | 1.41 | 2.34 | 2.85 | 2.46 | 0.67 |

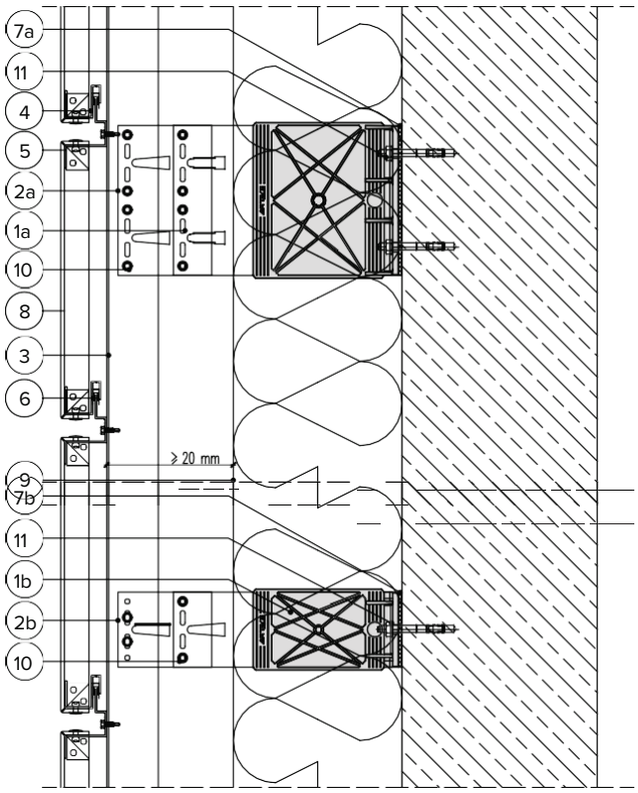
# ARTRYS CLIP – **AC**




**Material:**

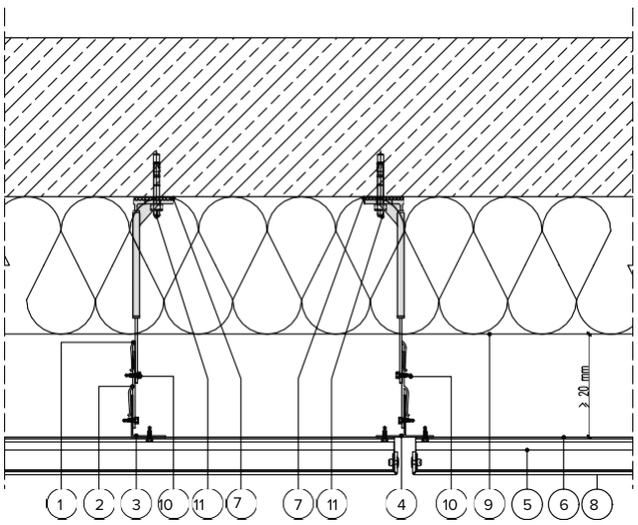
Stainless steel 1.4301/2B (304)

# SECTION



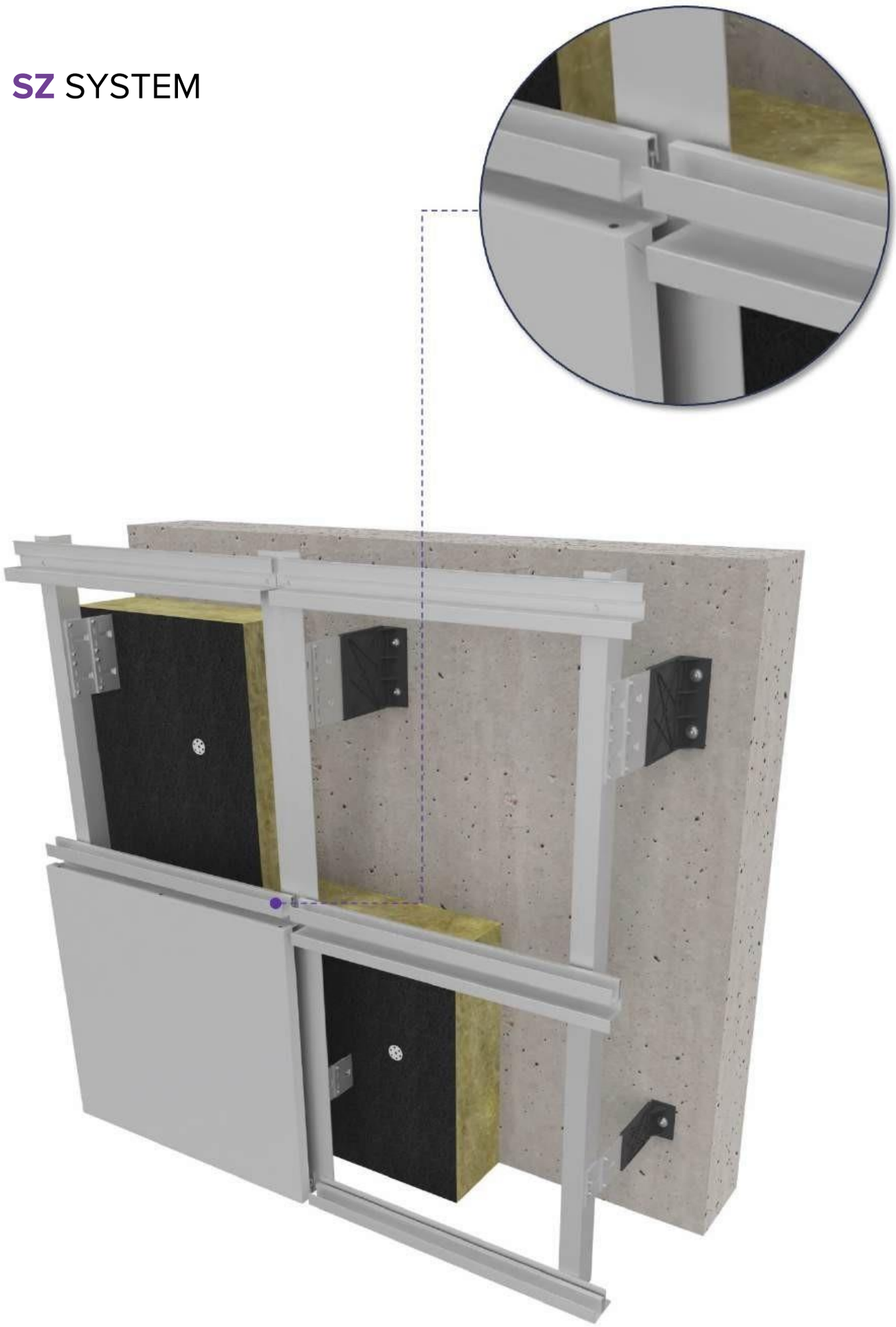

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | ASP aluminium profile |
| 5 | AZP aluminium profile |
| 6 | AC clip |
| 7a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 7b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 8 | cladding panel |
| 9 | mineral wool with tissue |
| 10 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 11 | fastener fixing the bracket to the exterior wall |

# PLAN




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | ASP aluminium profile |
| 6 | AZP aluminium profile |
| 6 | AC clip |
| 7 | PVC-U foam thermostop for the BLP PRO ECO bracket or BMP PRO ECO (optional) |
| 8 | cladding panel |
| 9 | mineral wool with tissue |
| 10 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 11 | fastener fixing the bracket to the exterior wall |

# **SZ** SYSTEM

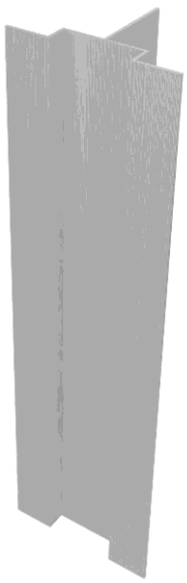


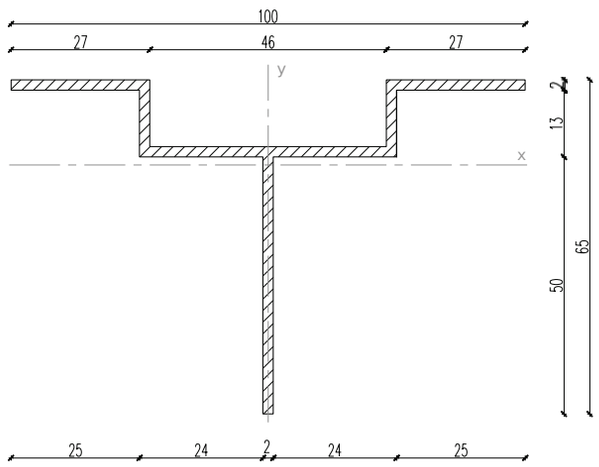
# Y HANGING SYSTEM

The Y HANGING SYSTEM can be used for both vertical and horizontal panel layouts.
AY hangers are attached to the aluminium AYP profile to hang the cassettes using dedicated cut-outs in the sides of the panels. A rubber gasket is used to stiffen the grip-panel connection.

Residential buildings, Szklarska Poręba

# ARTRYS Y PROFILE – **AYP**



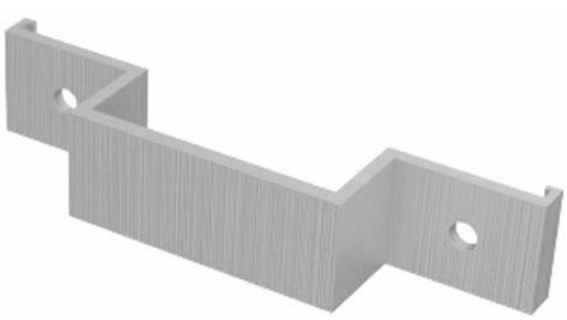


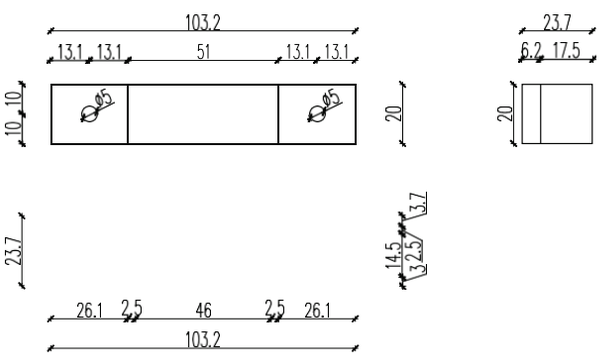

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jy [cm⁴] | Wx [cm³] | Wy [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS Y Profile – AYP | 10.67 | 19.67 | 2.20 | 3.93 | 3.52 | 0.96 |

