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Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-25/0730 of 2025/09/23

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the
construction product:

m.look for use as cladding kit with rivets

Product family to which the
above construction product
belongs:

External wall cladding kit with visible punctual fixings

Manufacturer:

FunderMax GmbH
Klagenfurter Straße 87-89
AT-9300 St. Veit an der Glan
Telephone: 0043 59 4940
Internet: www.fundermax.com

Manufacturing plant:

FunderMax GmbH
IZ-NÖ-Süd Straße 3
AT-2355 Wiener Neudorf

This European Technical
Assessment contains:

13 pages including 2 annexes which form an integral
part of the document

This European Technical
Assessment is issued in
accordance with Regulation
(EU) No 305/2011, on the
basis of:

EAD 090062-01-0404 – Kits for external wall claddings
mechanically fixed.

This version replaces:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

The Fundermax m.look is an architectural facade panel with a reinforced glass fibre, non-combustible mineral core. The panels are covered with UV-resistant decorative layers of melamine resin impregnated decorative papers and a polyurethane acrylic paint layer on both sides (weather protection film – surface type NT).

The maximum panel format is 3670 x 1630 mm. The facade panels should be used in portrait or landscape format. The panels are manufactured in accordance with EN 438-6 (manufacture of HPL panels):

Thickness:

7,0 mm

Tolerance: +0,8/-0,4 mm:

9,0 mm

Tolerance: +0,8/-0,5 mm:

Weight:

7 mm panels: 12,6 (+2/-1) kg/m²

9 mm panels: 16,2 (+2/-1) kg/m²



Figure 1: m.look façade panel

The transition between the fastener and the substructure represents the system limit between the object to be assessed and the object-specific components of the facade system to be implemented in accordance with the applicable technical building regulations.

On the facade the maximum center distance between the fastening points may not exceed 800 mm. The distance should not be wider than 600mm when used as rear-ventilated exterior ceiling soffits. The distance to the edge should be 30-80mm

In a soffit situation the engineer should specify the substructure and number of fixings required based on the weight of the system and any other requirements e.g., wind loads.

The m.look facade panels are mechanically attached to a metallic substructure (aluminum/steel) using blind rivets (aluminum/stainless steel) type MBE-FN 5x L K14 or

SFS AP-5.0 x L K14. For more information about the panels and the rivet for mounting, please see Annexes A1 and A2.

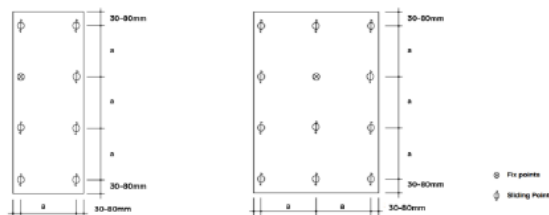


Figure 2: Distances for m.look rivets

Hole Diameter in the Facade Panels:

The panels are fastened using a sliding and fixed point system. The fixed points are implemented with a drill hole diameter of Ø5.1 mm each in the facade panel and substructure profile, whereby each facade panel always has a fixed point, and all other attachment points are designed as sliding points.

The sliding points are realized with a drill hole diameter of Ø8.5 mm in the facade panel, which ensures a constraint-free bearing on the substructure. All fastening points are to be made using a flexible mouthpiece during the setting process, which should ensure a distance of 0.3 mm between the rivet head and the panel surface. Use a centering drill tool at the sliding points to position the rivets in the center of the drill hole in the facade panel.

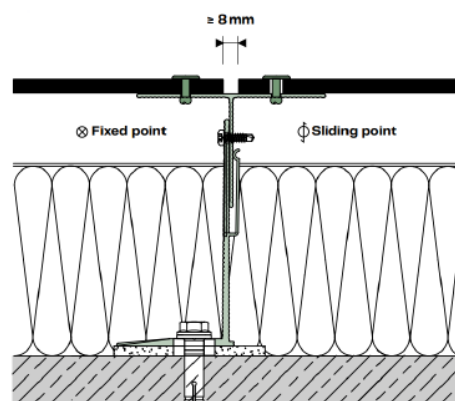


Figure 3: m.look façade panel fixed and sliding point mounting

Joints

The joints between the facade panels may be open (width of the open joints ≥ 8 mm) or closed with joint profiles in a non-restrained construction.

