



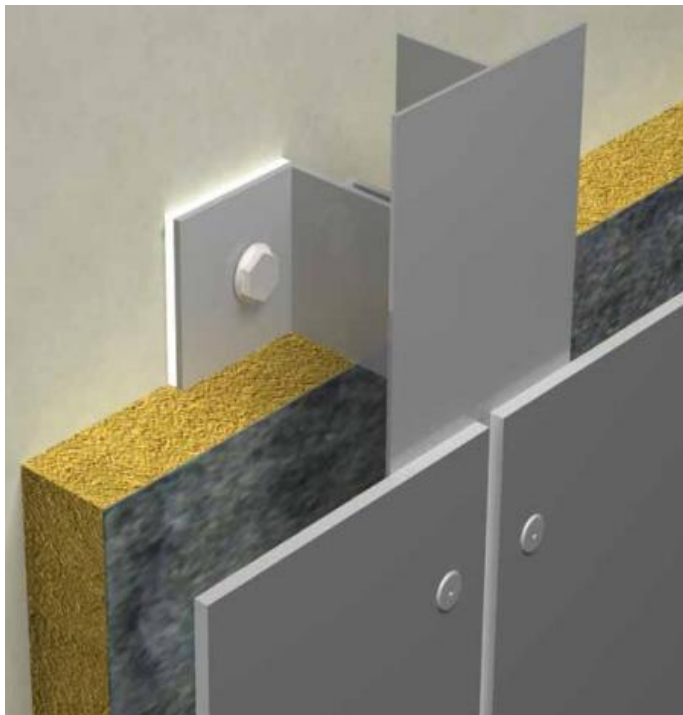
Certificate for the WinMark – Performance of Curtain Walling and Rainscreen Cladding

Section 1 – Certificate Details:



Customer Name:	FunderMax GmbH	Certification Body:	Wintech Engineering Limited
Customer Address:	Klagenfurter Straße 87-89 9300 St. Veit/Glan Austria	Certification Body Address:	Halesfield 2 Telford Shropshire TF7 4QH
WinMark Scheme:	Performance of Curtain Walling and Rainscreen Cladding	Certificate Number:	A10114
Date of Certification Commencement:	29 th September 2019	Date of Certification Expiry:	28 th September 2022
Certificate Compiled by:	Mark Swanborough Certification Leader	Certificate Approved by:	Michael Wass Technical Manager
Signed:		Signed:	

Section 2 – Product covered by this Certificate:



System Name	System Type
m.look cladding system	Non Combustible High Pressure Laminate Rainscreen Cladding system
This Certification Covers <ul style="list-style-type: none"> - A detailed overview of the certified product - An initial assessment of the certified company's factory production control system. - A review of the products documentation to help demonstrate compliance with the applicable requirements of the NHBC standard 2018 chapter 6.9. - An assessment of the certified products contribution to any key requirements of the building regulations. - An overview of the certified companies product installation requirements and procedures. - An overview of all supporting test documentation used for the product evaluation. - Ongoing surveillance of the certified company's factory production control system and procedures. - The conditions under which this product certification is valid. 	

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Section 1 – Product Specification and full description of the certified product

Product Description

The m.look panel is an architectural facade panel manufactured from a heavy-duty reinforced glass fibre, paper mineral material; it is a highly weather resistant surface and features a non-combustible core. The m.look panels are installed on the Aluminium Alloy Nvelope NV1 System.

Product details

Full product name:	m.look
Product type:	Rainscreen cladding Panel
Product description:	Non Combustible High Pressure Laminate Panels Cladding system
Company name:	FunderMax Gmbh
Manufactured by:	FunderMax Gmbh IZ-NÖ-Süd Straße 3 2355 Wiener Neudorf Österreich

Support Framing and bracketry

Type:	Nvelope NV1 System
Material:	Aluminium Alloy
Vertical rail Ref:	T rail 02/T60-100-2.2-4850 – 60 x 100 x 2.2mm L rail 02/L60-40-2.2-4850 – 60 x 40 x 2.2 mm
Horizontal rail Ref:	Pressed Aluminium Top Hat 125 x 25 mm x 3 mm
Fixing method (rail to backing wall):	Ejot Stainless Steel Fixing Screws
Fixing Ref:	EJOT – JT3-FR6-5.5 x 25 mm.
Fixing method (rail to rail):	Wall Bracket to Top Hat 2no 6.3 x 3 8 mm TEK Screws Wall Bracket to Rail 2no 5.5 x 20 mm TEK Screws
Fixing Ref:	6.3x38 Bi-Met Fastener with 16 mm Washer (SS) 5.5x20 Self Drive TEK Screw (SS)
Max Span between vertical rails:	600 mm
Max Span between horizontal rails:	816 mm
Brackets ref:	Nvelope NV1 01/VB060S-6.5 – 60 mm Vertical Bracket Single 6.5mm Fix Hole + Isolator.