# ARTRYS HOLDER – **AY**

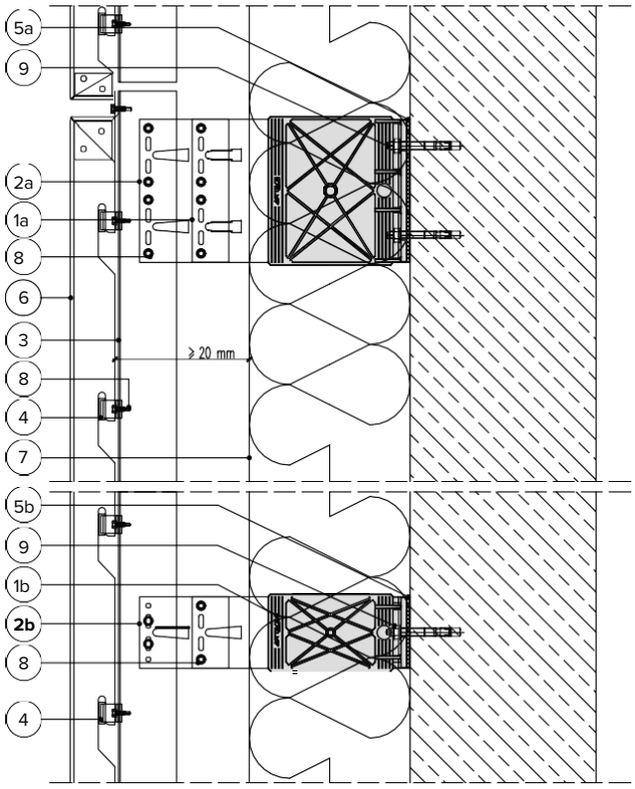





**Material:**

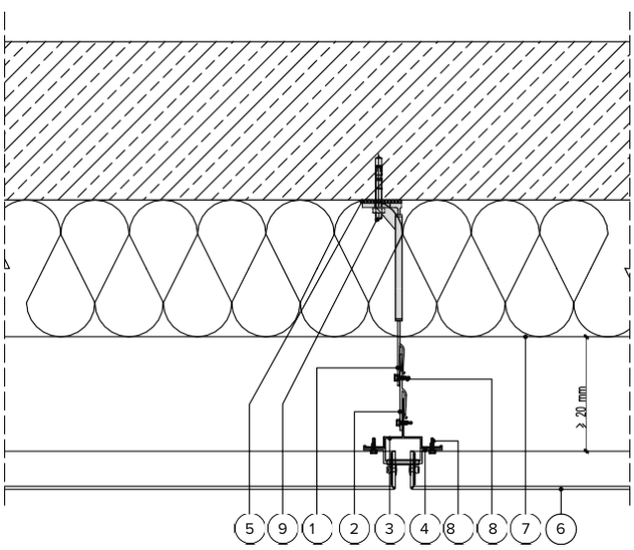
Aluminium EN AW 6060/6063/6005 T6/T66

# SECTION



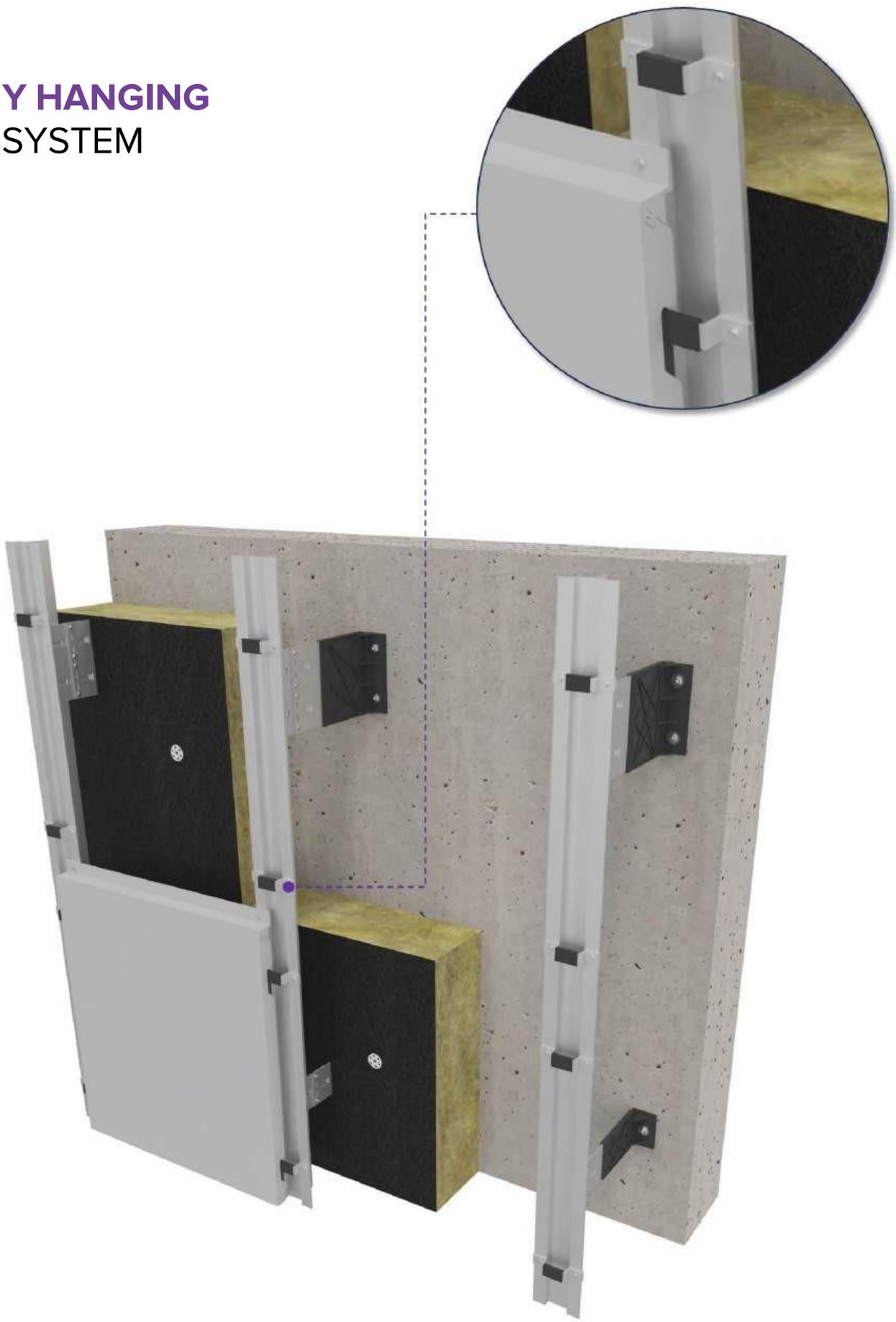

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | AYP aluminium profile |
| 4 | AY hanger |
| 5a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 5b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |

# PLAN




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | AYP aluminium profile |
| 4 | AY hanger |
| 5 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |

# **Y HANGING**
SYSTEM

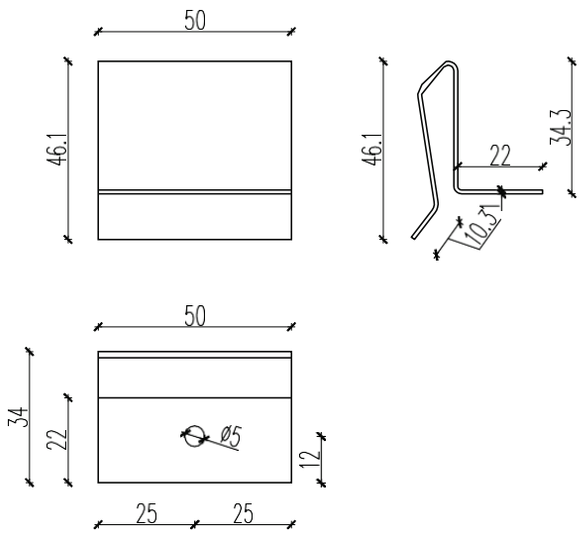


# V CLAMPING **SYSTEM**

The V clamping system enables fast and easy panel installation. The special stainless AV clamp is fixed to the bottom of the cassette and then clipped into the bent side of the panel underneath (which is fixed to the main structure). Particularly recommended for horizontal panel layouts.

Kindergarten, Kiełczów

## ARTRYS HOLDER – **AV**

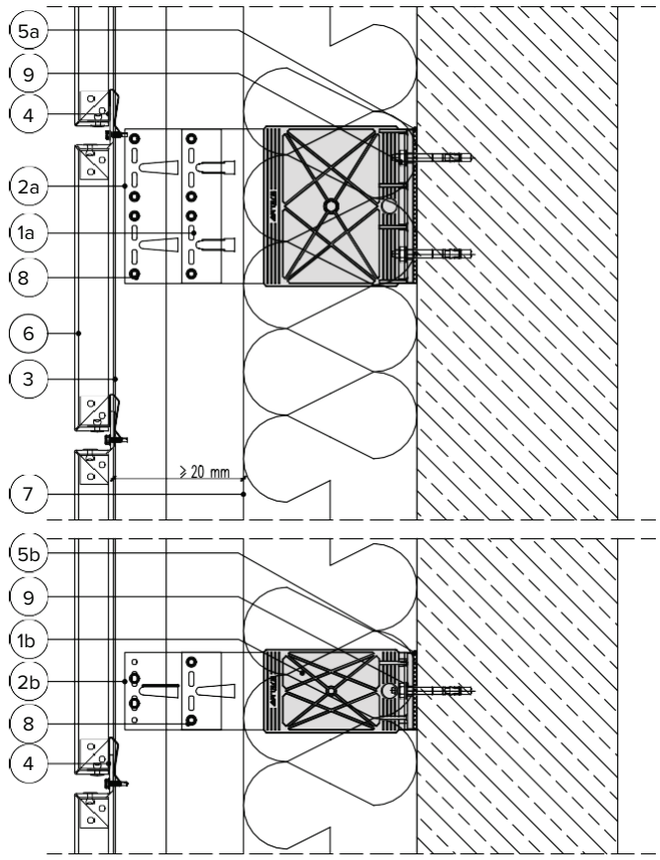



**Material:**

Stainless steel 1.4301/2B (304)

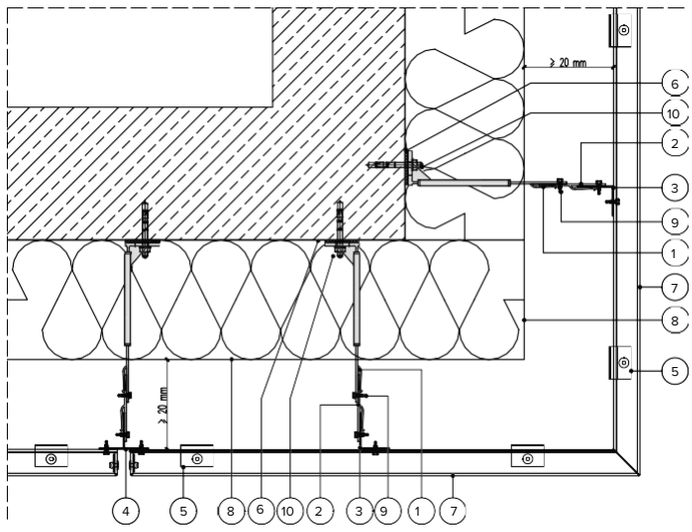
# SECTION **GENERAL**

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | AV hanger |
| 5a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 5b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |

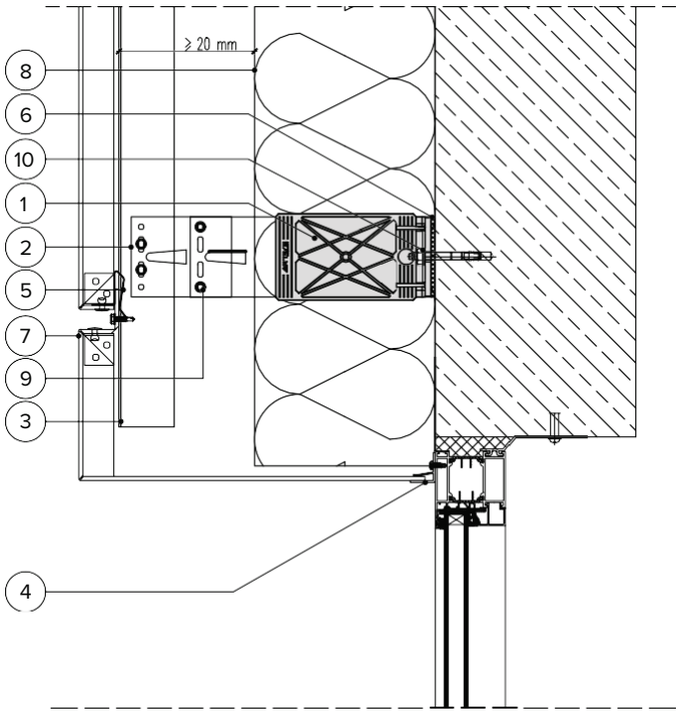



# PLAN **CORNER**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | AV hanger |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |

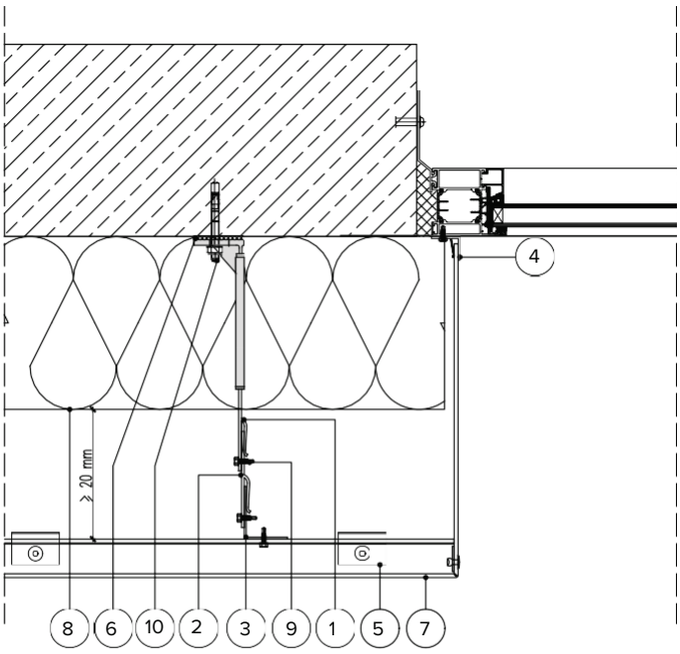


# SECTION – **WINDOW HEAD**



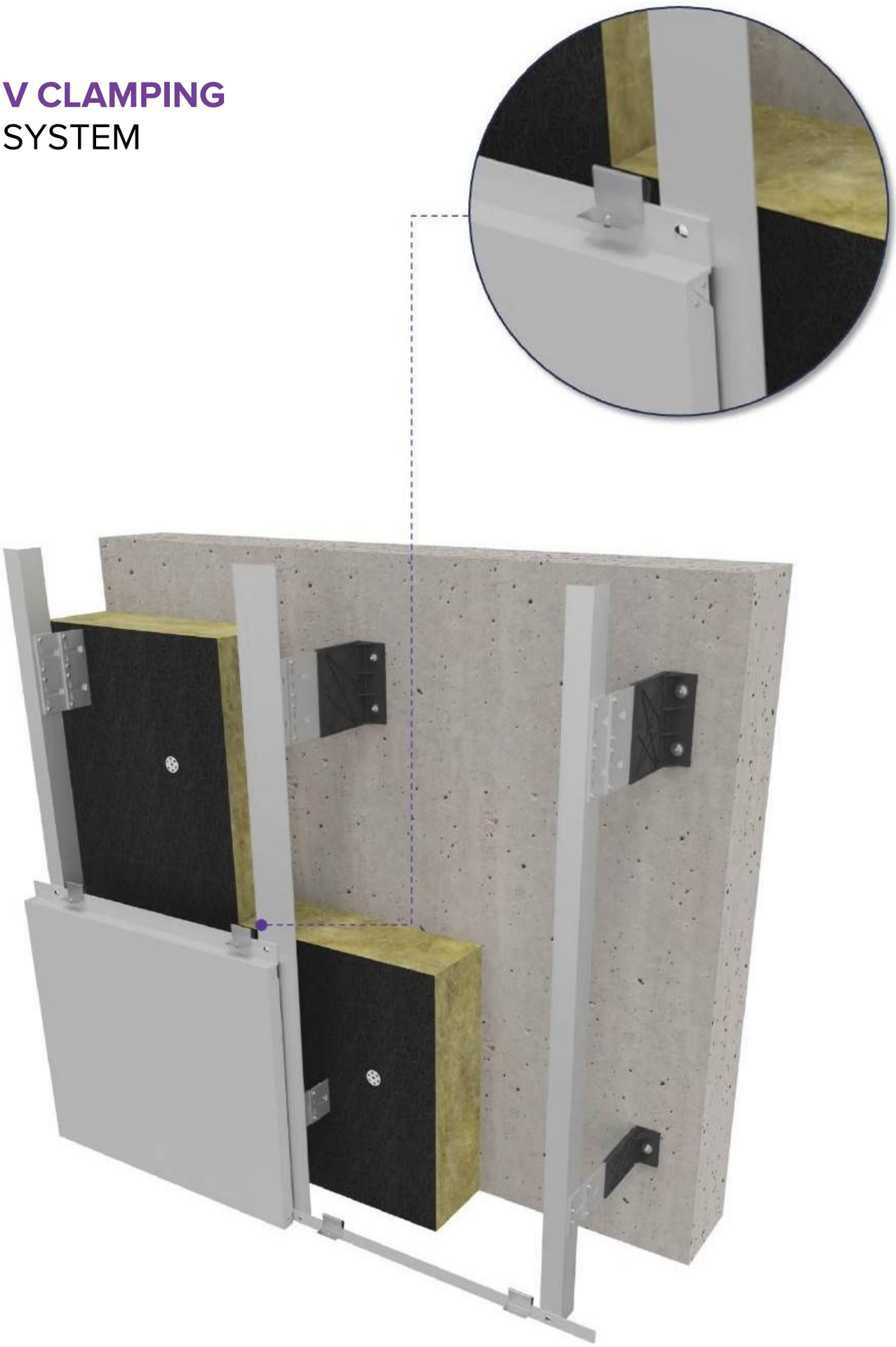

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | AWP2 aluminium profile |
| 5 | AV hanger |
| 6 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |

# PLAN – **WINDOW JAMB**




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | AWP2 aluminium profile |
| 5 | AV hanger |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |

# **V CLAMPING**
SYSTEM

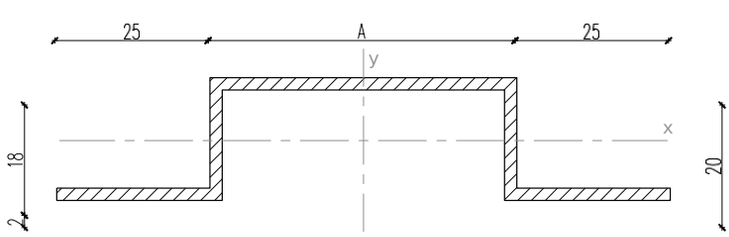


# AOP TOP HAT **PROFILE**

TOP HAT profiles are used for the shortest outreaches.
AOP profiles are made entirely of aluminium and fixed directly to the wall. Due to the limited adjustment capabilities, TOP HAT profiles are used in places that do not require insulation.