Rear Ventilation

The cladding kit has to be used in ventilated facades. Ventilation and drainage must be provided behind the system. The clear cavity between the back of the panel and substrate wall (or insulation if installed within the cavity) must be at least 20 mm wide, to ensure that a minimum ventilation area of 200 cm²/m of the façade cladding is achieved.

The distance may be reduced locally to 5 mm, e.g. due to the substructure or uneven walls.

All ventilation openings around the periphery of the system can be suitably protected with mesh to prevent the ingress of birds, vermin and insects. Inlet and outlet openings must have a free cross-section of at least 150 cm²/m.

Substructure

The supporting profiles of the aluminium substructure must be extruded profiles according to EN 755-25 with a tensile strength $R_m \geq 245 \text{ N/mm}^2$ and a yield point $R_p 0.2 \geq 200 \text{ N/mm}^2$ (e.g. made of the alloy EN AW 6063 T66). The nominal thickness of the substructure profiles must be at least 2.0 mm. Thicker support profiles can also be applied if a longer blind rivet is used.

Provided the corrosion protection requirements are observed, the m.look cladding kit considered here can be attached to support profiles made of aluminum and steel alloys that demonstrably meet the corrosion protection requirements using the appropriate rivet.

Static verification of the substructure is not the subject of this ETA and must be performed separately.

The substructure must be designed so that a tension-free fastening of m.look Exterior panels is ensured.

The aluminium substructure must meet the requirements of the national standards and must be assembled in accordance with the specifications of the manufacturer of the substructure.

Thermal insulation used with the system must consist of non-combustible mineral wool insulation panels in accordance with EN 13162, which must be attached to the structure independently of the substructure.

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The FunderMax m.look cladding kit is intended for use as protective and decorative cladding on external walls of domestic and non-domestic buildings of masonry or concrete, above the damp-proof course (dpc) level.

The cladding kit transfers its self-weight and design wind loads through the supporting subframe to the substrate wall. The substrate wall and supporting subframe must be capable of resisting the associated loads.

The cladding kit is assessed as a kit family A in accordance with EAD 090062-01-0404.

The fire classification, **Euroclass A2-s1, d0** in accordance with EN 13501-1 and Delegated Regulation 2016/364 (table 3) is based on an application area where the panel can either be mounted directly on substructure, with a specific rear ventilation gap width to the substructure or free standing. Mineral wool insulation (density 30 kg/m³ - 70 kg/m³, melting point > 1000 °C) must be used as insulation.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of at least 25 years, provided the cladding kit are subject to an appropriate use according to the provisions of this assessment.

The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer but are to be regarded only as a means for choosing the right product in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment.

Characteristic	Assessment of characteristic															
3.2 Safety in case of fire (BWR 2)																
Reaction to fire	The m.look cladding system is classified as Euroclass A2-s1, d0 in accordance with EN 13501-1 and Delegated Regulation 2016/364.															
Façade fire performance	No performance assessed															
Propensity to undergo continuous smoldering	Not relevant															
3.3 Hygiene, health and the environment (BWR 3)																
Watertightness of joints (protection against driving rain)	Not watertight (open joints)															
Water absorption (for non-ventilated facades)	Not relevant															
Water vapour permeability (for non-ventilated facades)	Not relevant															
Drainability	Drainable															
Content, emission and/or release of dangerous substances*	No performance assessed															
3.4 Safety and accessibility in use (BWR 4)																
Wind load resistance	<table><tr><td>Thickness</td><td>Wind load resistance, Q [kN/m²]</td></tr><tr><td>7 mm</td><td>2,02</td></tr><tr><td>9 mm</td><td>3,51</td></tr></table>	Thickness	Wind load resistance, Q [kN/m ²]	7 mm	2,02	9 mm	3,51									
Thickness	Wind load resistance, Q [kN/m ²]															
7 mm	2,02															
9 mm	3,51															
Resistance to horizontal point loads	No damage															
Impact resistance	<table><tr><td>Thickness</td><td>Use category</td></tr><tr><td>7 mm</td><td>Category III</td></tr><tr><td>9 mm</td><td>Category I</td></tr></table> <p>Impact resistance was tested with a hard body impact of 1-10 J, soft body with 10-400 J</p>	Thickness	Use category	7 mm	Category III	9 mm	Category I									
Thickness	Use category															
7 mm	Category III															
9 mm	Category I															
Bending strength	<table><tr><td>Thickness</td><td>Mean value [N/mm²]</td><td>Characteristic value [N/mm²]</td></tr><tr><td>7 mm Standard climate</td><td>54,32</td><td>48,91</td></tr><tr><td>7 mm - 20°C</td><td>55,72</td><td>49,06</td></tr><tr><td>9 mm Standard climate</td><td>61,64</td><td>54,88</td></tr><tr><td>9 mm - 20°C</td><td>64,02</td><td>58,16</td></tr></table>	Thickness	Mean value [N/mm ²]	Characteristic value [N/mm ²]	7 mm Standard climate	54,32	48,91	7 mm - 20°C	55,72	49,06	9 mm Standard climate	61,64	54,88	9 mm - 20°C	64,02	58,16
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9 mm Standard climate	61,64	54,88														
9 mm - 20°C	64,02	58,16														

