

# SCALEO Façade System MODULO Façade System

THE CLEVER MOUNTING SYSTEM FOR SUCCESS

### exterior

# for people who create

### Success Lies in the Right System

With the Modulo and Scaleo façade systems, FunderMax offers panels, mounting system and all the necessary accessories from a single source. Thus, you not only efficiently save time with your purchase, you can also rest assured you will receive impact-resistant, durable and absolutely lightfast façade panels and accessories in the proven FunderMax quality.



### **Design Meets Tradition!**

**MODULO** can easily be installed on wood or aluminum substructures and the different mounting possibilities allow you to lend completely new accents to your façade.

**SCALEO** can also be mounted on wood or aluminum substructures and provides your façade with more character thanks to its special scale-like look. A variety of solutions for inside and outside corners are also included.

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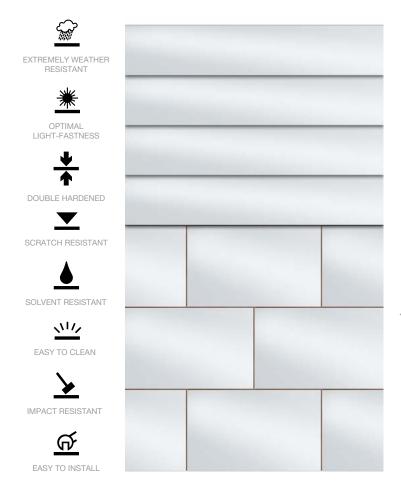
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### What Max Exterior Can Do

The Modulo and Scaleo façade systems always include the respective mounting system and the prefabricated panels according to your wishes. Our successful Max Exterior panels are the perfect choice for these façade systems. They are duromer high-pressure laminates (HPL) in accordance with EN 438-6 Type EDF that are produced in laminate presses under high pressure and high temperature. Double-hardened acrylic polyurethane resins provide extremely effective weather protection that is particularly suitable for permanent façade cladding.



### PROPERTIES\*:

- Weather resistant to EN ISO 4892-2
- lightfast acc. to EN ISO 4892-3
- Double hardened
- Scratch resistant
- Solvent resistant
- · Hail resistant
- Easy to clean
- Impact resistant EN ISO 178
- Suitable for all exterior applications
- Decorative
- Self-supporting
- Bending resistant EN ISO 178
- Frost resistant -80°C to 180°C (DMTA- OFI 300.128)
- Heat resistant -80°C to 180°C (DMTA- OFI 300.128)
- Easy to install

\* STANDARD- AND ACTUAL-VALUES YOU WILL FIND ON OUR WEBSITE WWW.FUNDERMAX.AT.

### **SCALEO:** A Robust Façade System with a Perfect Look

### **FUNDERMAX MAKES** TRADITION EVEN BETTER

With pre-fabricated Max Exterior panels for lap sidings, it is easy to design robust and modern façades. Through an ideal combination of an easy to install holding system with the proven characteristics of the Max Exterior façade panels. The perfect, comprehensive protection for façades. The double-hardened surface protects and the look is simply perfect. Thus, the façade panels are highly resistant against weathering and sunlight. In addition to optimal light fastness and scratch resistance, Max Exterior façade panels are also easy to clean and able to withstand even the harshest environmental conditions.

- Easy to mount (on wooden or aluminium substructure)
- Easy to clean
- Fast delivery for stock program
- Wide selection of Decors
- Lightfast and UV-resistant
- Weather resistant
- Hail resistant
- Scratch resistant
- Pre-fabricated panels
- Double hardened surface



DESIGN: ARCHITEKTURBÜRO FREI & WURZRAINER ZT



DESIGN: SERAU ARCHITECTURE









### The Quickest Way to More Character

Are you in a hurry? Then simply choose one of the ten lap siding designs we always have in stock. If you appreciate more choice, we also have over 100 other designs to choose from. Take a look at our extensive brochure for the Max Exterior Range of Decors.