Estate of single-family houses, Zadumana Street, Warsaw

## ARTRYS TOP HAT PROFILE – **AOP**



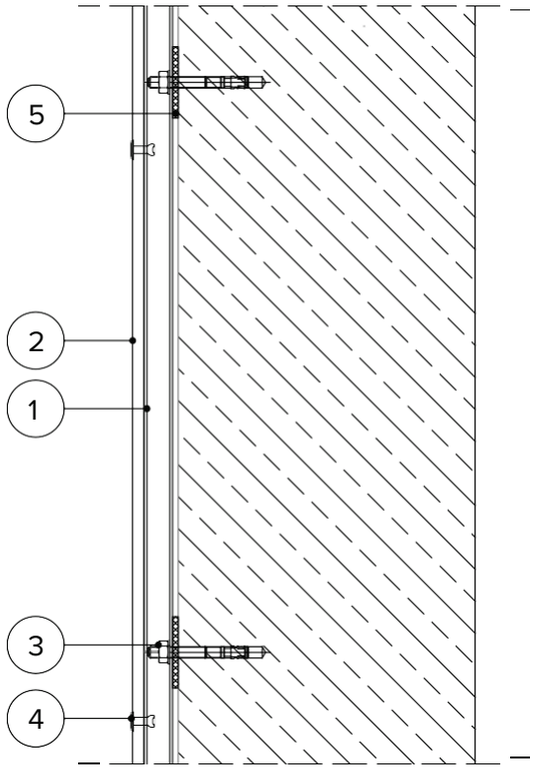

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jy [cm⁴] | Wx [cm³] | Wy [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS Top Hat Profile – AOP 50 | 1.83 | 20.83 | 1.78 | 4.16 | 2.72 | 0.74 |
| ARTRYS Top Hat Profile – AOP 100 | 2.46 | 73.54 | 2.01 | 9.81 | 3.72 | 1.01 |

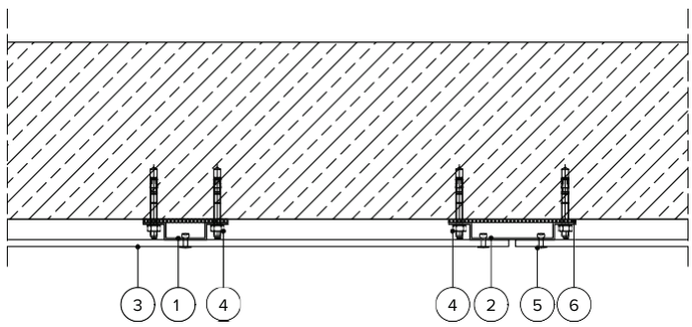
# SECTION

| | |
|---|---|
| 1 | AOP 50 / AOP 100 aluminium profile |
| 2 | cladding panel |
| 3 | fastener fixing the bracket to the exterior |
| 4 | wall rivet fixing the panel to the profile |
| 5 | spacer |




# PLAN

| | |
|---|---|
| 1 | AOP 50 aluminium profile |
| 2 | AOP 100 aluminium profile |
| 3 | cladding panel |
| 4 | fastener fixing the bracket to the exterior |
| 5 | wall rivet fixing the panel to the profile |
| 6 | spacer |

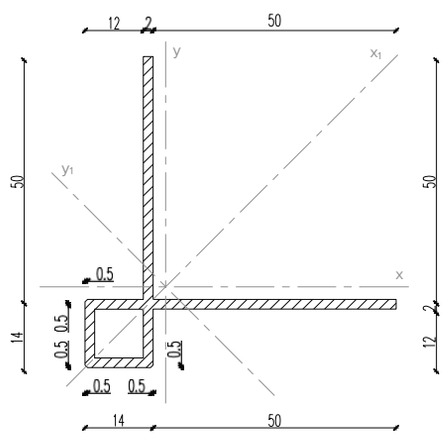


# **ACP1** CORNER PROFILE

The ACP1 CORNER PROFILE enables aesthetic finishing of the connections of two panels, covering their edges, and can be painted into any colour.


MADISON suites, Warsaw

## ARTRYS CORNER PROFILE – **ACP1**



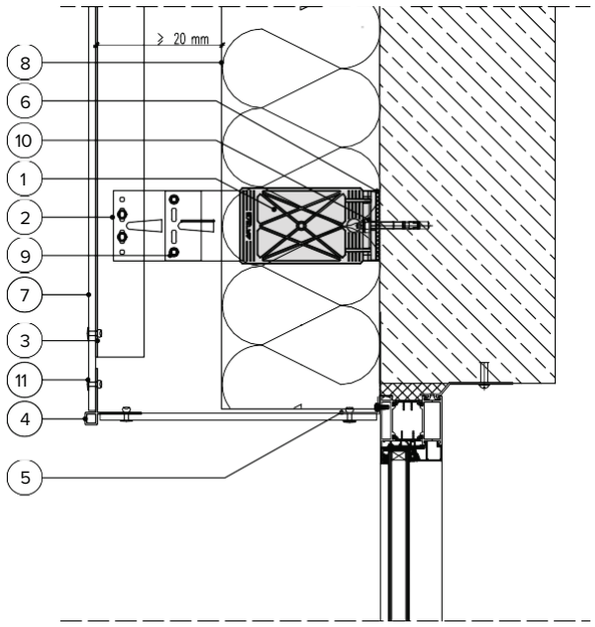

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Corner Profile – ACP1 | 8.34 | 9.08 | 8.34 | 6.99 | 1.76 | 2.46 | 1.76 | 2.21 | 2.96 | 0.81 |

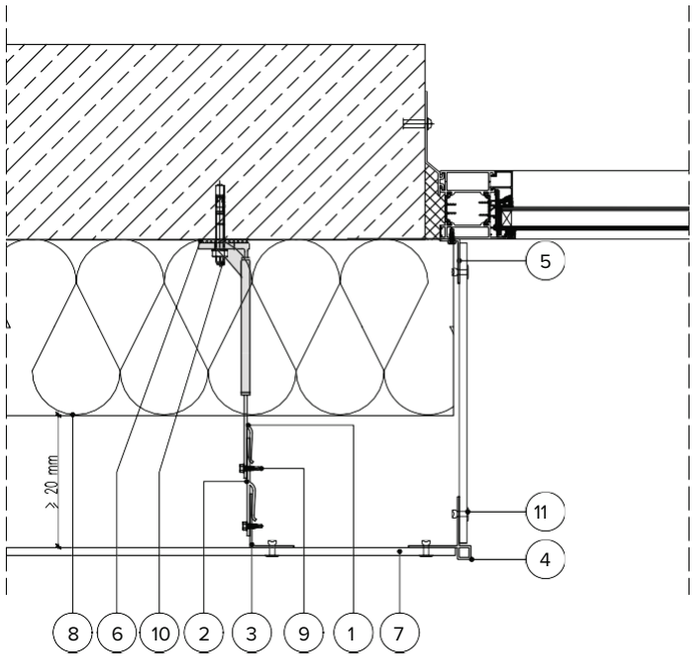
# SECTION – **WINDOW HEAD**

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | ACP1 aluminium profile |
| 5 | ALP 45/20/2 aluminium profile |
| 6 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | rivet fixing the panel to the profile |



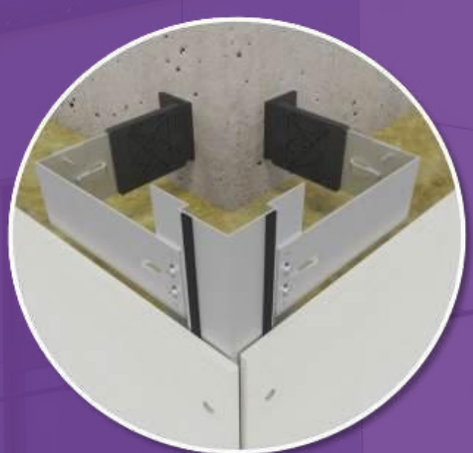

# PLAN – **WINDOW JAMB**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ACP1 aluminium profile |
| 5 | ALP 45/20/2 aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | rivet fixing the panel to the profile |



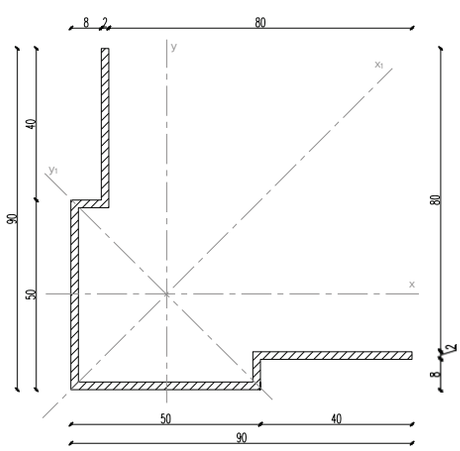
# **ACP2** CORNER PROFILE

The ACP2 CORNER PROFILE + AG210 GRIP are intended mainly for riveted systems that only require fixing at the corner of the panel. The AG210 special grip can be used to join the brackets with the corner profile and, consequently, avoid one rivet column to improve the overall visual effect.



Conference building, Sieradz

## ARTRYS CORNER PROFILE – **ACP2**

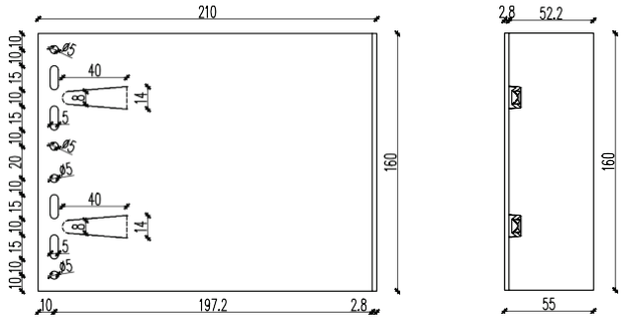


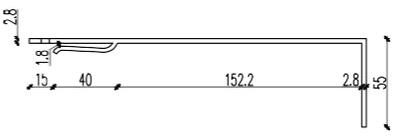

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Corner Profile – ACP2 | 28.44 | 41.65 | 28.44 | 15.23 | 4.38 | 7.18 | 4.39 | 4.35 | 3.88 | 1.0 |