Panels/tiles

Material:	m.look
Material ref (source, spec):	Non Combustible High Pressure Laminate Panels
Finish:	NT
Thickness:	7 mm
Reinforcing:	Fibre Glass
Max height of panel:	3660 mm
Max width of panel:	1660 mm
Max size of panel by area (m2):	6.08 m2
Fixing method:	Aluminium Rivet
Bracket/clip ref:	Not applicable
Further info	See figure 1.0

Interface Details (curtain wall to window inserts)

Window interface detail:	Sealed with EPDM Gasket and sealant/Compriband. Outer face sealed with Wraptite tape with externally applied Sika silicone seal. Interior sealed with Sika silicone seal and expanding type foam tape combined with EPDM sealant.
Door interface detail:	Not applicable

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Backing Wall

Structural support type:	SFS or Concrete
Insulation type:	Site specific
Insulation thickness:	Site specific
Airtight membrane:	Proctors Wraptite Self Adhesive Membrane
Watertight membrane:	Proctors Wraptite Self Adhesive Membrane
Particle board detail:	Cembrit 9mm Thick Windstopper Extreme Cement Particle Board
Sealants and tapes:	10mm Wraptite Tape & Cembrit 50mm Windstopper Tape
Fixings ref:	Metsec Assembly - Shallow Head Steel TEK Screw 5.5mm x 25mm Cembrit Board to Metsec - Wafer CSK Ribbed Head Wing Tipped Screw 4.8mm x 38mm