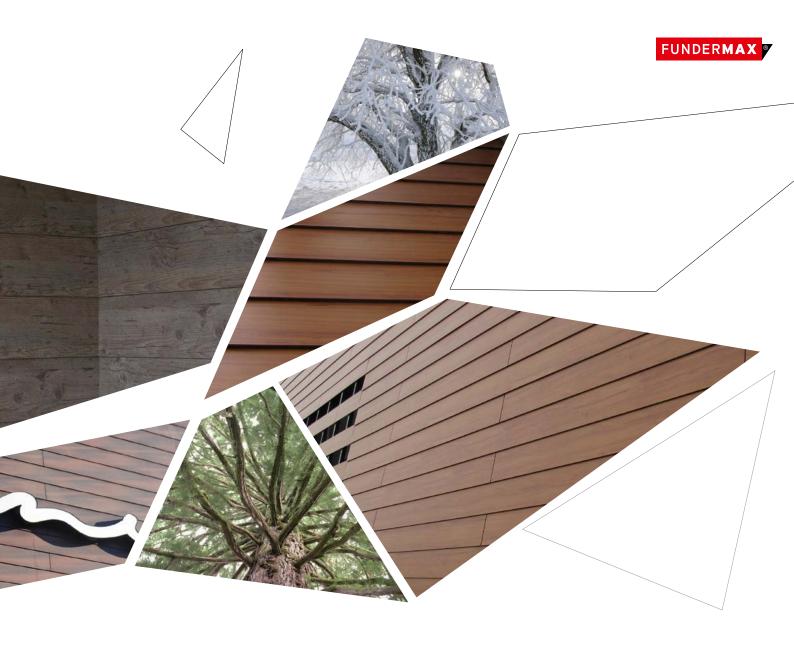
### 0077 NT Charcoal

### 0691 NT Purple

### 0085 NT White

0645 NT

Tobacco



### **0923 NT** Enigma



0927 NT Creek



0936 NT Thunder



**0932 NT** Akro Terra



**0801 NT** Fir Platinum



### **System SCALEO**



The advantages of an attractive system. With prefabricated Max Exterior panels for lap sidings, it is easy to design robust and modern facades.

Through an ideal combination of an easy to install holding system with the proven characteristics of the Max Exterior facade panels.

**Note:** Information about building regulation permits you will find at our website www.fundermax.at/service

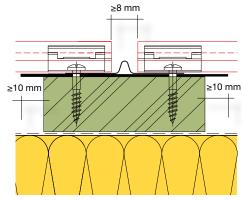
In Austria and Germany is no permission for building classes 1-3 (for panel width 250 mm) necessary.

#### **AS ACCESSORIES AVAILABLE:**

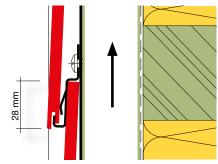
- Mounting clips incl. mounting instructions
- Vertical backing profile

### **ADVANTAGES:**

- All the benefits of the Max Exterior surface
- Lightfast and UV-resistant
- Hail resistant
- Weather resistant
- Double hardened surface
- Fast delivery for stock program
- Wide selection of decors
- Easy to install
- Ideal Scaleo board dimensions

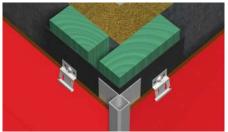


VERTICAL BACKING PROFILE



OVERLAP DIMENSION LAP-SIDING ELEMENTS

INFORMATION	SCALEO PANEL				
Format		2800 x 250 mm			
Surface coverage		222 mm			
Minimum order q	uantity = 1 package = 5 panels (or a multiple)	3.5 m <sup>2</sup>			
Panel thickness		6 mm			
Surface coverage	e / package	3.1 m <sup>2</sup>			
Surface coverage	e / panel	0.62 m <sup>2</sup>			
PHYSICAL DATA	A/PROPERTIES				
Artificial weatheri	ng EN ISO 4892-2	4-5			
Fire Behaviour	EN 13501-1	Euroclass B-s2, d0			
SCALEO ACCES	SORIES				
Mounting clips (a	100 clips/unit				
Vertical backing	orofile length = 246 mm	10 pcs/unit			
Vertical backing	profile length = 2.500 mm	20 pcs/unit			







EXTERNAL CORNER WITH SQUARE PROFILE

EXTERNAL CORNER WITH CROSS PROFILE

INTERNAL CORNER PROFILE

### **Mounting instructions**



### 1. PREPARING THE SUBSTRUCTURE

Max Exterior Scaleo elements are installed using mounting clips fixed to a substructure of vertical wooden battens, which are shaped and predryed (wood moisture 15%±3). Each batten must be at least 50 mm wide for a single mounting clip, or 75 mm wide where two panels join to allow enough space for two mounting clips side-byside (Pay attention to constructive or chemical treated wood preservation!). The gap between each batten should not exceed 500 mm\*. The Scaleo panels are installed starting from the bottom. First of all, fit a horizontal base bar. Now fit the first row of mounting clips so they rest on the bar. Make sure you fit 2 mounting clips at each vertical joint between panels. Alternatively you can use an aluminium substructure. Length of the aluminium profile is maximum 2800 mm. Width of the profile with one mounting clip 40 mm and in case of joints (2 clips) minimum 80 mm. For fixing against shifting we recommend one self-tapping screw with fillister head per panel (screwed in the middle).

\*THE SPACING SPECIFIED APPLIES TO LOW BUILDINGS, I.E. UP TO 8 M IN HEIGHT.



### 2. INSTALLING THE FIRST ROW OF PANELS

Place the groove along the lower edge of the Max Exterior Scaleo elements (the notch points downwards) onto the mounting clips. Secure the panels in place by fixing mounting clips along the top edge of each panel. The panel above overlaps the first row of panels by approx. 28 mm. Fit a screw next to the top middle mounting clip on each panel. This is designed to stop the panel shifting sideways.



### 3. VERTICAL JOINT

A batten for fixing the mounting clips must be located at each vertical joint. Two mounting clips, one either side of the joint, are needed to provide the necessary hold. Please use Max Exterior backing strips to seal the vertical joint between cladding panels. If siding elements are arranged so the vertical joints are offset then it is sufficient to install the panel plus joint profile using a single mounting clip. If vertical joints are in a line then two mounting clips need to be used. There must be a gap of at least 8 mm between the panels at the joint.