# ARTRYS CORNER GRIP LARGE – **AGL210**

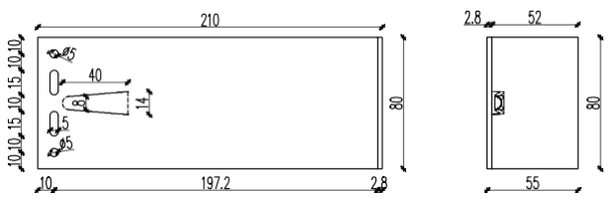


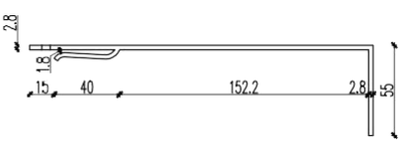




**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

# ARTRYS CORNER GRIP MEDIUM – **AGM210**



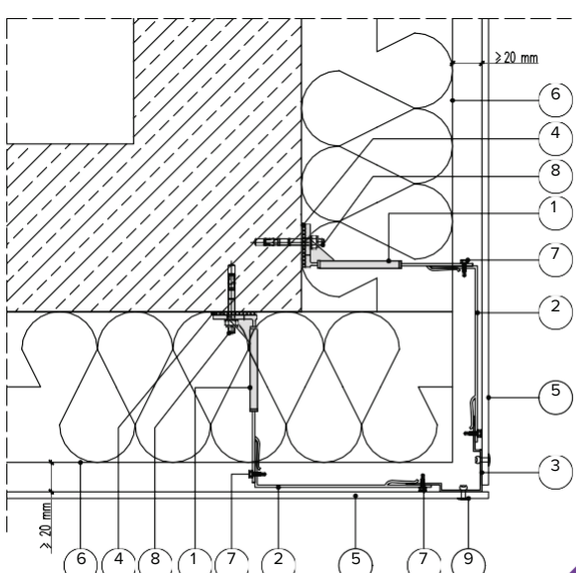




**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

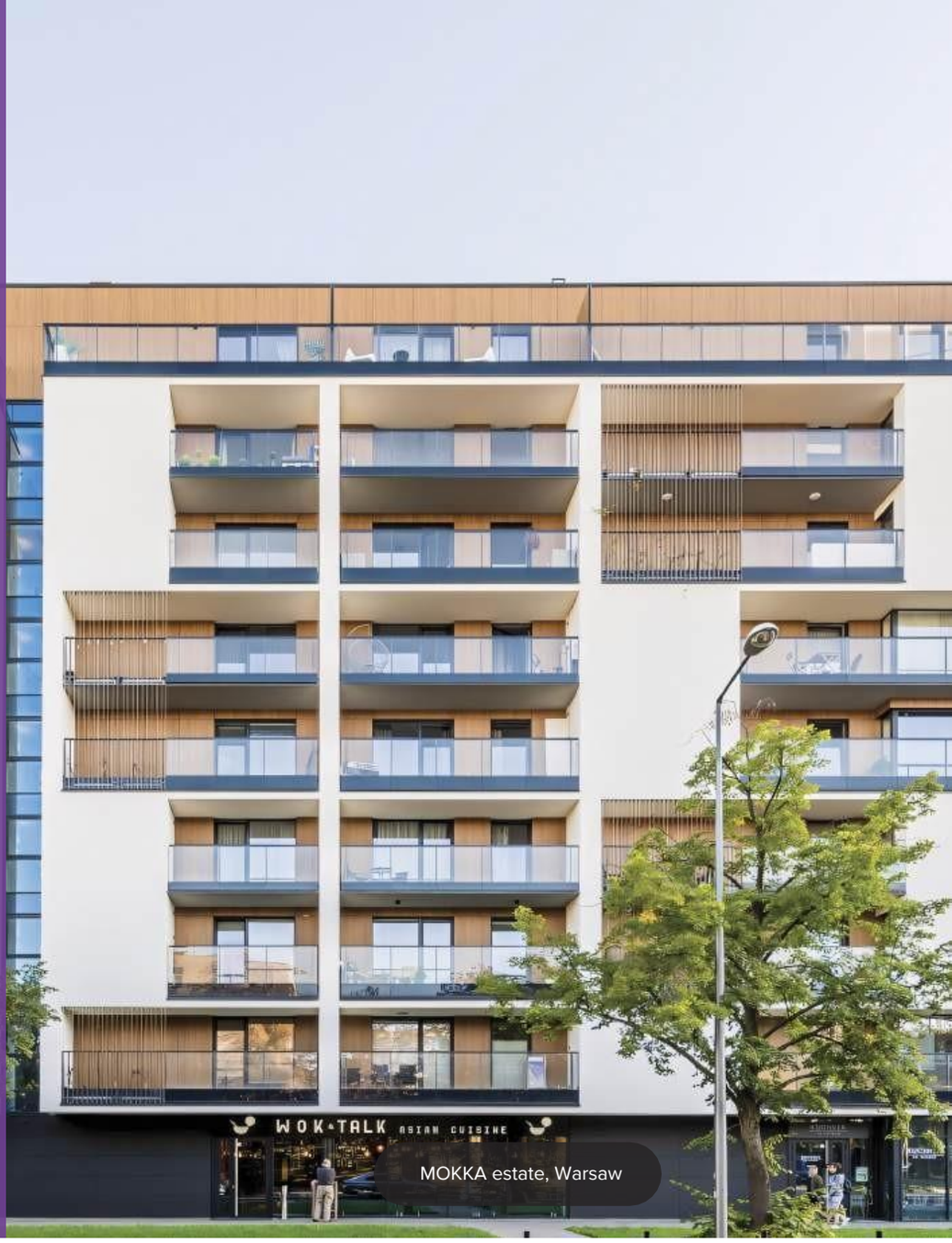
# PLAN **CORNER**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | AGL210 or AGM210 grip |
| 3 | ACP2 aluminium profile |
| 4 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 8 | fastener fixing the bracket to the exterior wall |
| 9 | rivet fixing the panel to the profile |



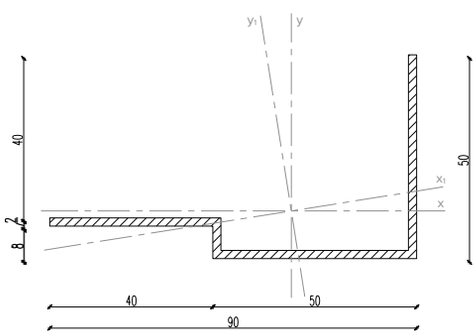
# **ACP3** CORNER PROFILE

The ACP3 CORNER PROFILE + AG GRIP are intended mainly for riveted systems that only require fixing at the corner of the panel. The AG special grip (available in three lengths) can be used to join the brackets with the corner profile and, consequently, avoid one rivet column to improve the overall visual effect.




MOKKA estate, Warsaw

## ARTRYS CORNER PROFILE – **ACP3**




**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

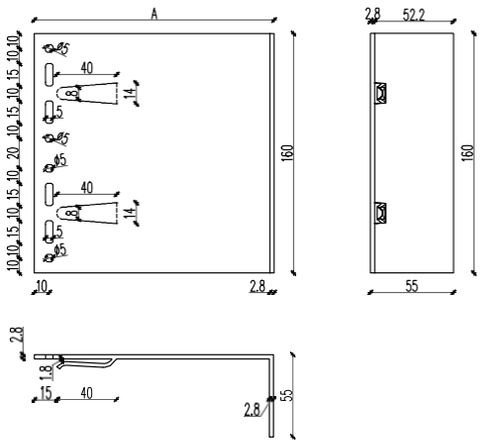
| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Corner Profile – ACP3 | 3.75 | 3.20 | 23.92 | 24.48 | 1.09 | 1.09 | 4.09 | 4.21 | 2.82 | 0.77 |

# ARTRYS CORNER GRIP LARGE – **AGL**

| Bracket type | A [mm] |
|---|---|
| ARTRYS Corner Grip Large – AGL80 | 80 |
| ARTRYS Corner Grip Large – AGL160 | 160 |
| ARTRYS Corner Grip Large – AGL210 | 210 |

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

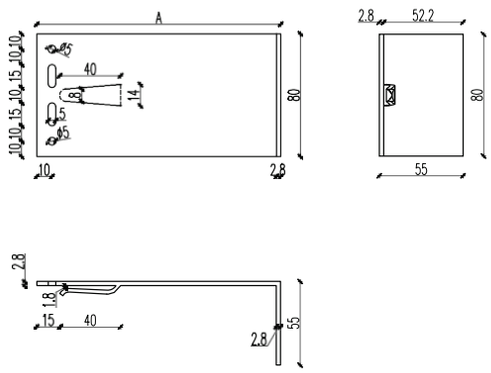



# ARTRYS CORNER GRIP MEDIUM – **AGM**

| Bracket type | A [mm] |
|---|---|
| ARTRYS Corner Grip Medium – AGM80 | 80 |
| ARTRYS Corner Grip Medium – AGM160 | 160 |
| ARTRYS Corner Grip Medium – AGM210 | 210 |

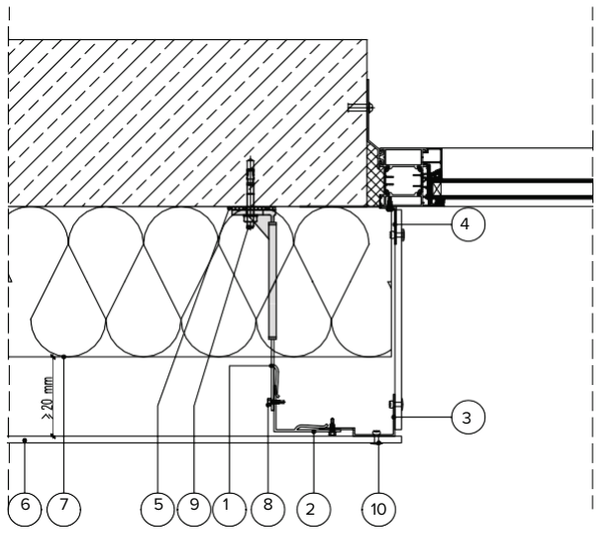
**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66




# PLAN – **WINDOW JAMB**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | grip, e.g., AGL80 or AGM80 |
| 3 | ACP3 aluminium profile |
| 4 | ALP 45/20/2 aluminium profile |
| 5 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |



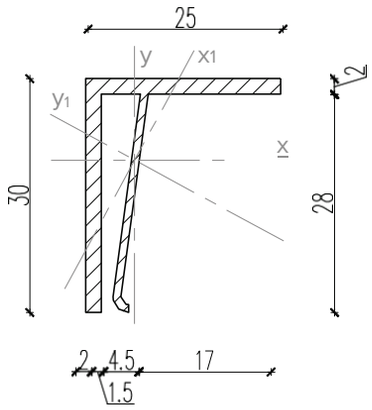
# **AWP** WINDOW PROFILES

AWP WINDOW PROFILES enable an aesthetic finish of the panels in window reveals. The special shape of the profiles enables easy adjustment within a range of up to 20 mm. They can be painted into any colour. There are three available variants depending on cladding thickness.

Residential building, Krochmalna Street, Warsaw

# ARTRYS WINDOW PROFILE – **AWP1**

**Recommended for cladding with a max. thickness of 1.5 mm.**



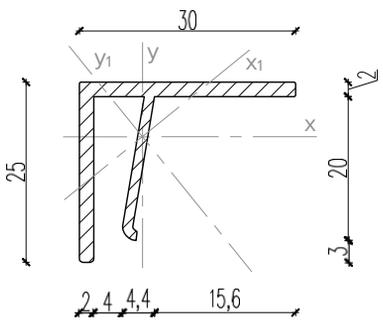

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Window Profile – AWP1 | 1.27 | 0.35 | 0.62 | 1.53 | 0.65 | 0.25 | 0.33 | 0.76 | 1.34 | 0.36 |

# ARTRYS WINDOW PROFILE – **AWP2**

**Recommended for cladding with a max. thickness of 4 mm.**



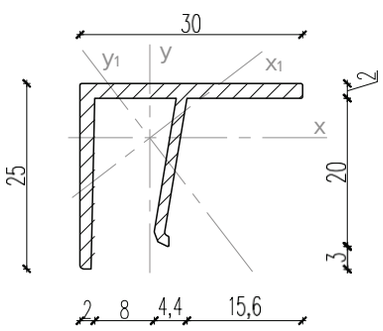

**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Window Profile – AWP2 | 0.77 | 0.38 | 0.96 | 1.36 | 0.44 | 0.34 | 0.45 | 0.64 | 1.34 | 0.36 |

# ARTRYS WINDOW PROFILE – **AWP3**

**Recommended for cladding with a max. thickness of 8 mm.**

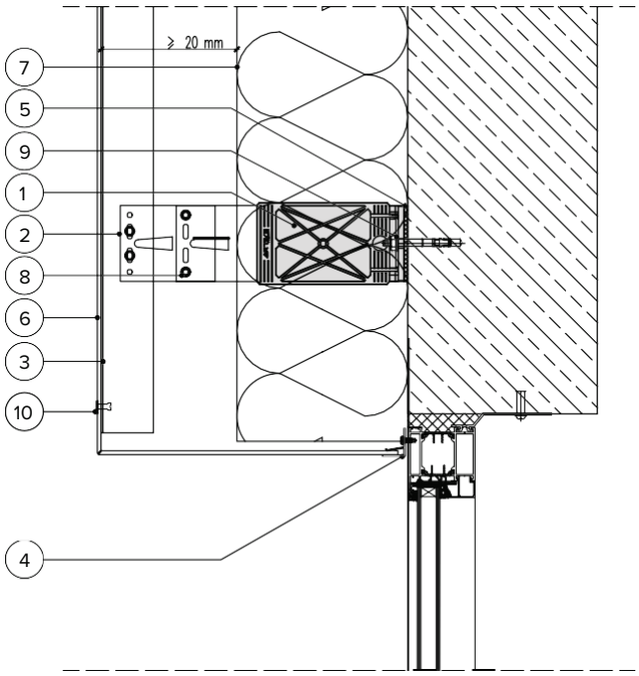



**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

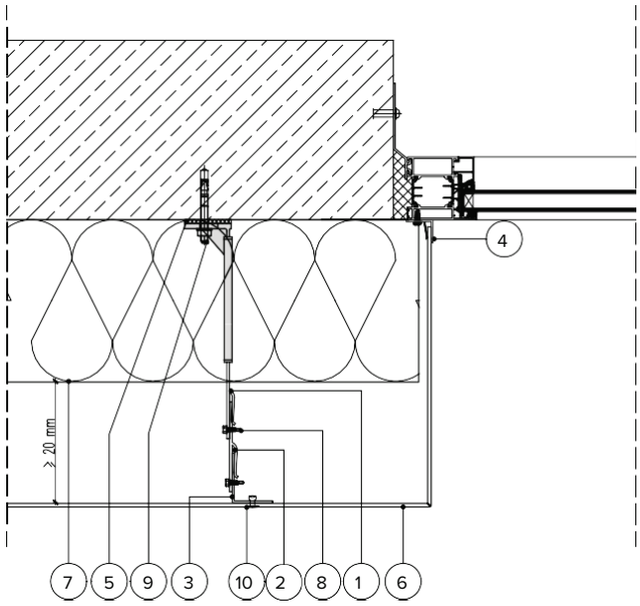
| Profile type | Jx [cm⁴] | Jx₁ [cm⁴] | Jy [cm⁴] | Jy₁ [cm⁴] | Wx [cm³] | Wx₁ [cm³] | Wy [cm³] | Wy₁ [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS Window Profile – AWP3 | 0.77 | 0.38 | 0.98 | 1.32 | 0.44 | 0.34 | 0.48 | 0.64 | 1.34 | 0.36 |

# SECTION – **WINDOW HEAD**




| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | aluminium profile, e.g., AWP2 |
| 5 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