Characteristic	Assessment of characteristic																													
Creep Test**	Not relevant																													
Pull-through resistance	<table><tr><th colspan="4">Pull-Through Resistance</th></tr><tr><th>Panel Thickness</th><th>Fixing Position</th><th>F_{u,m} [N]</th><th>F_{u,c} [N]</th></tr><tr><td>7 mm</td><td rowspan="2">Corner 30/30</td><td>908</td><td>792</td></tr><tr><td>9 mm</td><td>1347</td><td>1227</td></tr><tr><td>7 mm</td><td rowspan="2">Edge 150/30</td><td>893</td><td>730</td></tr><tr><td>9 mm</td><td>1829</td><td>1624</td></tr><tr><td>7 mm</td><td rowspan="2">Centre 200/200</td><td>1810</td><td>1666</td></tr><tr><td>9 mm</td><td>2455</td><td>2214</td></tr></table>	Pull-Through Resistance				Panel Thickness	Fixing Position	F _{u,m} [N]	F _{u,c} [N]	7 mm	Corner 30/30	908	792	9 mm	1347	1227	7 mm	Edge 150/30	893	730	9 mm	1829	1624	7 mm	Centre 200/200	1810	1666	9 mm	2455	2214
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7 mm	Corner 30/30	3312	2966																											
9 mm		3140	2852																											
Axial tension resistance	Not relevant																													
Shear load resistance	Not relevant																													
Combined tension and shear load resistance**	Not relevant																													
Resistance of slot	Not relevant																													
Resistance to vertical load	Not relevant																													
Pull-through resistance of fixings from profile	Not relevant																													
Resistance of punctual cladding fixings	Not relevant																													
Resistance of profiles	See information in annex B																													
Subframe fixings, tension/pull-out resistance	No performance assessed																													
Subframe fixings, shear load resistance	No performance assessed																													
Bracket resistance (horizontal and vertical load)	No performance assessed																													
Resistance to seismic loads																														
Out-of-plane fundamental vibration period	No performance assessed																													
Resistance to seismic loads																														
Out-of-plane acceleration	No performance assessed																													
Resistance to seismic loads																														
In-plane displacement	No performance assessed																													
3.5 Protection against noise (BWR 5)																														
Airborne sound insulation	No performance assessed																													

Characteristic	Assessment of characteristic												
3.6 Energy economy and heat retention (BWR 6)													
Thermal resistance	No performance assessed												
3.7 Durability													
Hygrothermal behavior	No visual defects												
Behavior after pulsating load	<table><tr><td></td><td>7 mm before</td><td>7 mm after</td><td>Ratio</td></tr><tr><td>Pull through resistance After 10.000 cycles Fixing position centre</td><td>3020 N</td><td>2507 N</td><td>0,83</td></tr></table>		7 mm before	7 mm after	Ratio	Pull through resistance After 10.000 cycles Fixing position centre	3020 N	2507 N	0,83				
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Freeze-thaw resistance	<table><tr><td>Bending strength</td><td>Before</td><td>After</td><td>Ratio</td></tr><tr><td>7 mm</td><td>51,11 MPa</td><td>39,08 MPa</td><td>0,76</td></tr><tr><td>9 mm</td><td>45,53 MPa</td><td>30,01 MPa</td><td>0,66</td></tr></table>	Bending strength	Before	After	Ratio	7 mm	51,11 MPa	39,08 MPa	0,76	9 mm	45,53 MPa	30,01 MPa	0,66
Bending strength	Before	After	Ratio										
7 mm	51,11 MPa	39,08 MPa	0,76										
9 mm	45,53 MPa	30,01 MPa	0,66										
Behavior after immersion in water	Not relevant												
Dimensional stability – by humidity	<table><tr><td></td><td>High humidity lengthwise</td><td>High humidity crosswise</td></tr><tr><td>Length change [%]</td><td></td><td></td></tr><tr><td>7 mm</td><td>0,1</td><td>0,1</td></tr><tr><td>9 mm</td><td>0,1</td><td>0,1</td></tr></table>		High humidity lengthwise	High humidity crosswise	Length change [%]			7 mm	0,1	0,1	9 mm	0,1	0,1
	High humidity lengthwise	High humidity crosswise											
Length change [%]													
7 mm	0,1	0,1											
9 mm	0,1	0,1											
Dimensional stability – by temperature	<table><tr><td></td><td>Dry heat lengthwise</td><td>Dry heat crosswise</td></tr><tr><td>Length change [%]</td><td></td><td></td></tr><tr><td>7 mm</td><td>- 0,2</td><td>- 0,2</td></tr><tr><td>9 mm</td><td>- 0,1</td><td>- 0,2</td></tr></table>		Dry heat lengthwise	Dry heat crosswise	Length change [%]			7 mm	- 0,2	- 0,2	9 mm	- 0,1	- 0,2
	Dry heat lengthwise	Dry heat crosswise											
Length change [%]													
7 mm	- 0,2	- 0,2											
9 mm	- 0,1	- 0,2											
Chemical and biological resistance	No performance assessed												
UV radiation resistance	No changes												
Corrosion	Not relevant												
Accelerated ageing behavior of kit when the cladding element is made of thin metallic composite panels (TMCP)	Not relevant												