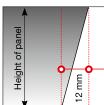


### 4. OUTSIDE CORNERS/INSIDE CORNERS WITH MITRE

Max Exterior Scaleo elements can be mitred for both outside and inside corners.

Outside corners: The top edge of the panel must be 12 mm shorter than the lower edge of the panel (regardless of the panel width).

tected with a an EPDM protective tape (min. thickness 1.2 mm) to prevent water entering.



(regardless of the panel width).

Inside corners: The lower edge of the Scaleo panel must be 12 mm shorter than the top edge of the panel (regardless of the panel width). The mitred edges must have a chamfer. The substructure needs to be pro-

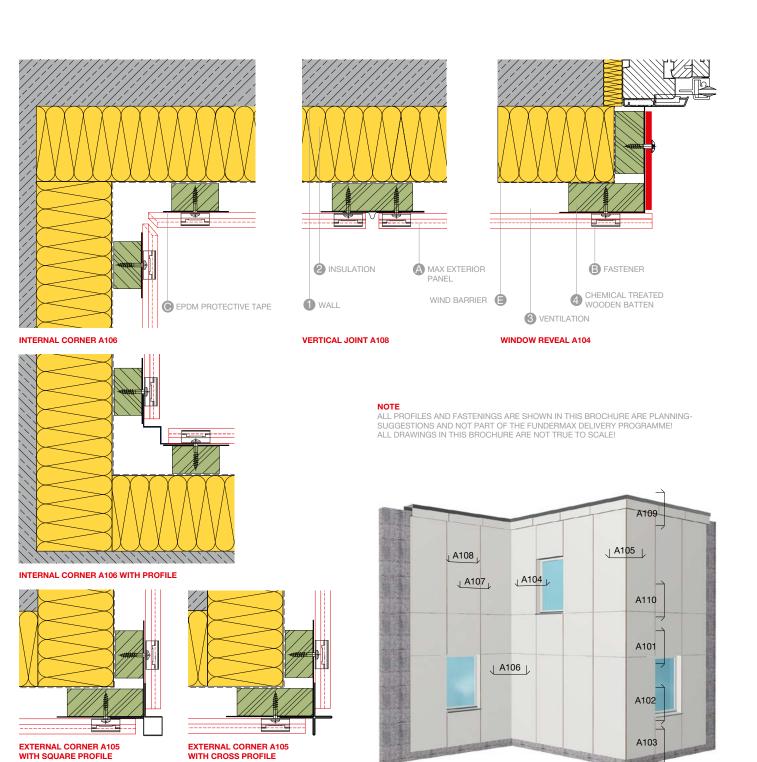
**Corner profiles:** Elements can be installed on both outside and inside corners using a variety of shapes of corner profiles. In this case the panels are cut to size without a mitre. Make sure there is a gap of at least 5 mm between each panel and the corner profile.



### 5. INSTALLING THE TOP ROW OF PANELS

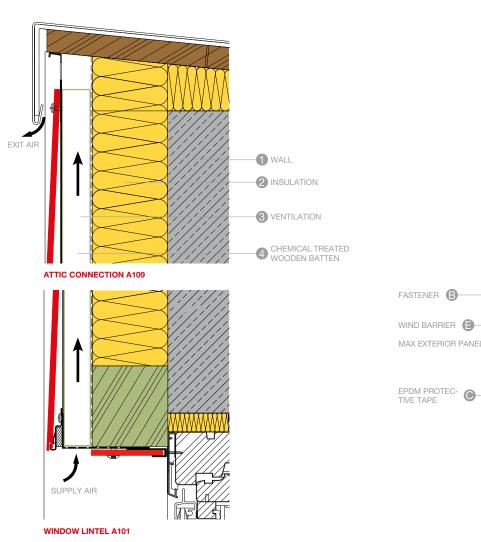
Secure the top row of panels by fitting screws along the top edge of each panel. Use screws with painted heads to match the colour of the panels, as used for the installation of full-sized Max Exterior cladding boards.

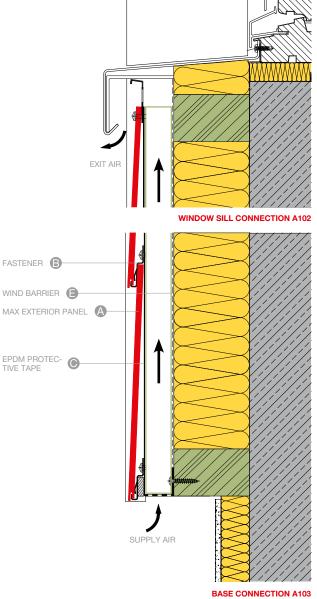
# Construction-details horizontal sections SCALEO Façade System on wooden substructure