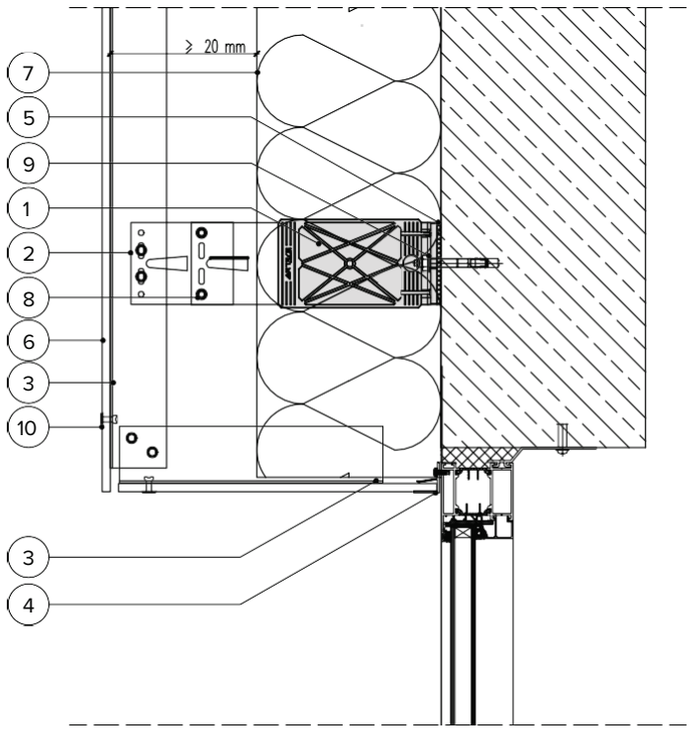
# PLAN – **WINDOW JAMB**




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | aluminium profile, e.g., AWP2 |
| 5 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

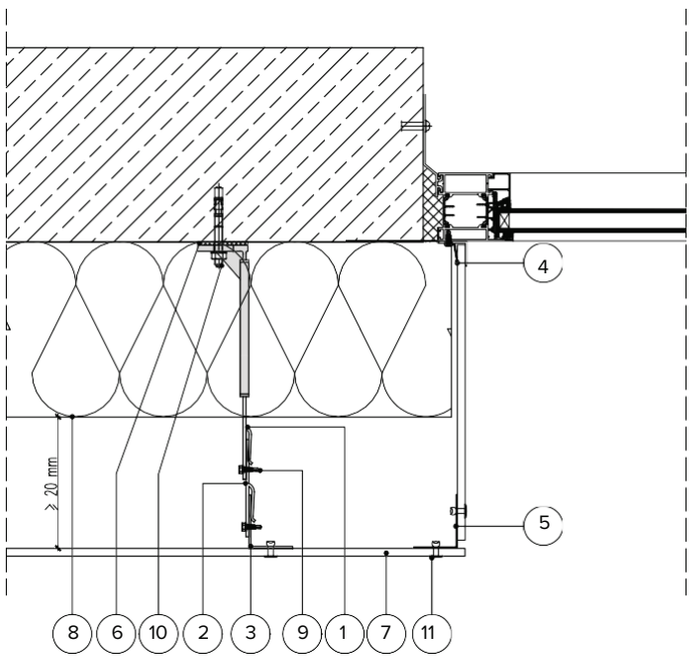
# SECTION – **WINDOW HEAD**

| | |
|---|---|
| 1 | bracket, e.g., BMP PRO ECO passive bracket |
| 2 | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | AWP3 aluminium profile |
| 5 | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |




# PLAN – **WINDOW JAMB**

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | AWP3 aluminium profile |
| 5 | ALPc aluminium profile |
| 6 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 7 | cladding panel |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |
| 11 | rivet fixing the panel to the profile |



# **ALP** SUPPORT PROFILES

ALP support profiles are used in places where the standard brackets cannot be installed directly under the standard structural profile. Examples include the connection of a corner of a ventilated facade with a plaster facade on the other side. The long arm of the ALP profile makes it possible to reach the edge of the cladding panel  even if the bracket is fixed further away.

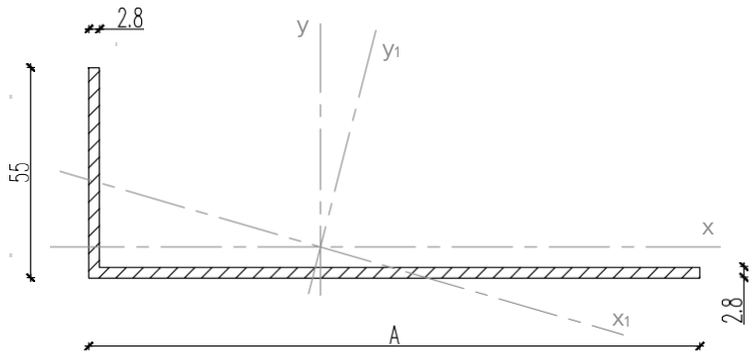
NOWA STACJA shopping centre, Pruszków

# ARTRYS SUPPORT PROFILE – **ALP**

| Profile type | A [mm] |
|---|---|
| ARTRYS L Profile – ALP 80 | 80 |
| ARTRYS L Profile – ALP 160 | 160 |
| ARTRYS L Profile – ALP 210 | 210 |

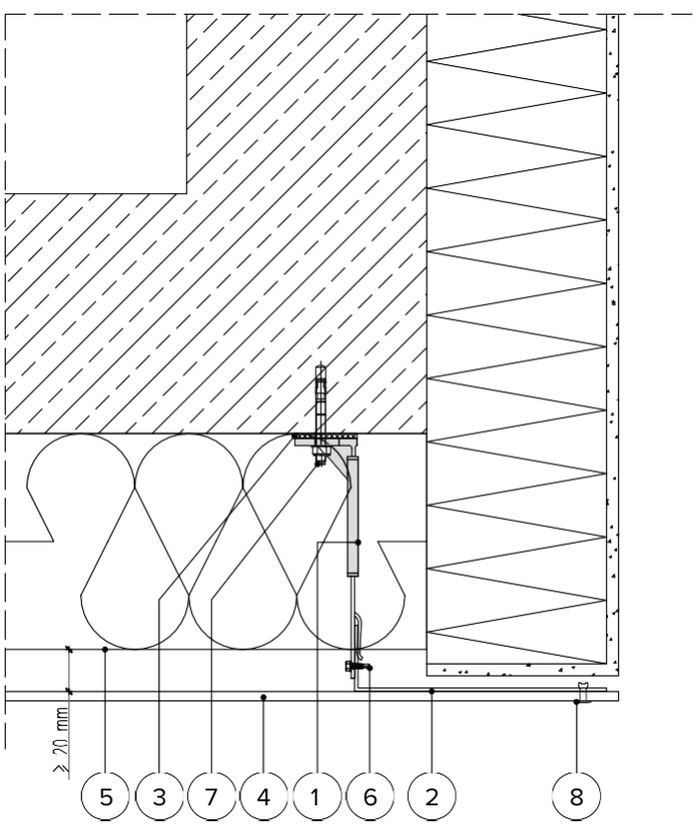
**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66




| Profile type | Jx [cm⁴] | Jx1 [cm⁴] | Jy [cm⁴] | Jy1 [cm⁴] | Wx [cm³] | Wx1 [cm³] | Wy [cm³] | Wy1 [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|---|---|---|---|
| ARTRYS L Profile – ALP 80 | 10.02 | 5.53 | 25.13 | 29.63 | 2.35 | 1.92 | 4.55 | 5.39 | 3.70 | 1.01 |
| ARTRYS L Profile – ALP 160 | 11.68 | 8.04 | 16.37 | 16.73 | 2.50 | 2.16 | 16.48 | 16.83 | 5.94 | 1.62 |
| ARTRYS L Profile – ALP 210 | 12.21 | 8.88 | 34.17 | 34.51 | 2.53 | 2.26 | 27.21 | 27.45 | 7.34 | 2.00 |

# PLAN **CORNER**



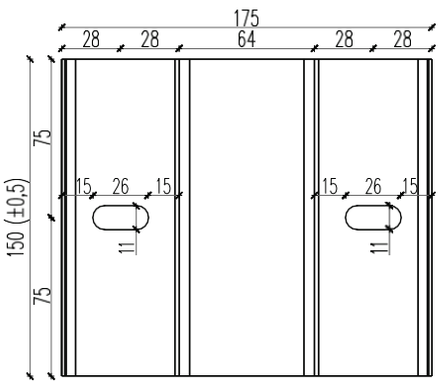

| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | aluminium profile, e.g., ALP 210 |
| 3 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 4 | cladding panel |
| 5 | mineral wool with tissue |
| 6 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 7 | fastener fixing the bracket to the exterior wall |
| 8 | rivet fixing the panel to the profile |

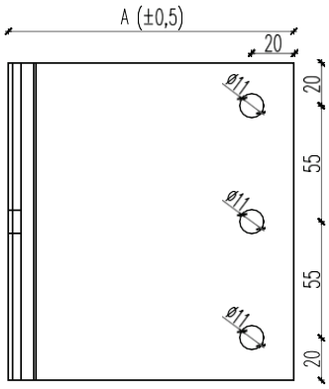
# FACADE **SYSTEM**

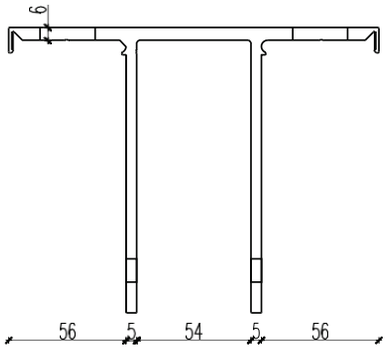
The ARTRYS FACADE SYSTEM is the perfect solution if the panels can only be fixed to the floor slabs in the building. The special facade brackets combined with facade pads can transfer large loads while reducing the number of fixing points to the structure. The façade system can also be used in mullion-transom facades, which makes it a versatile solution, easily adaptable to different types of buildings and architectural requirements.

University of Łódź, Narutowicza Street, Łódź

## FACADE BRACKET LARGE – **FBL**



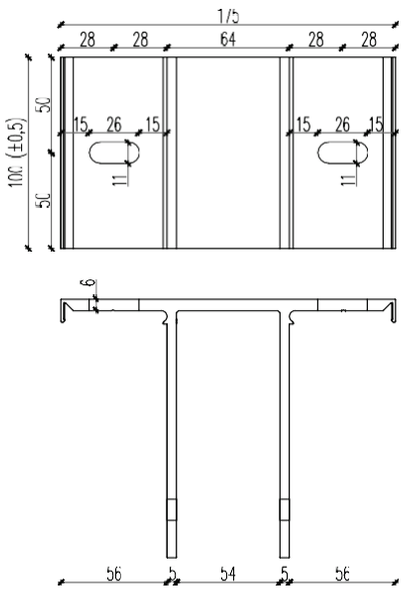



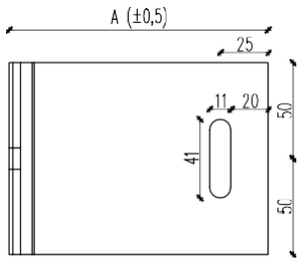

| Bracket type | A [mm] |
|---|---|
| FACADE Bracket Large – FBL 120 | 120 |
| FACADE Bracket Large – FBL 140 | 140 |
| FACADE Bracket Large – FBL 160 | 160 |
| FACADE Bracket Large – FBL 180 | 180 |
| FACADE Bracket Large – FBL 200 | 200 |
| FACADE Bracket Large – FBL 220 | 220 |
| FACADE Bracket Large – FBL 240 | 240 |

**Material:**

Aluminium EN AW 6005 T6

# FACADE BRACKET MEDIUM – **FBM**



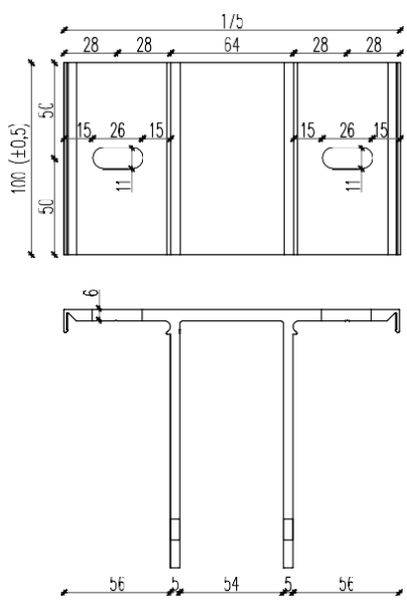



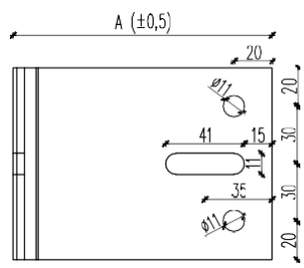

| Bracket type | A [mm] |
|---|---|
| FACADE Bracket Medium – FBM 120 | 120 |
| FACADE Bracket Medium – FBM 140 | 140 |
| FACADE Bracket Medium – FBM 160 | 160 |
| FACADE Bracket Medium – FBM 180 | 180 |
| FACADE Bracket Medium – FBM 200 | 200 |
| FACADE Bracket Medium – FBM 220 | 220 |
| FACADE Bracket Medium – FBM 240 | 240 |

**Material:**

Aluminium EN AW 6005 T6

# FACADE BRACKET MEDIUM FIX – **FBM F**



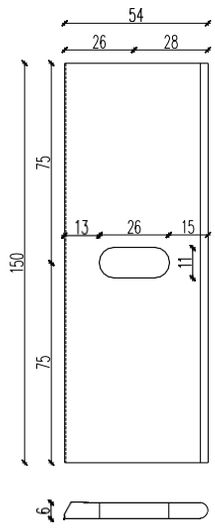



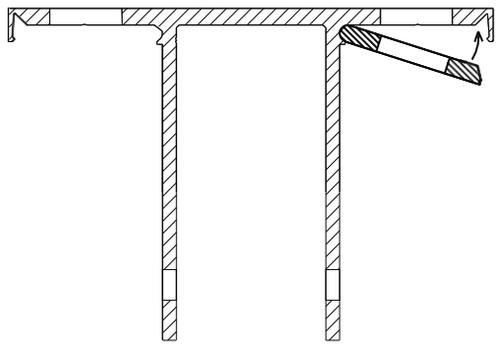

| Bracket type | A [mm] |
|---|---|
| FACADE Bracket Medium Fix – FBM F 120 | 120 |
| FACADE Bracket Medium Fix – FBM F 140 | 140 |
| FACADE Bracket Medium Fix – FBM F 160 | 160 |
| FACADE Bracket Medium Fix – FBM F 180 | 180 |
| FACADE Bracket Medium Fix – FBM F 200 | 200 |
| FACADE Bracket Medium Fix – FBM F 220 | 220 |
| FACADE Bracket Medium Fix – FBM F 240 | 240 |