See additional information in section 3.8 and 3.9

** The characteristics are not relevant, since the cladding is not assessed used as horizontal or sloped surfaces in external ceilings or cornices (not roofs)

3.8 Methods of verification

The product is fully covered by EAD 090062-01-0404.
According to the Regulation (EU) No 305/2011.

3.9 General aspects related to the fitness for use of the product

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide if such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The FunderMax m.look cladding kit is manufactured in accordance with the provisions of this European Technical Assessment using the manufacturing processes as identified in the inspection of the plant by the notified inspection body and laid down in the technical documentation.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base.

4.1 AVCP system

According to the decision 2003/640/EC of the European Commission, as amended by 2001/596/EC, the system(s) of assessment and verification of constancy of performance (see Annex III to Regulation (EU) No 305/2011) is 2+.

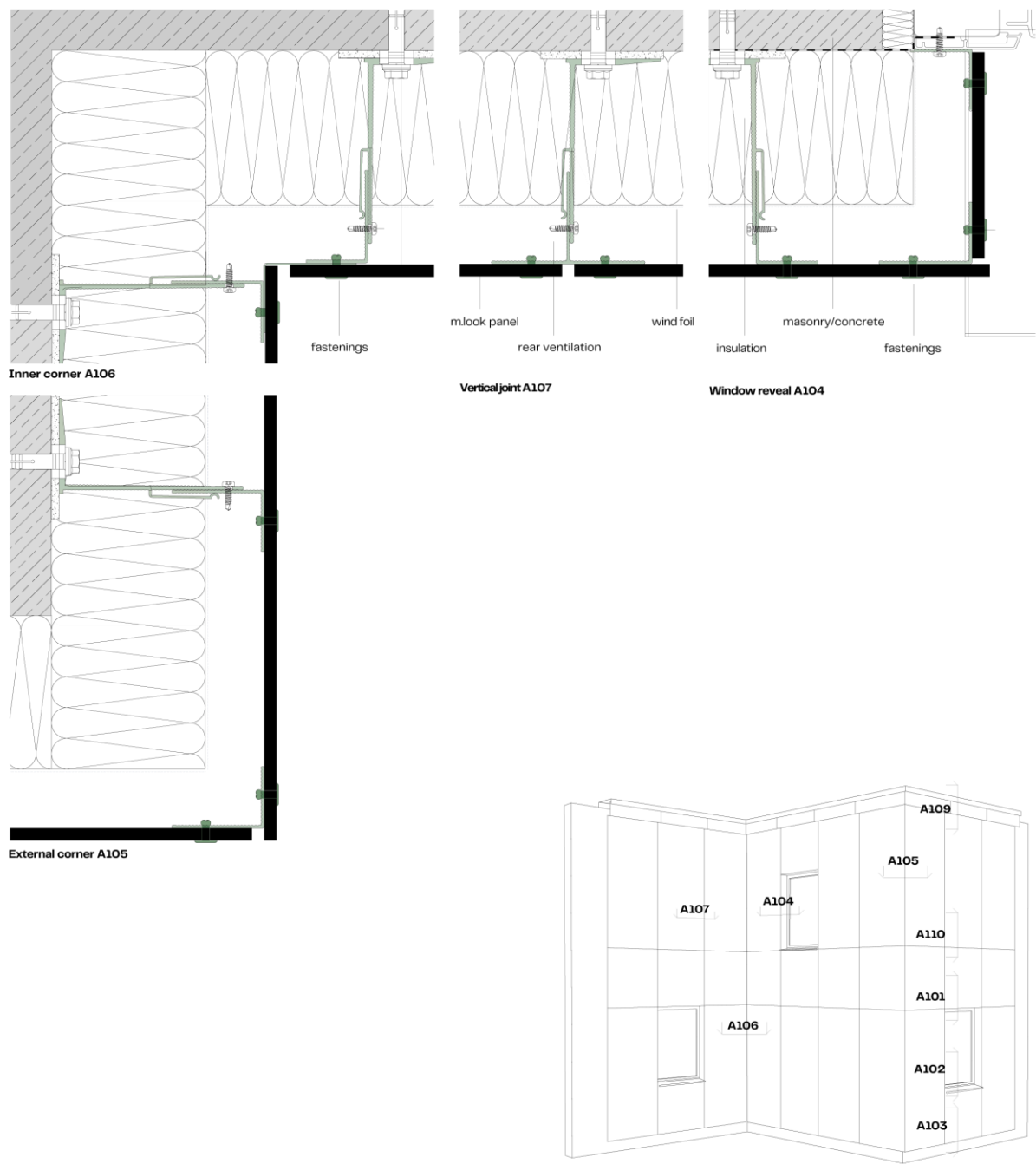
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD.