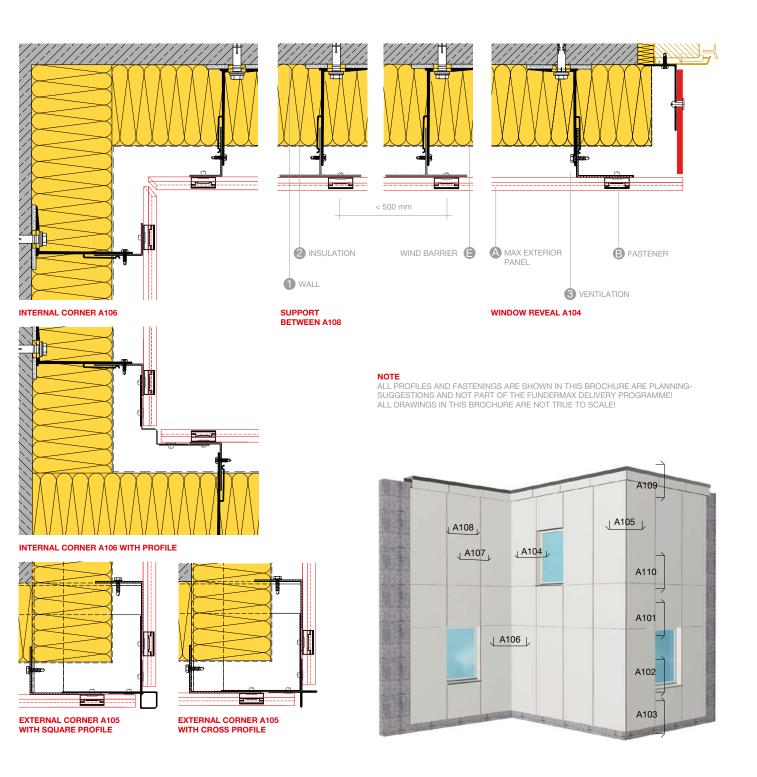


# Construction-details vertical sections SCALEO Façade System on wooden substructure



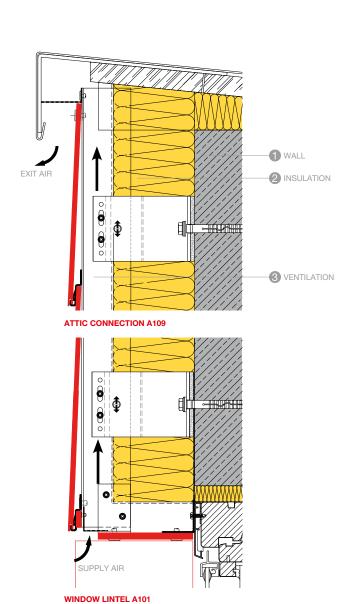


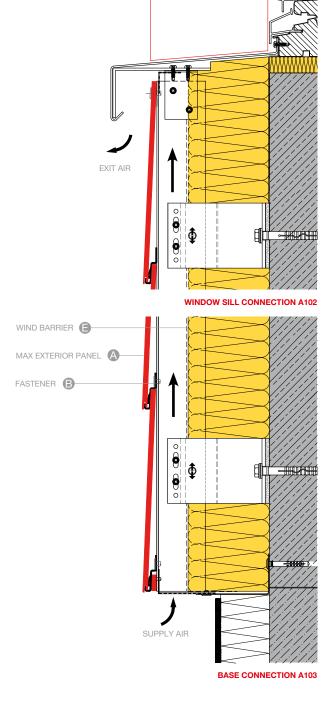
# Construction-details horizontal sections SCALEO Façade System on aluminium substructure





# Construction-details vertical sections SCALEO Façade System on aluminium substructure





### MODULO: The closed, modern façade from FunderMax



- Easy to mount (on wooden or aluminium substructure)
- Narrow joints (2 mm)
- Easy to clean
- Fast delivery for stock program
- Wide selection of decors
- Lightfast and UV-resistant
- Weather resistant
- Hail resistant
- Scratch resistant
- Pre-fabricated panels
- Double hardened surface

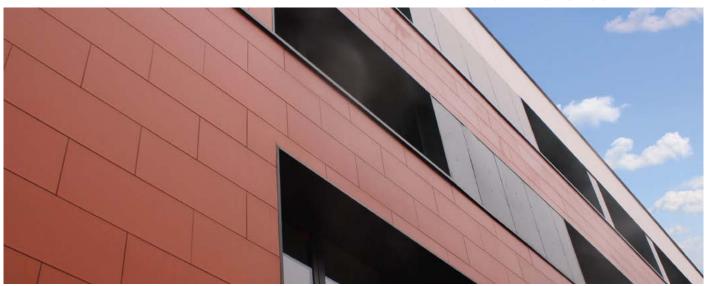
### MODULO FAÇADE SYSTEM With this modern facade fasten

With this modern façade fastening system it is possible to create a façade—as well as interior wall cladding— with prefabricated standard elements with invisible mechanical brackets. The substructure may be a standard wooden or an aluminium substructure.