**Material:**

Aluminium EN AW 6005 T6

# FACADE PAD LARGE – **FPL**

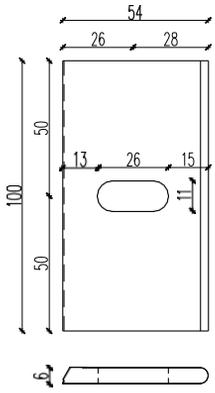


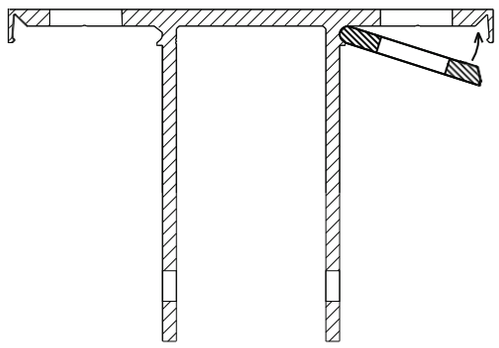



**Material:**

Aluminium EN AW 6005 T6

# FACADE PAD MEDIUM – **FPM**

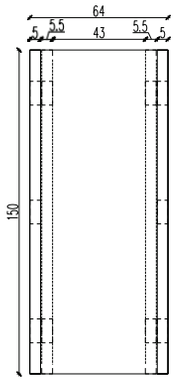


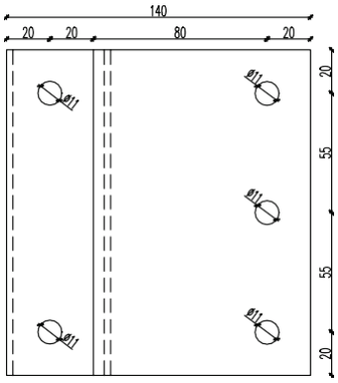



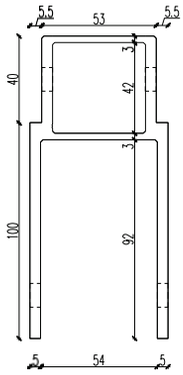
**Material:**

Aluminium EN AW 6005 T6

# FACADE EXTENSION LARGE – **FEL 140**



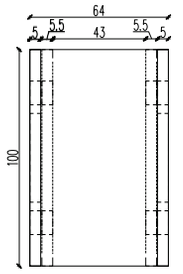



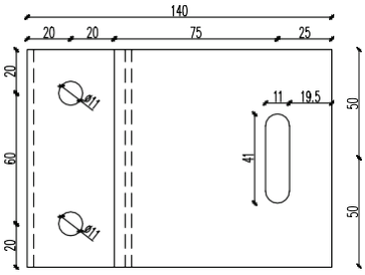



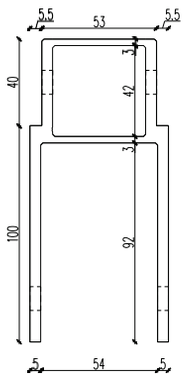

**Material:**

Aluminium EN AW 6005 T6

# FACADE EXTENSION MEDIUM – **FEM 140**



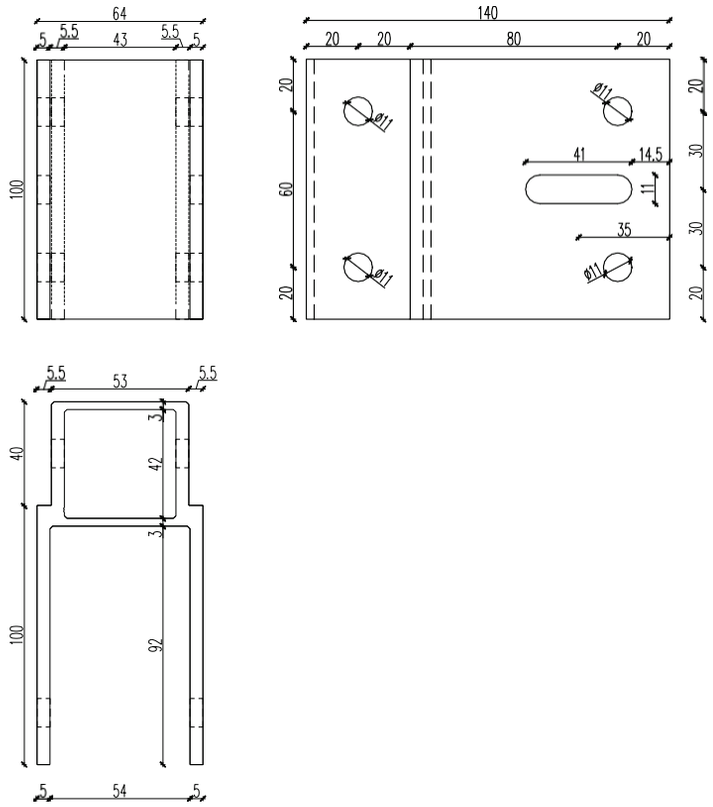




**Material:**

Aluminium EN AW 6005 T6

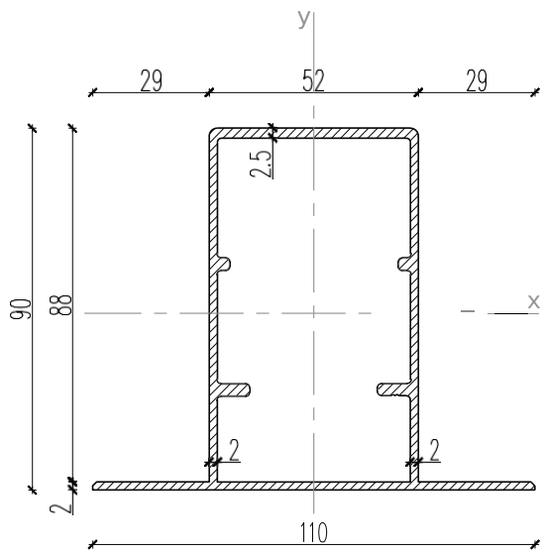
# FACADE EXTENSION MEDIUM FIX – **FEM F 140**

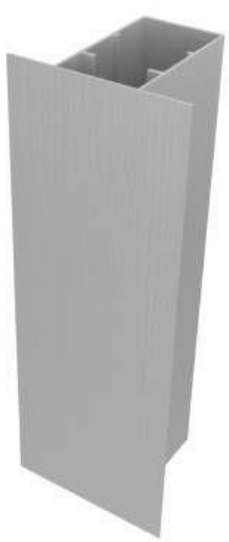



**Material:**

Aluminium EN AW 6005 T6

# ARTRYS FACADE PROFILE – **AFP1**



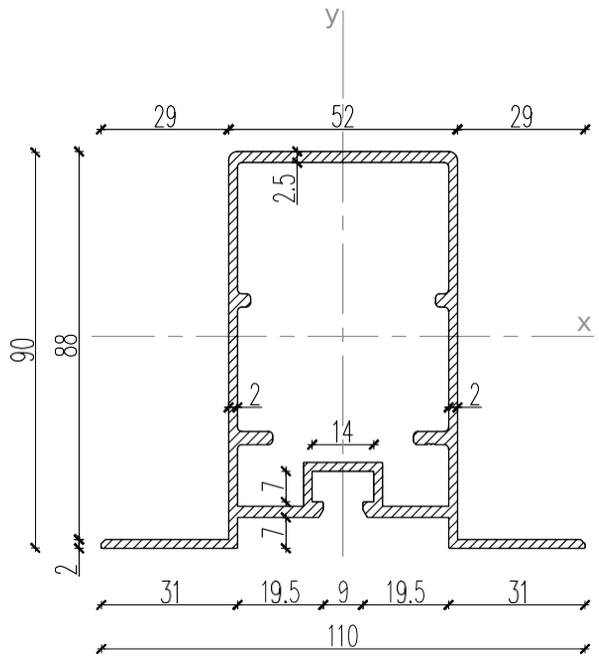



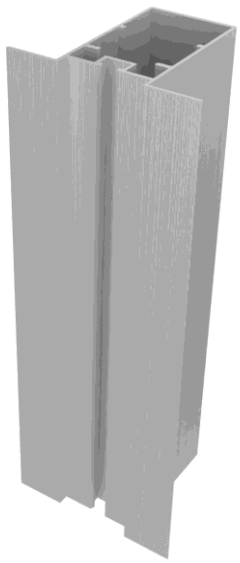
**Material:**

Aluminium EN AW 6005 T6

| Profile type | Jx [cm⁴] | Jy [cm⁴] | Wx [cm³] | Wy [cm³] | A [cm²] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS Facade Profile – AFP1 | 86.90 | 48.99 | 16.90 | 8.91 | 7.55 | 2.05 |

# ARTRYS FACADE PROFILE – **AFP2**



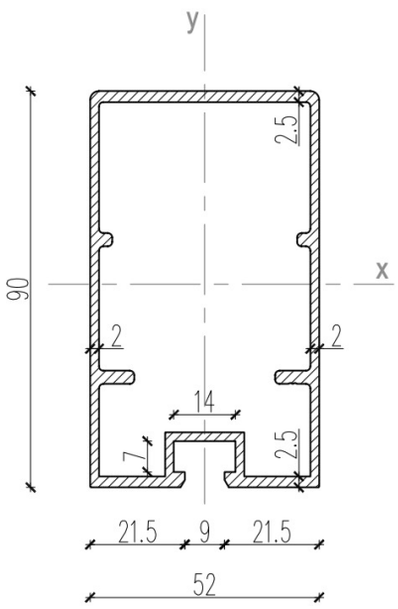



**Material:**

Aluminium EN AW 6005 T6

| Profile type | Jx [cm4] | Jy [cm4] | Wx [cm3] | Wy [cm3] | A [cm2] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS Facade Profile – AFP2 | 85.93 | 49.75 | 16.34 | 9.05 | 8.28 | 2.25 |

# ARTRYS FACADE PROFILE – **AFP3**

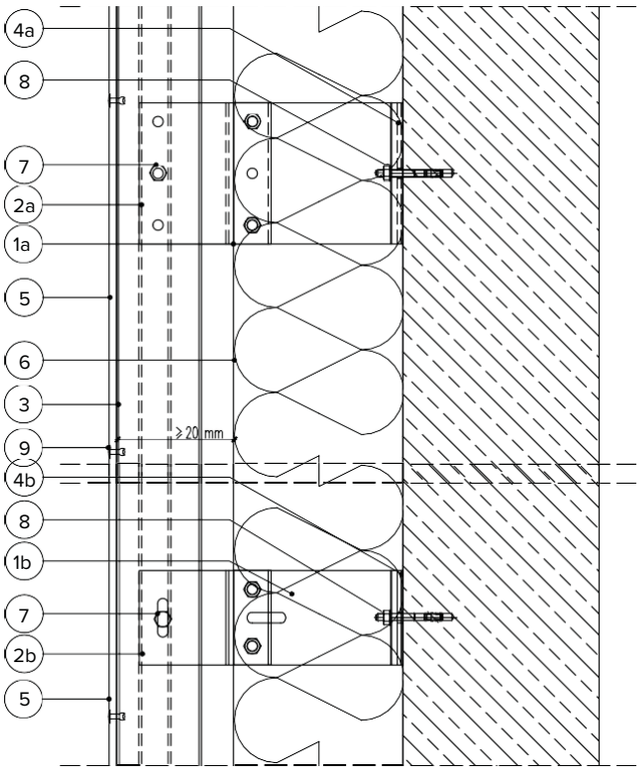



**Material:**

Aluminium EN AW 6005 T6

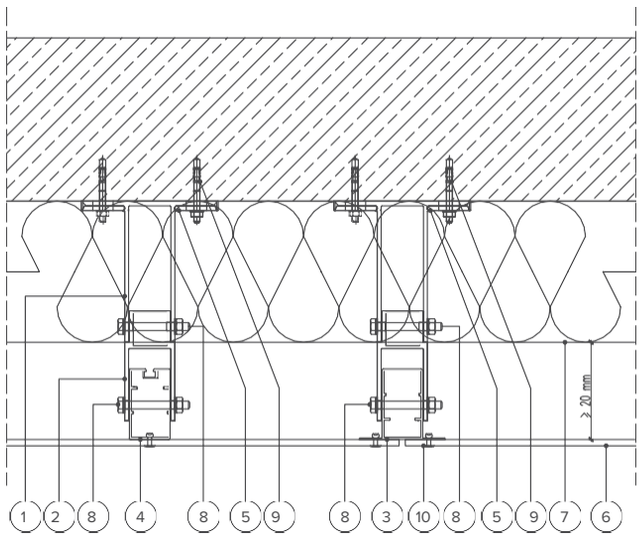
| Profile type | Jx [cm4] | Jy [cm4] | Wx [cm3] | Wy [cm3] | A [cm2] | Weight [kg/m] |
|---|---|---|---|---|---|---|
| ARTRYS Facade Profile – AFP3 | 76.35 | 30.22 | 15.77 | 11.62 | 7.13 | 1.94 |