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

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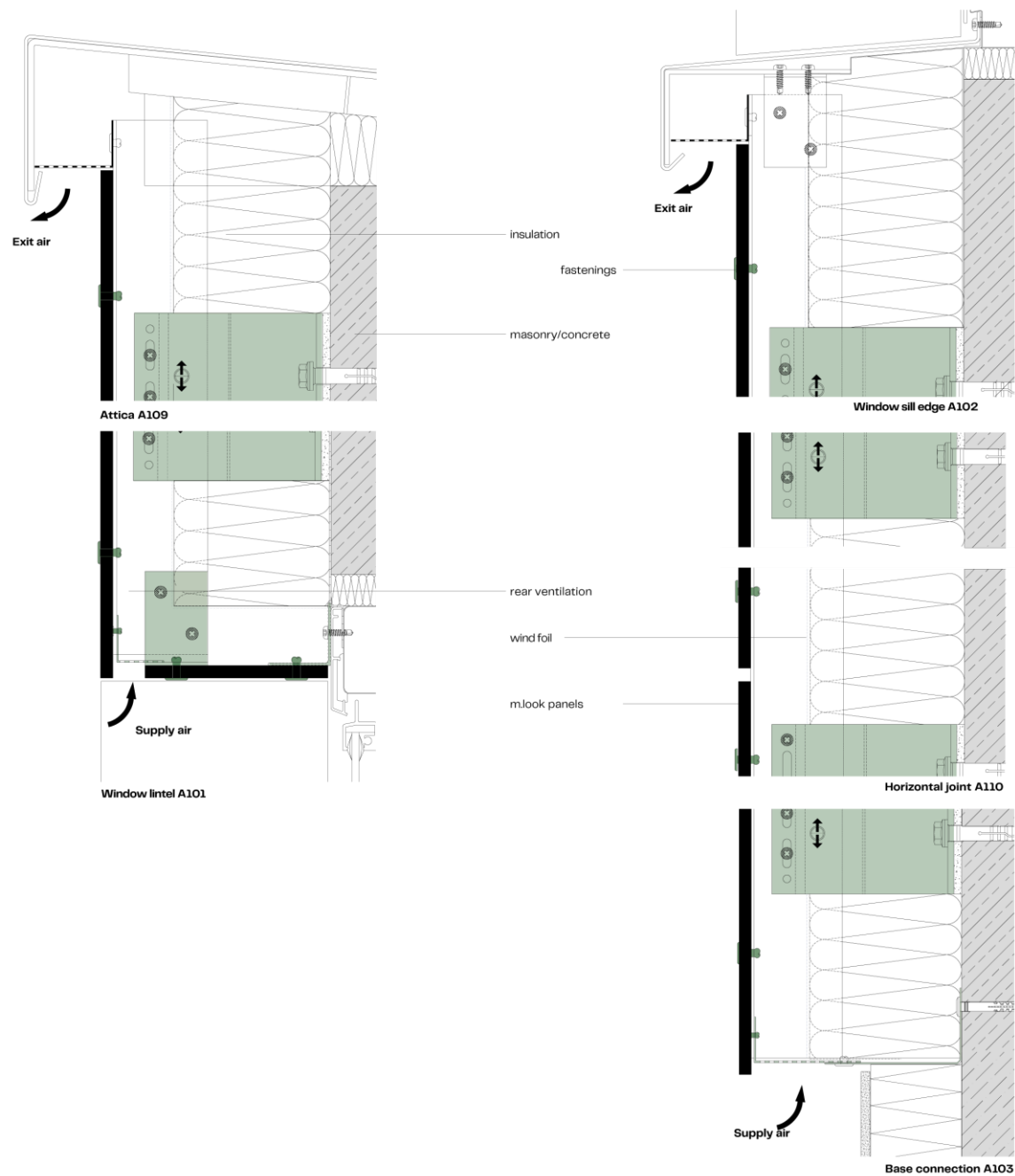
Thomas Bruun
Managing Director, ETA-Danmark