**Note:** Information about building regulation permits you will find at our website www.fundermax.at/service



DESIGN: BARILLOT ARCHITECTURE

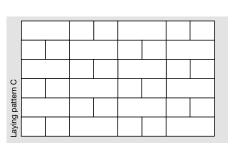


INFORMATION MODULO PANEL	
MODULO 500	
Format	465 x 420 mm
Surface coverage	455 x 414 mm
Minimum order quantity = 1 package = 6 panels (or a multiple)	1.17 m²
Panel thickness	8 mm
Surface coverage / package	1.13 m²
Surface coverage / panel	0.19 m²
MODULO 1000	
Format	920 x 420 mm
Surface coverage	910 x 414 mm
Minimum order quantity = 1 package = 6 panels (or a multiple)	2.32 m <sup>2</sup>
Panel thickness	8 mm
Surface coverage / package	2.26 m <sup>2</sup>
Surface coverage / panel	0.38 m²
PHYSICAL DATA/PROPERTIES	
Artificial weathering EN ISO 4892-2	4-5
Fire behaviour EN 13501-1	B-s2,d0
MODULO ACCESSORIES	
Mounting bracket (approx. 11 pcs/m²)	100 pcs/unit
Mounting track (L=3.000 mm)	10 pcs/unit



ACCESSORIES: FASTENER; FASTENER PROFILE; LOCKING PIN; ASSEMBLY AID

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### LAYING PROCEDURES OF MODULO

By choosing this laying procedure—and the selection of the décor or varying decors—you have many design possibilities. **Note:** The arrangement of sheet sizes can significantly influence time and effort required for the substructure. For joints lying vertically one atop the other, particularly careful work is necessary.

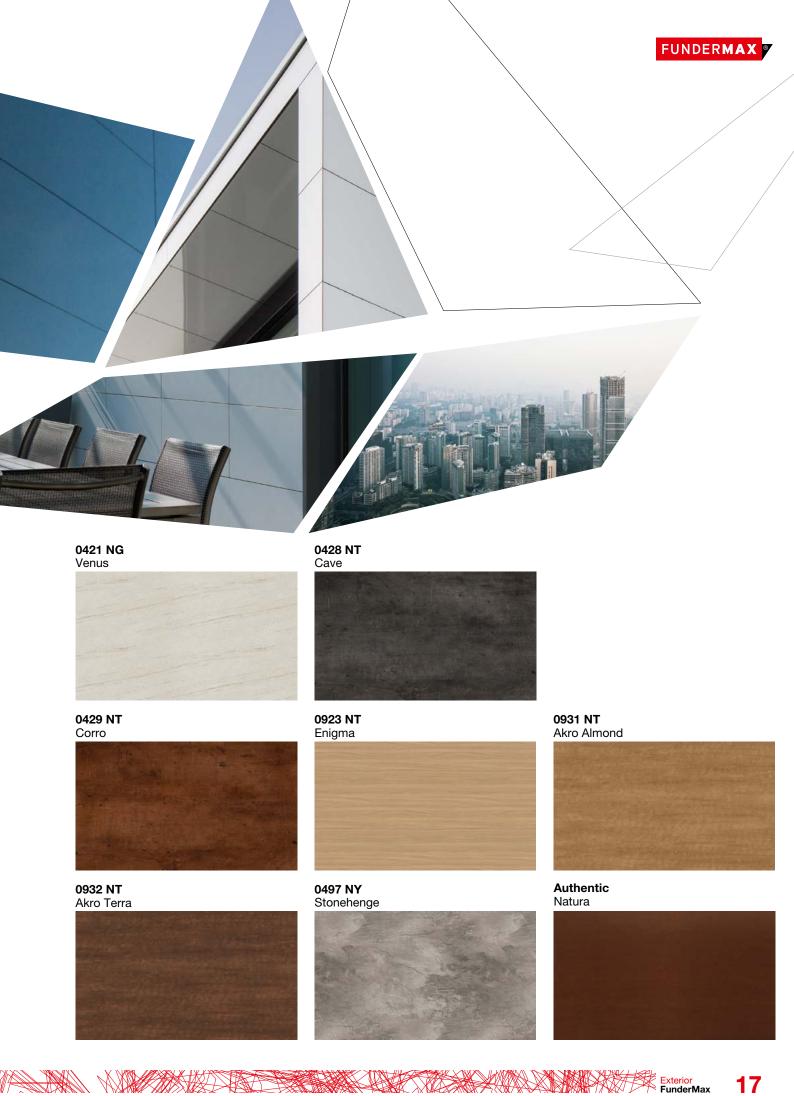
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Are you in a hurry? Then simply choose one of the 13 designs we always have in stock. If you appreciate more choice, we also have over 100 other designs to choose from. Take a look at our extensive brochure for the Max Exterior Range of Decors.





### **Assembly**

#### 1. PREPARATION

To achieve a visually appealing separation and a costefficient cut-off, prior to commencing assembly it is recommended to draw up an exact plan of the façade view based on field measurements. Pay attention to fitting pieces for windows, doors or corners at either end. Do not forget the inner faces of windows and doors when determining the materials to be used. You can also use any oddments that may arise in another line. When doing so, be careful of the vertical rabbets. The elements cannot be rotated! It may be conducive to the appearance (symmetry of support profiles, cuts to fit in the case of windows) and offcuts to begin at the left side and not with an entire element. Determine the needs for Modulo 500 and/or Modulo 1000 elements on this basis.

#### 2. SUBSTRUCTURE PREPARATION

As a matter of principle, local building regulations are to be followed in all cases. Pay attention to the hints in our brochure "Exterior Technique". The wooden substructure has to be constructed according to the national normes (wood moisture 15%±3). Pay attention to chemical or constructive wood preservation! The basic prerequisite for perfect assembly of the façade system Modulo is a professional, precisely aligned substructure.