# SECTION



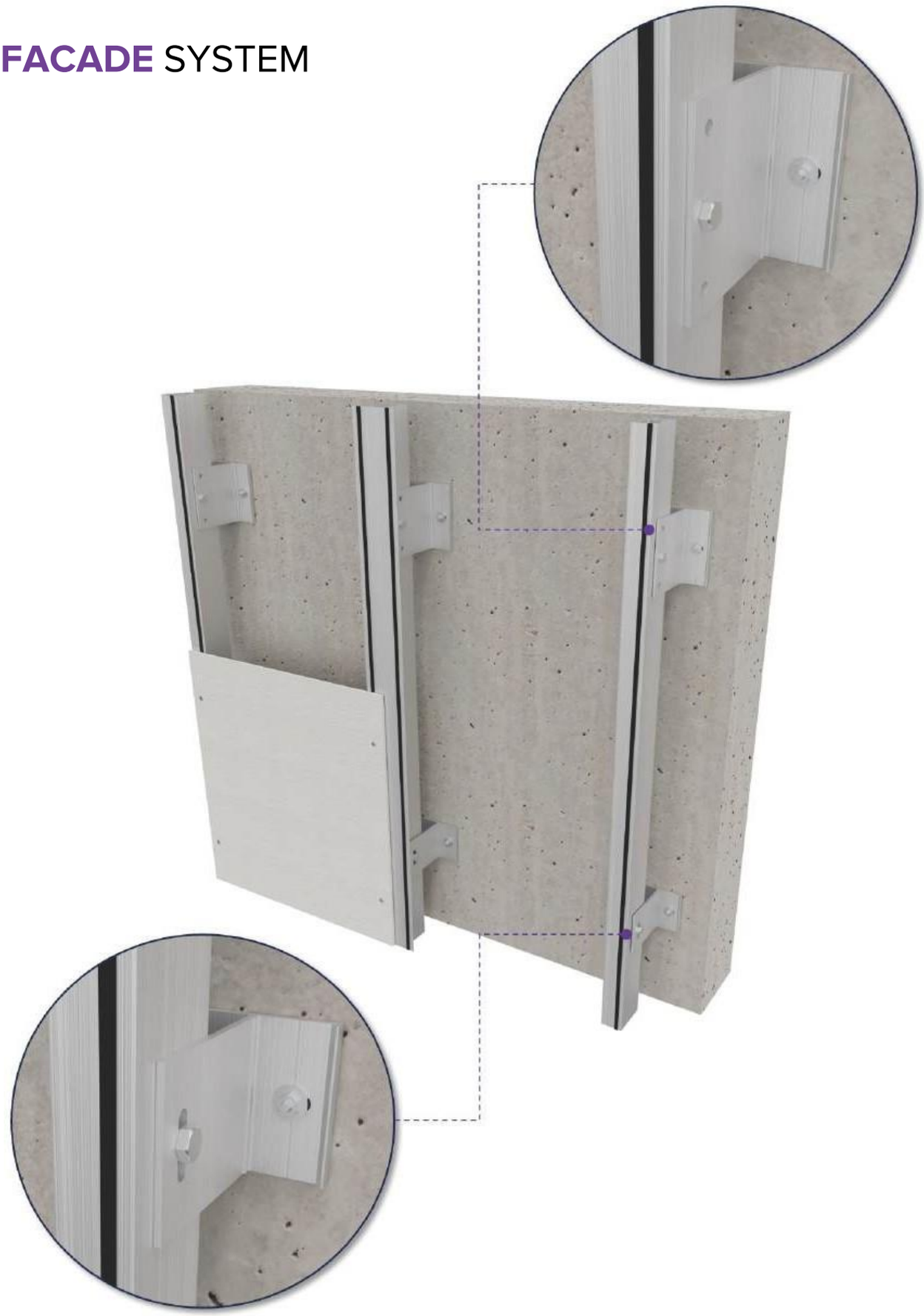

| | |
|---|---|
| 1a | FBL facade bracket |
| 1b | FBM F facade bracket |
| 2a | FEL 140 extension (optional) |
| 2b | FEM 140 extension (optional) |
| 3 | AFP1/AFP2/AFP3 facade profile |
| 4a | FPL facade pad (optional) |
| 4b | FPM facade pad (optional) |
| 5 | cladding panel |
| 6 | mineral wool with tissue |
| 7 | M10 corrosion-resistant steel bolt connecting the bracket to the profile / extension |
| 8 | fastener fixing the bracket to the exterior wall |
| 9 | rivet fixing the panel to the profile |

# PLAN




| | |
|---|---|
| 1 | FBL / FBM / FBM F facade bracket |
| 2 | FEL 140 / FEM 140 / FEM F 140 facade extension (optional) |
| 3 | AFP1 facade profile |
| 4 | AFP3 facade profile |
| 5 | FPL / FPM pad (optional) |
| 6 | cladding panel |
| 7 | mineral wool with tissue |
| 8 | M10 corrosion-resistant steel bolt connecting the bracket to the profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |
| 10 | rivet fixing the panel to the profile |

# **FACADE** SYSTEM

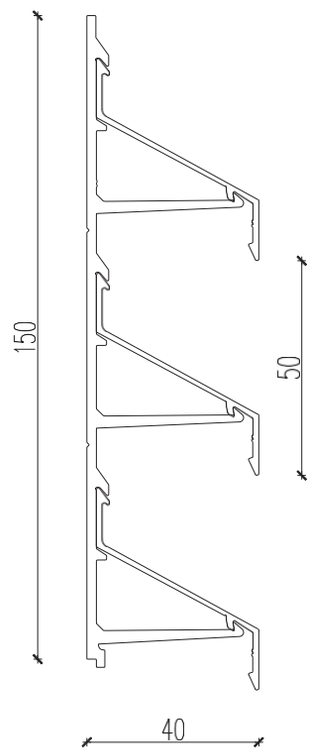


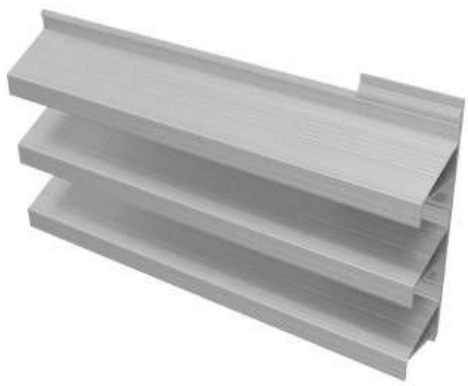
# ALUMINIUM LOUVRES

The aluminium louvre system is an aesthetic and functional solution for areas that require sunlight protection without disturbing the airflow. They are perfectly suited, for instance, for air exhaust vents. ALP50 aluminium louvres can be easily clicked into the AGP50 comb mounted on vertical profiles for fast installation. System components can be painted into any colour and adapted to the individual aesthetic requirements.

PRZY ARSENALE suites, Warsaw

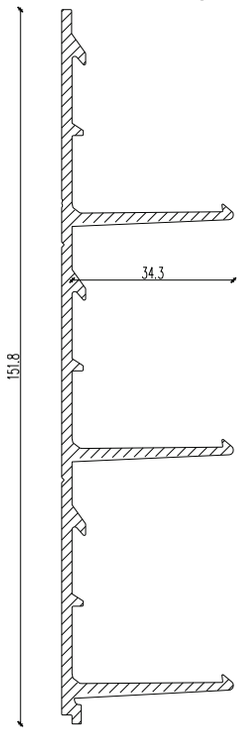
## ARTRYS LOUVRE SYSTEM – **ALS50**



| **Specifications for the ALS50 louvre system:** | |
|---|---|
| Physical cross-section | 65% |
| Optical cross-section | 72% |
| Standard width of AGP50 element | 30 mm |
| Width of AGP50 element on the joint | 60 mm |
| Maximum span between louvre supports | 1.2 m |
| Maximum length of the ALP50 profile | 6.0 m |

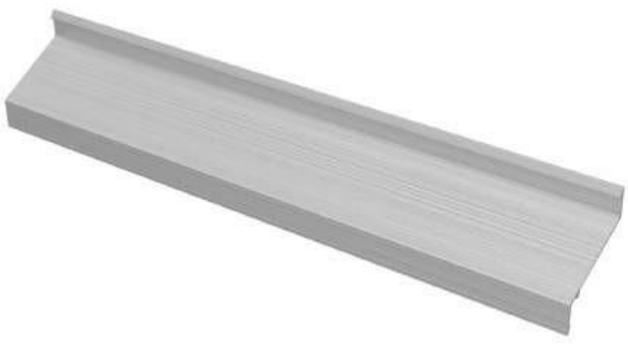
# ARTRYS COMB PROFILE – **AGP50**

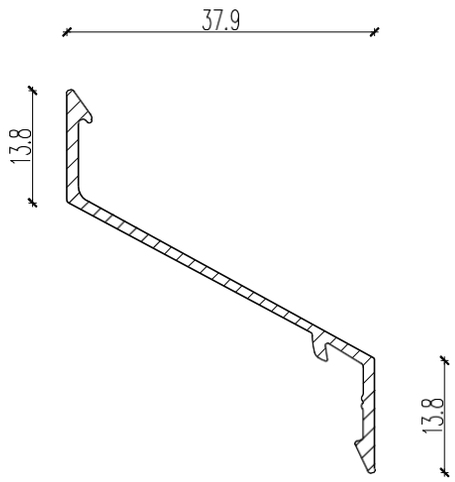



**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

# ARTRYS LAMELLA PROFILE – **ALP50**

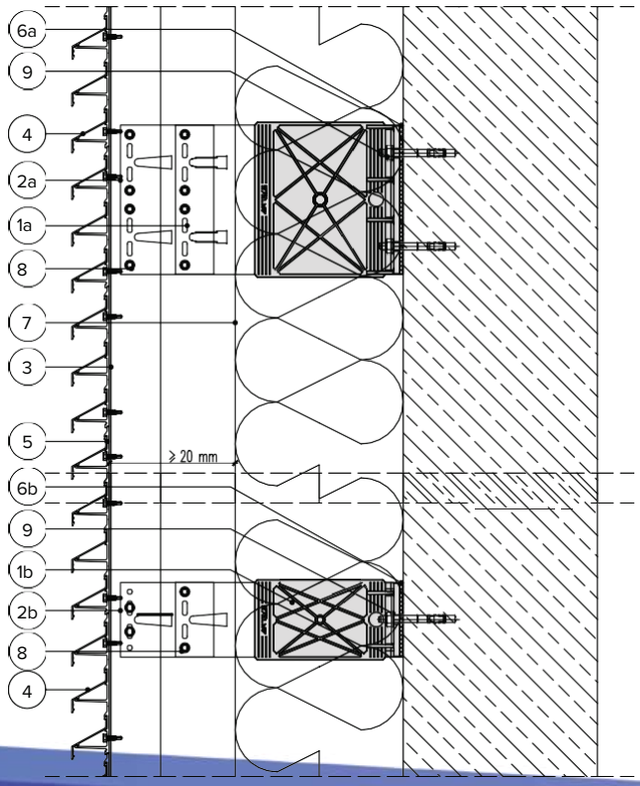





**Material:**

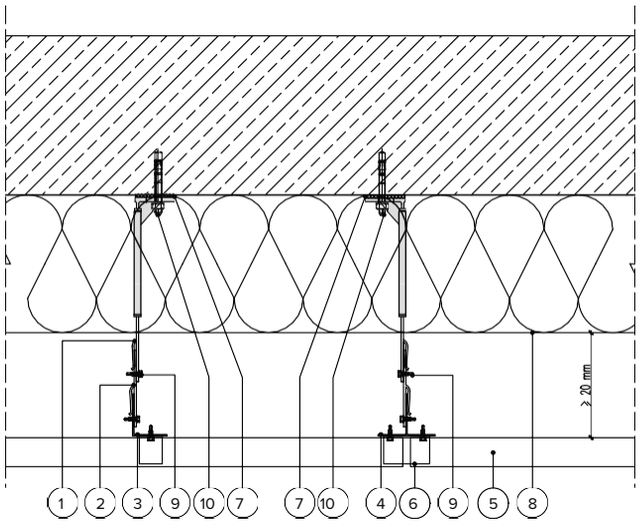
Aluminium EN AW 6060/6063/6005 T6/T66

# SECTION



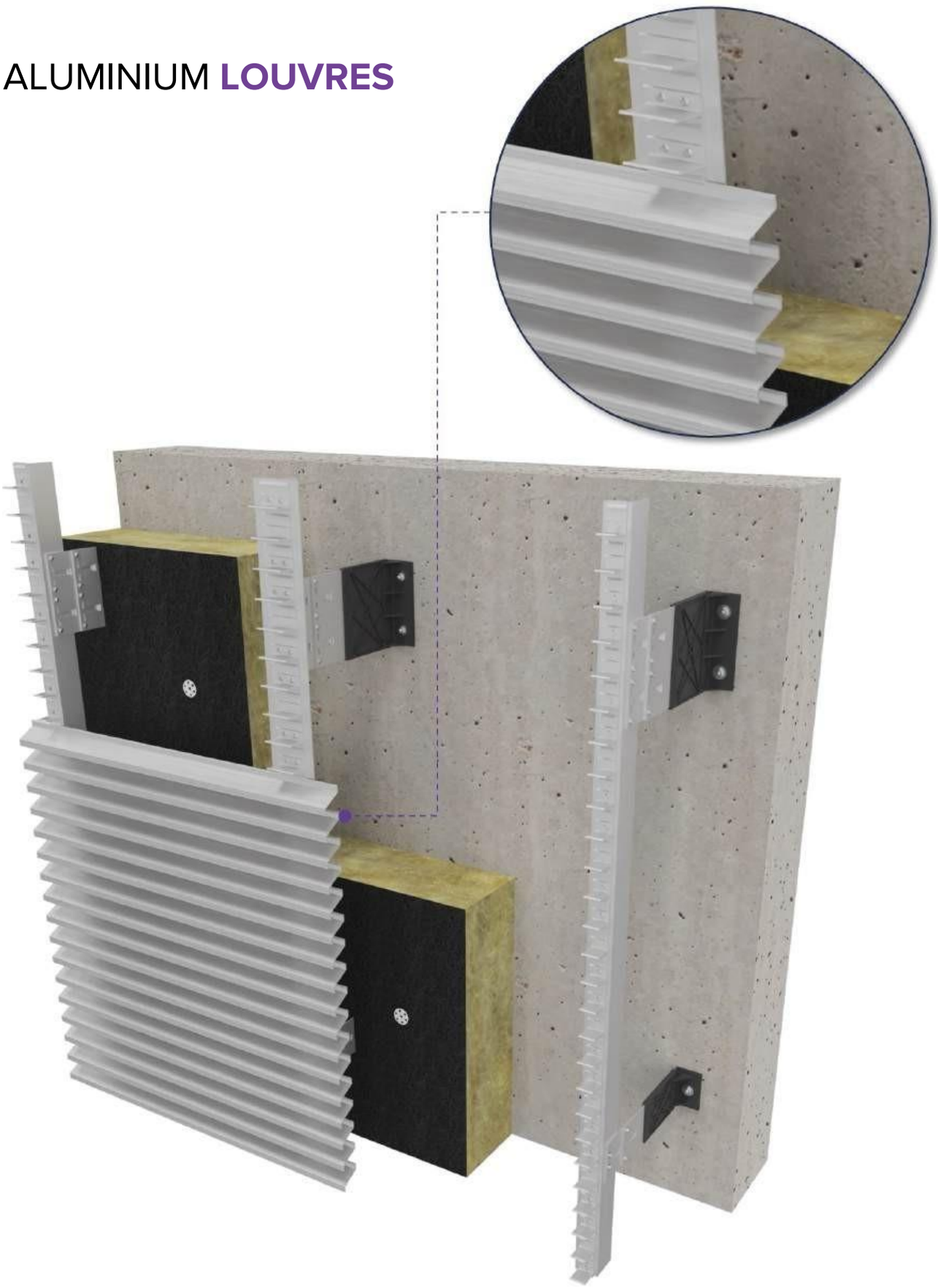

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | ALP50 lamella profile |
| 5 | AGP50 comb profile |
| 6a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 6b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |

# PLAN




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | ALP50 lamella profile |
| 6 | AGP50 comb profile |
| 7 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |

# ALUMINIUM **LOUVRES**

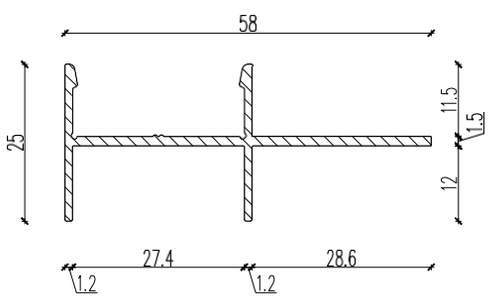


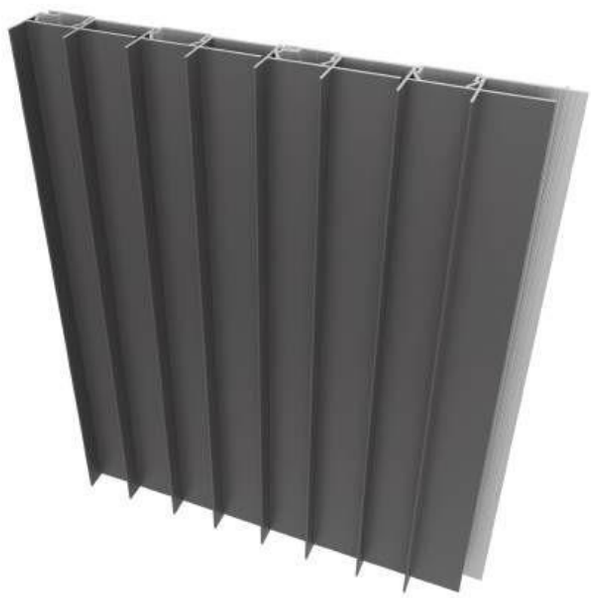
# **CLICK-IN** CLADDING

ARTRYS CLICK-IN SYSTEM is the response to the latest fit-out trends. System components are made of aluminium for enhanced functionality and durability for years to come. It is a great alternative to wooden lamellas. The design of the ABP base profile fixed to the subframe enables quick installation of the selected ADP decorative profile – it only has to be clicked in. System components can be painted into any colour and adapted to the individual aesthetic requirements. For vertical layouts of decorative profiles, the subframe has to be arranged horizontally. For horizontal layouts of decorative profiles, the subframe has to be arranged vertically.

Fire station, Legionowo

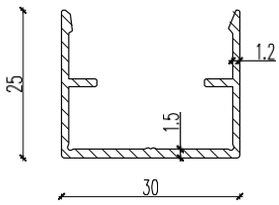
## ARTRYS DECORATIVE PROFILE – **ADP1**



**Material:**
Aluminium EN AW 6060/6063/6005 T6/T66

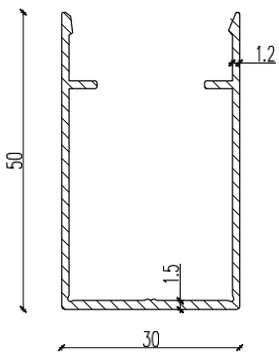
# ARTRYS DECORATIVE PROFILE – **ADP2**




**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

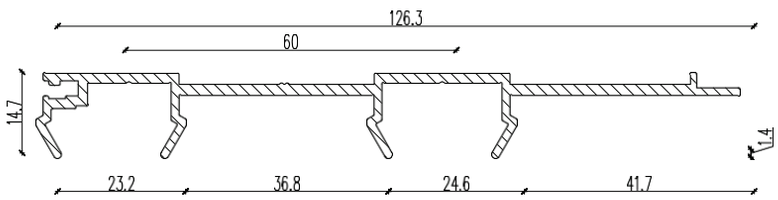
# ARTRYS DECORATIVE PROFILE – **ADP3**




**Material:**

Aluminium EN AW 6060/6063/6005 T6/T66

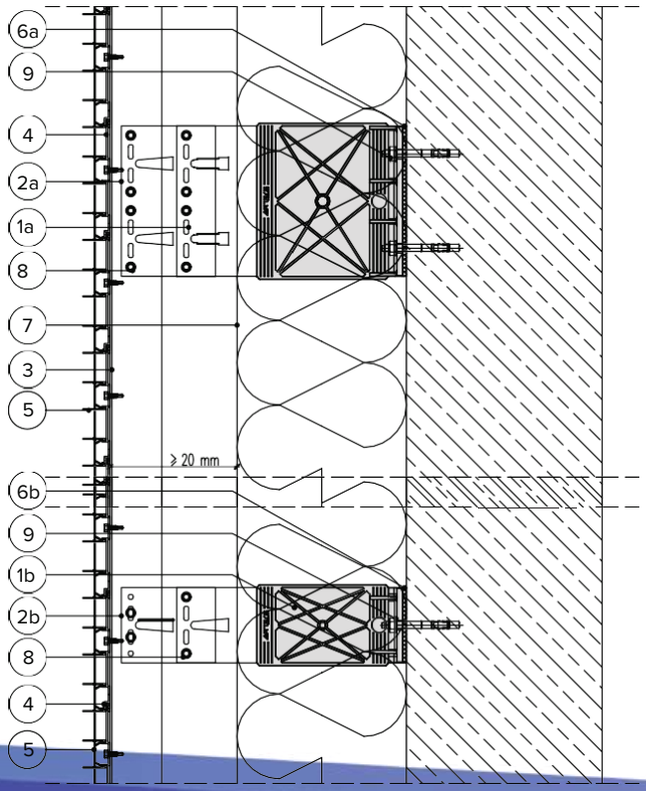
# ARTRYS BASE PROFILE – **ABP**




**Material:**

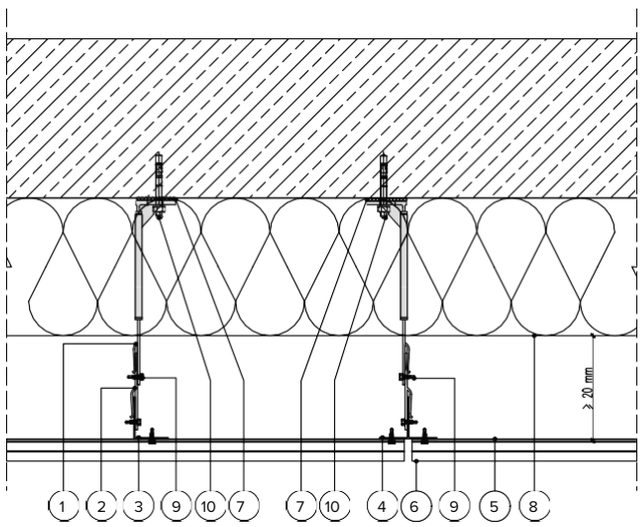
Aluminium EN AW 6060/6063/6005 T6/T66

# SECTION



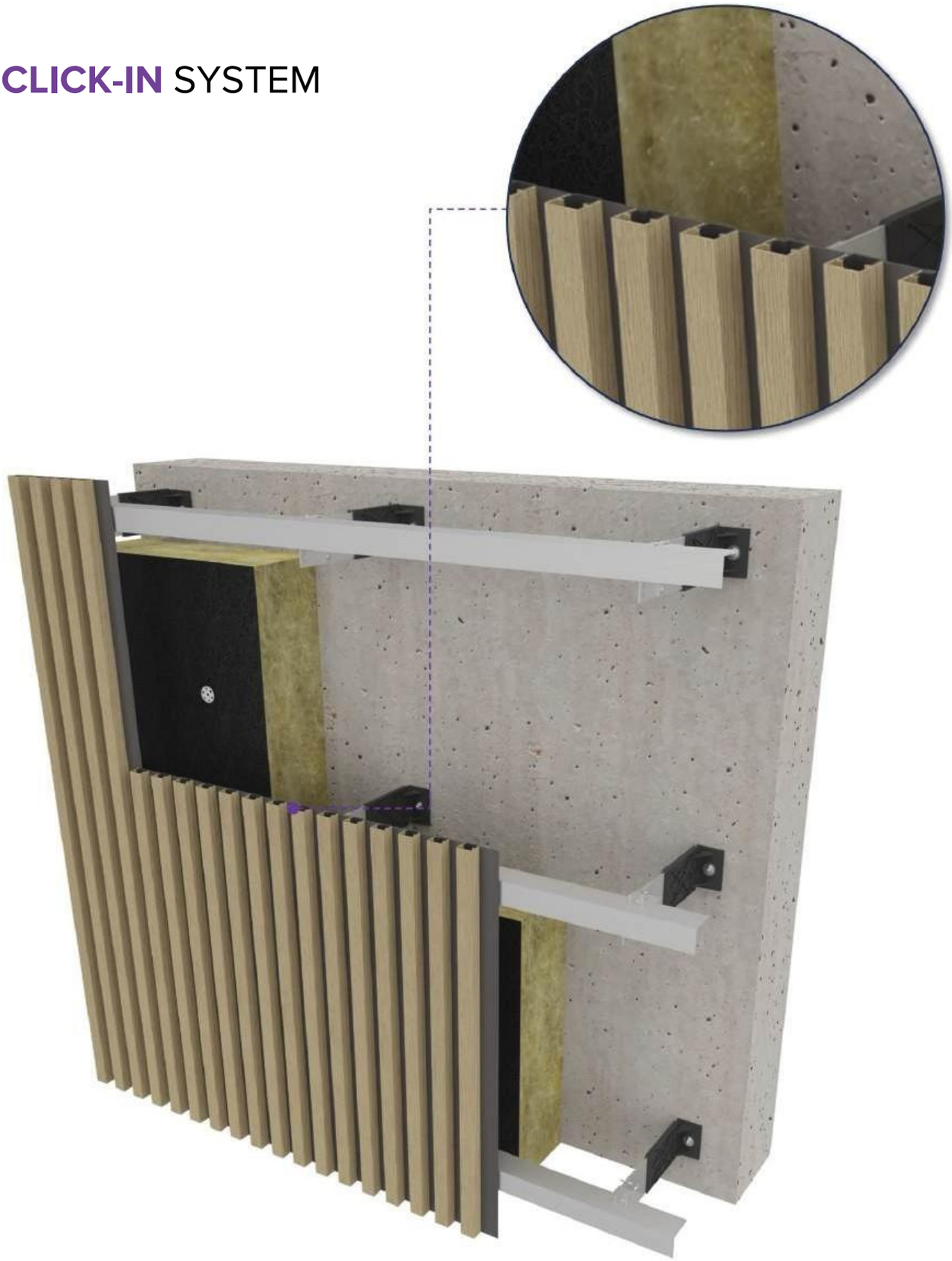

| | |
|---|---|
| 1a | bracket, e.g., BLP PRO ECO passive bracket |
| 1b | bracket, e.g., BMP PRO ECO passive bracket |
| 2a | EL extension (optional) |
| 2b | EM extension (optional) |
| 3 | ALP/ATP aluminium profile |
| 4 | ABP base profile |
| 5 | ADP1 decorative profile |
| 6a | PVC-U foam thermostop for the BLP PRO ECO bracket (optional) |
| 6b | PVC-U foam thermostop for the BMP PRO ECO bracket (optional) |
| 7 | mineral wool with tissue |
| 8 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 9 | fastener fixing the bracket to the exterior wall |

# PLAN




| | |
|---|---|
| 1 | bracket, e.g., BLP PRO ECO or BMP PRO ECO passive bracket |
| 2 | EL or EM extension (optional) |
| 3 | ALP aluminium profile |
| 4 | ATP aluminium profile |
| 5 | ABP base profile |
| 6 | ADP1 decorative profile |
| 7 | PVC-U foam thermostop for the BLP PRO ECO or BMP PRO ECO bracket (optional) |
| 8 | mineral wool with tissue |
| 9 | Ø4.8 x 19 mm corrosion-resistant steel screw connecting the bracket to the aluminium profile / extension |
| 10 | fastener fixing the bracket to the exterior wall |

# **CLICK-IN** SYSTEM



**artrys.pl**

**ARTRYS PROJEKT** ul.
Polna 25E
05-816 Opacz-Kolonia

+48 22 631 04 77
info@artrys.pl
www.artrys.pl