m.look

Annex A2

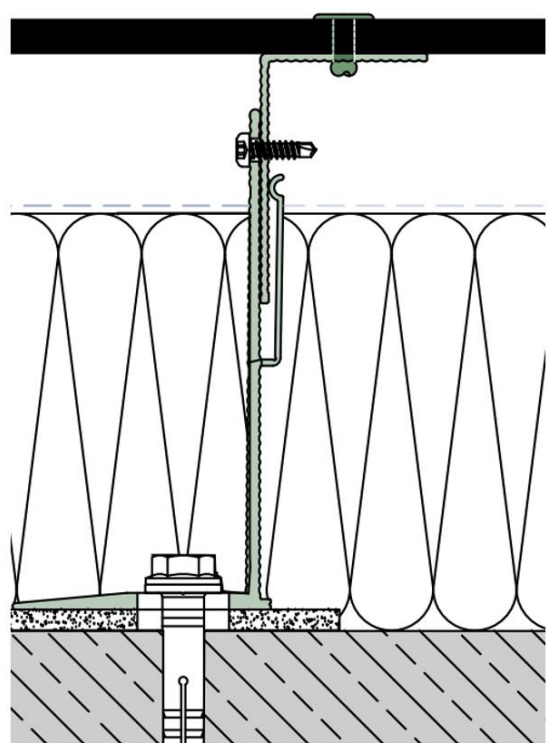
Construction details horizontal sections, Alu-substructure riveted.



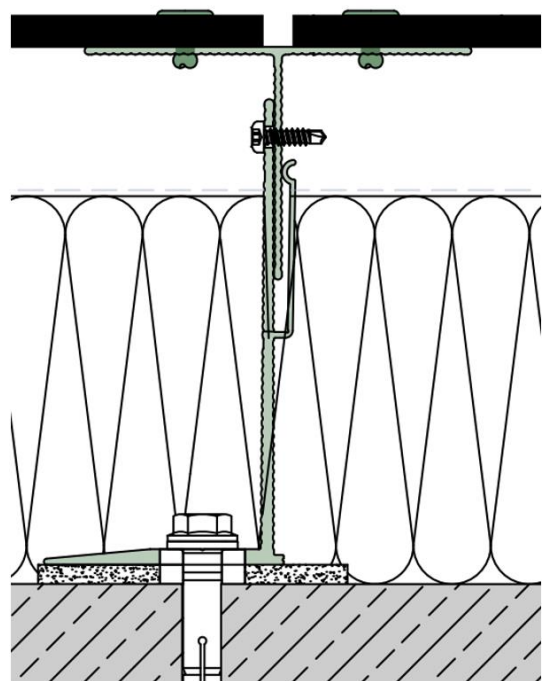
m.look

Construction details vertical sections, Alu-substructure riveted.

Annex A3



L-Profile
Alloy Substructure (e.g. EN AW 6063 T66)
Thickness: $\geq 2\text{mm}$



T-Profile
Alloy Substructure (e.g. EN AW 6063 T66)
Thickness: $\geq 2\text{mm}$

m.look	Annex B
Resistance of profiles	