In case of using facade screws (List of suppliers you will find in our brochure "Exterior Technique") we recommend a primary drilling of the wooden substructure according to the hints of the screw manufacturer.

The wooden substructure battens has to be protected permanently against moisture by an UV- and weather-resistant EPDM protective tape, which is minimum 1.2 mm thick. It is also possible to use an aluminium substructure. The average distance for the standard lengths of 465/920 mm is 455 mm. For special lengths, please determine this distance yourself. If you use the exterior corner profiles that we offer, a batten width at the exterior corner of 100 mm is recommended.

Due to the system sheets' horizontal and vertical rabbeting, we recommend beginning assembly at the bottom left. In general, the assembly of all façade parts, including the window boards, must begin simultaneously with the façade assembly and be performed from the bottom to the top.



### 3. ASSEMBLY OF THE FIRST ROW

Once the substructure has been precisely assembled and the necessary metal covering work performed, mount first the fastener profile. This must be aligned horizontally very precisely. The fastener profile of Modulo has to be mounted with a fix-point and sliding-points (long hole 5.1 x 11 mm). All further rows are mounted with Modulo fasteners.





### 4. ASSEMBLY OF THE FIRST MODULO ELEMENTS

Set the Modulo elements on top of the substructure beginning at the lower left (with the groove facing downwards). Prior to screwing on the upper bracket, the assembly aid must be inserted into both of the holes in the fastener. This guarantees that the sheet will have sufficient vertical clearance. Screw each fastener tightly onto the substructure using two facade screws (at least V4A), 4.8 x 30 mm.

### **NEXT MODULO ELEMENT**

5. ASSEMBLY OF THE

Screw the second element to the first one at a distance of 2 mm. Use the assembly aid to determine the distance. After screwing on the second element and checking the distance, drill through the Modulo element at the upper left fastener in the hole provided and affix the element to the substructure using the supplied locking pin. The element is thereby secured against lateral shifting.

In case of an aluminium-substructure we recommend to put an approx. 3 cm long glue strip on the lower Modulo fastener (Note: only one fixing per element with glue strip is necessary - see page 21). The surfaces of the fastener and panel have to be cleaned according to the hints of the glue-manufacturer. SIKA and Innotec offer such glue systems. Please follow their instruction notes.

#### 6. CUTS TO FIT/LATITUDE

Continue assembly of the façade in this fashion. Cut the right side to fit, as needed. Please always heed a latitude of at least 5 mm to the other construction parts.



### 7. CONCLUDING ASSEMBLY

For upper or lower cuts to fit, the sheet is to be fastened visibly with façade screws or façade rivets with an appropriate grip of rivet (from 19 mm plus, e.g. 5 x 25 mm rivet). For distancing to the substructure, please use off-cuts from the Modulo elements (fasteners are 8 mm thick, sheet off-cuts are likewise 8 mm thick).









SUPPLIERS FOR FURTHER ACCESSORIES AND GENERAL WORKING INSTRUCTIONS CAN ALSO BE FOUND IN OUR BROCHURE "TECHNIQUE EXTERIOR"

## Basic Design of a MODULO Façade



MODULO FAÇADE SYSTEM

### **LEGENDE**

- LEGENDE

  A WALL

  B SUBSTRUCTURE

  C VENTILATION

  D INSULATION

  E MOUNTING CLIP

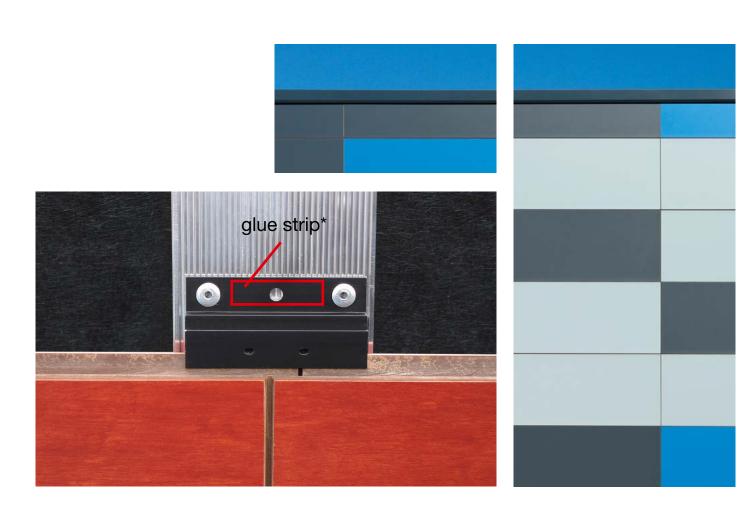
  F MODULO ELEMENT

  G BUILDING ELEMENTS LIKE WINDOWS/
  DOORS OR WALL SOCKETS

  H EPDM PROTECTIVE TAPE (MIN. 1,2 mm THICK)



### **MODULO Façade System** with Alu-Substructure

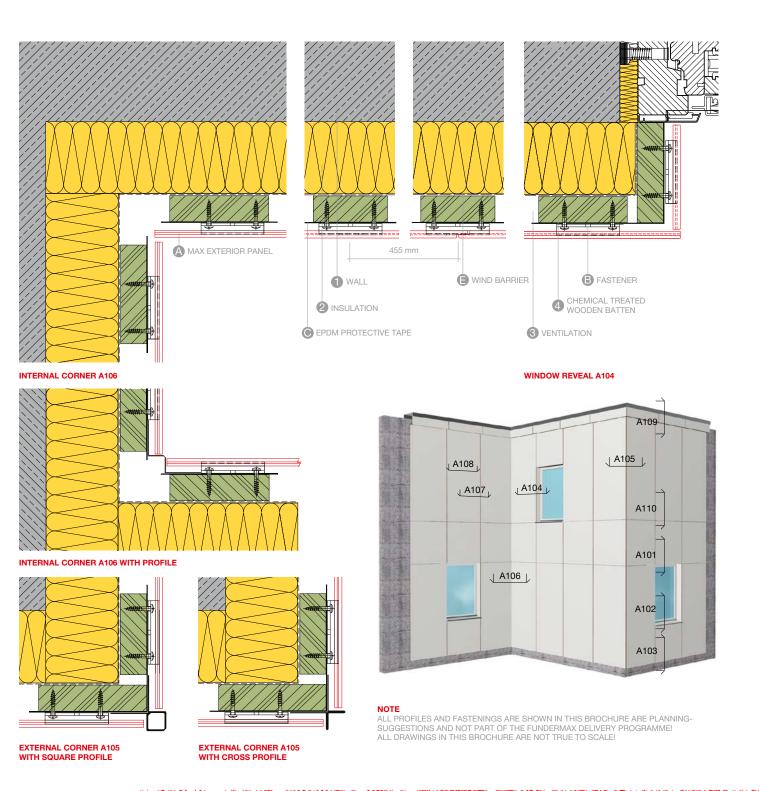


Of course, Modulo can also be assembled with an aluminium substructure. For this type of assembly, 2 blind rivets (5 x 10 mm with max. head K14) per fastener must be used if the substructure's material thickness is between 1.5 and 3 mm (length max. 2800 mm).

The installation process is identical to that of the wooden substructure.

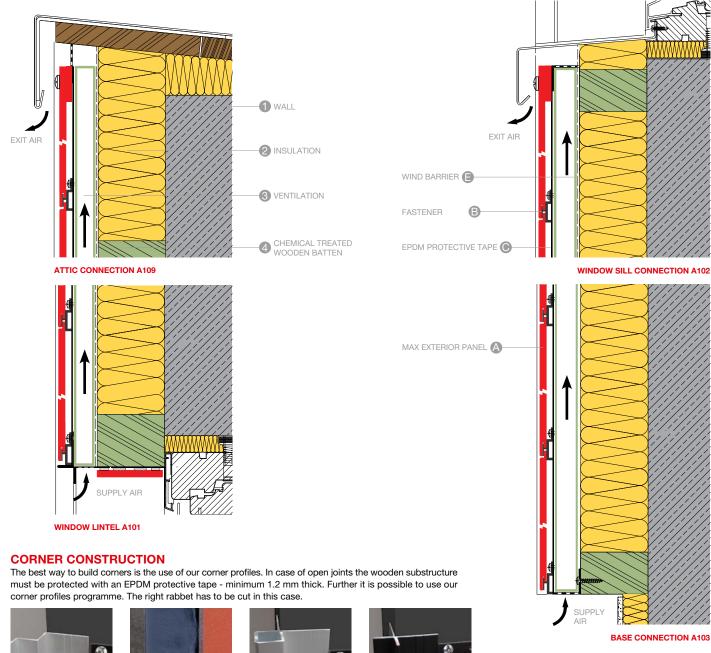
\*ONTO AN ALUMINIUM-SUBSTRUCTURE WE RECOMMEND TO FIX THE PANEL AGAINST SHIFTING WITH ONLY ONE GLUE STRIP PER PANEL (APPROX. 3 CM LONG).

# Construction-details horizontal sections MODULO Façade System on wooden substructure





# Construction-details vertical sections MODULO Façade System on wooden substructure







OPEN CORNER Fig

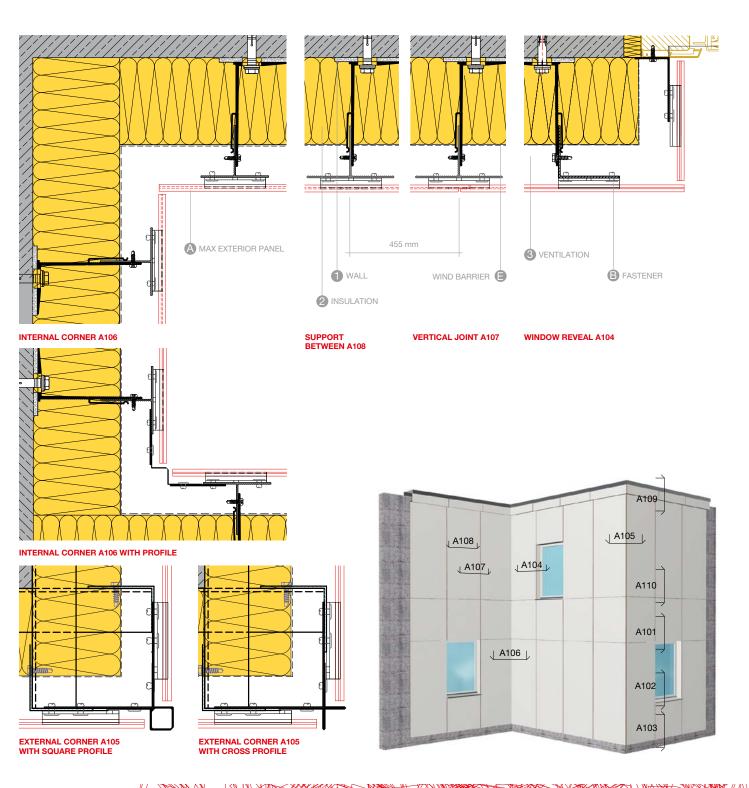


SQUARE CORNER Fig. 3 PROFILE



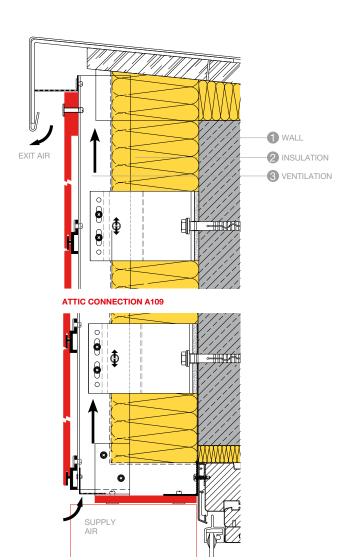
CROSS CORNER F

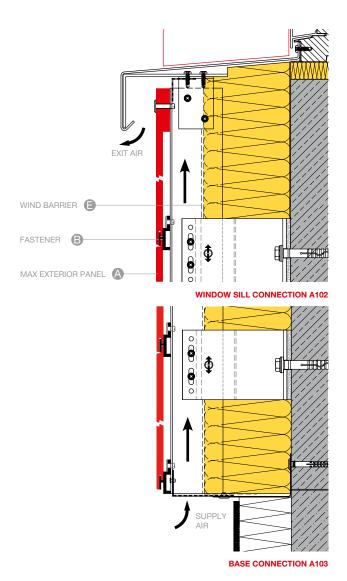
# Construction-details horizontal sections MODULO Façade System on aluminium-substructure





### **Construction-details vertical sections** MODULO Façade System on aluminium-substructure





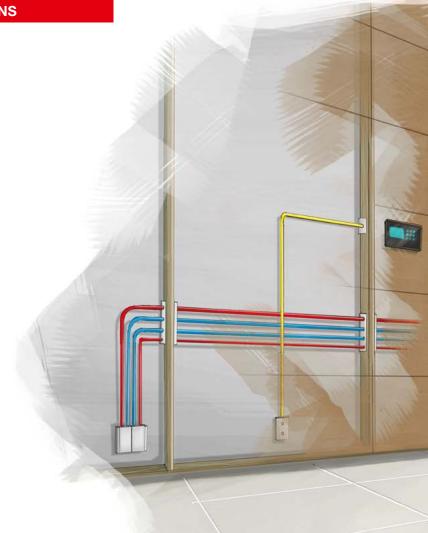
ALL PROFILES AND FASTENINGS ARE SHOWN IN THIS BROCHURE ARE PLANNING-SUGGESTIONS AND NOT PART OF THE FUNDERMAX DELIVERY PROGRAMME! ALL DRAWINGS IN THIS BROCHURE ARE NOT TRUE TO SCALE!

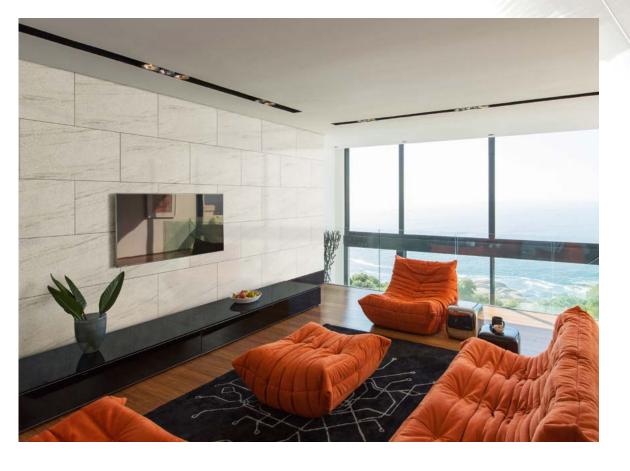
WINDOW LINTEL A101

### **MODULO:** For Modern Interior Design

Thanks to its decorative effect, Modulo is of course also perfect for interiors. Narrow discreet joints, glossy surfaces, quick installation – Take advantage of our system and large variety of designs to make your rooms even higher and more comfortably pleasant. Practical advantage: All the cables are hidden behind the panel construction.

In addition to the stock designs on pages 16/17, you can choose from a further 100 designs in our Max Exterior Collection. From interior walls to exterior façades, designing any surface is easy with Modulo.







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