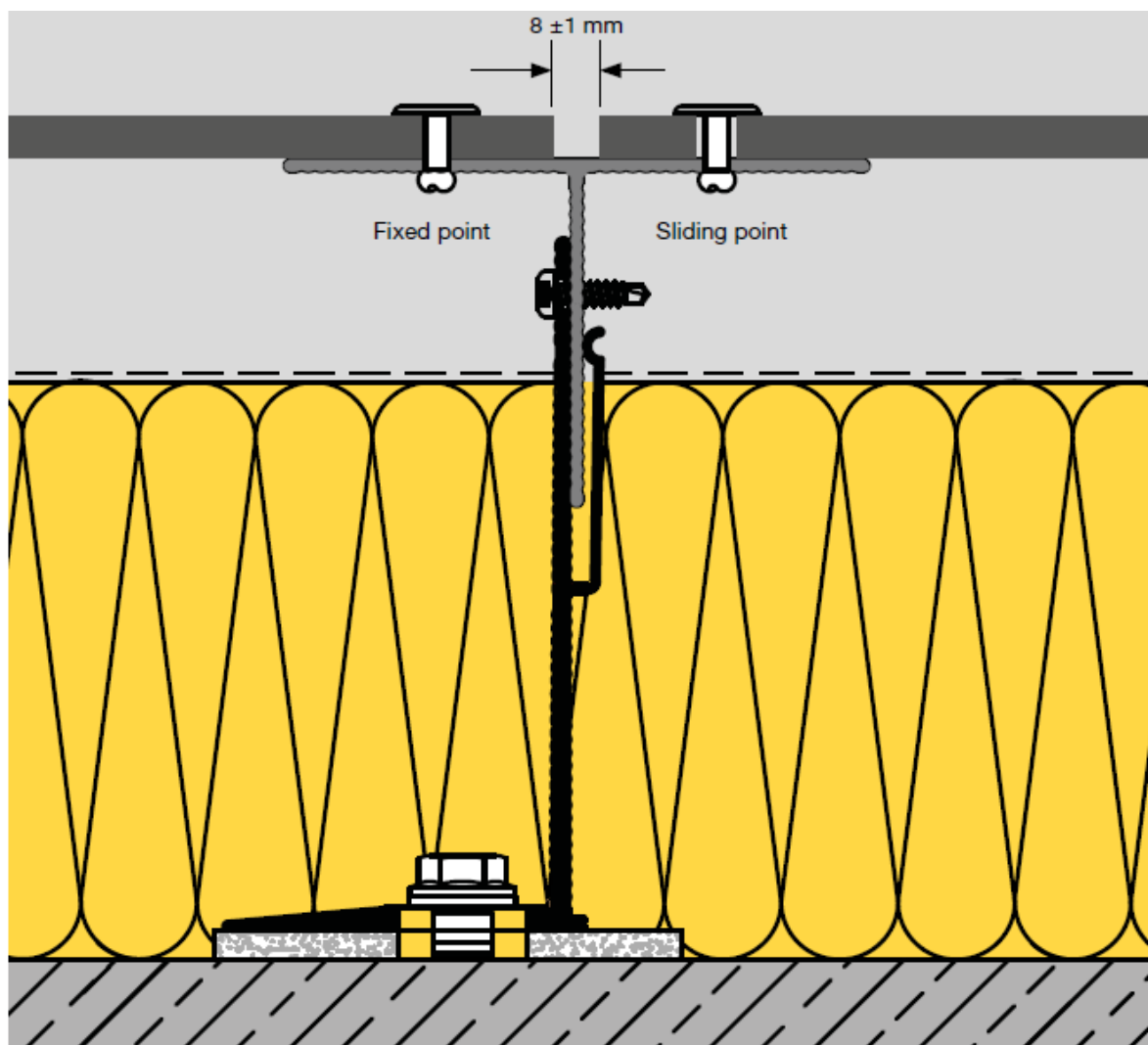
Drainage

Drainage type (pressure equalised etc.):	Head & Cill of Rig – Continuous 10mm Wide Gap
Drainage specification and weep holes etc.	Window to Window Cill – 2 no 80mm x 5mm Gaps

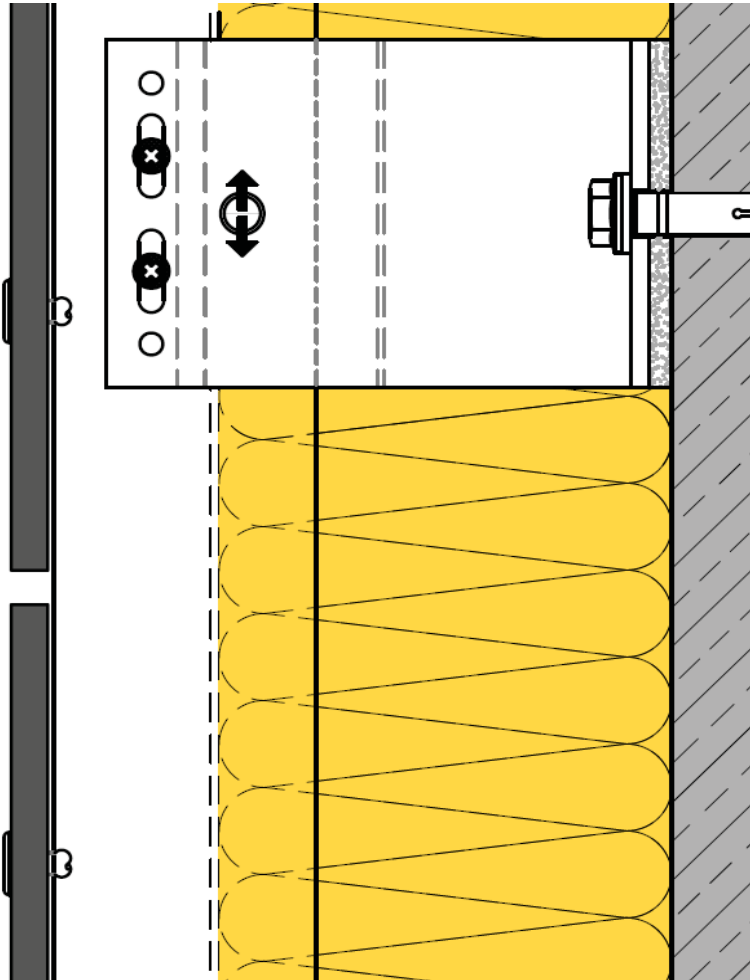
Additional brackets & Fixings Ref:

Ref	Galvanised Steel Support for Cross Beam Infill
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Figure 1.0 – Vertical and Horizontal Panel Joints



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Section 2 – Factory Production Control

The m.look cladding panels are manufactured at IZ-NÖ-Süd Straße 3 2355 Wiener Neudorf in Austria. The support frame, fixings and other materials are externally sourced from the companies approved supplier chain. An initial factory production control audit has been carried out at the certified products manufacturing site to assess the effectiveness of the following:

- Contract review – enquiries, quotations and orders
- Production planning and organisation
- Control of purchasing, including supplier approvals
- Control and storage of incoming materials and components
- Control of documentation related to the production, quality control/inspection, packaging and despatch
- Identification and traceability of certified products
- Ongoing production inspection, testing and records thereof
- Maintenance of production equipment
- Training Records of personnel
- Internal audit reports including non-conformances and corrective actions
- Customer complaint procedures
- Installation guide and processes
- Non-conforming products
- Labelling of products

Wintech witnessed the production processes of m.look panels and it can be confirmed that FunderMax GmbH procedures and controls were carried out as specified/documented and were in line with the WinMark certification scheme requirements. The manufacturing site will be subjected to annual audits to ensure ongoing compliance and effectiveness.

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Section 3 – Design documentation review of the certified product

A review of the certified products documentation was conducted in order to help demonstrate compliance with the appropriate sections of the NHBC Standard requirements section 6.9. At least the following requirements were evaluated in the review and were found to show evidence that complies.

- 3.1 Loads and movements
The m.look Cladding System, including brackets and fixings, allow movement without causing damage or deformation, and calculations carried out by structural engineers to demonstrate that loads are safely transferred to the building. Recommended fastening spaces are based on calculations in accordance to Eurocode EN 1991-1-4.
- 3.2 Support and Fixings
The m.look Cladding System has demonstrated that it can be securely fixed with suitably durable fixings to ensure adequate in-service performance. A TN76 impact test has been carried out on this system by a UKAS accredited laboratory – see section 6 for further details.
- 3.3 Durability
The product provides satisfactory durability (subject to routine inspection and maintenance). The system has been designed to avoid the need for disproportionate work when repairing or replacing individual components. Corrosion resistant fixings are used and bimetallic corrosion has been considered. Test data has been supplied to demonstrated compliance to EN 438-7 4.13.
- 3.4 Interfaces
The m.look Cladding System has suitable interfaces and resists the penetration of water and wind, and has designed to be weather resistant. A CWCT Section 9 hose test was conducted on a window interface installed in the system.
- 3.5 Insulation
Insulation is to be supplied by others, FunderMax can supply further details on the appropriate location of insulation.
- 3.6 Damp proofing and vapour control
The m.look Cladding System, including damp proofing materials and Tyvek® FireCurb® Membrane is designed to adequately resist the passage of water into a building and allows water vapour to pass outwards. Cavity trays are fitted at the base of the system and above any openings.
- 3.7 Electrical continuity and earth bonding
The m.look Cladding System operation and maintenance guide specifies electrical continuity and earth bonding is to be managed by separate contactors onsite during installation.
- 3.8 Maintenance
The design allows for appropriate access arrangements for the purposes of cleaning, inspection, maintenance and repair. The operation and maintenance guide m.look Technique supplied with the m.look panels provides further details.
- 3.10 Ventilation screens
Any ventilation openings are protected from the entry of birds and animals, A 304 grade steel or aluminium mesh is to be specified for use when required.
- 3.11 Handling and storage
An onsite assessment of the manufacturer confirmed that materials, products and systems are protected and stored in a satisfactory manner to prevent damage, distortion, uneven weathering and any degradation. The safe handling of panels is detailed further in the m.look product guide m.look Technique.
- 3.12 Acoustic performance
The system has been designed to consider the passage of airborne and impact sound within the building. Please refer to the m.look Technique for more details

- 3.13 Weather resistance
The m.look Cladding System has been designed to resist the passage of water to inside the building. A CWCT Sequence B test has been carried out on this system by a UKAS accredited laboratory – see section 6 tests 5 and 6 for further details.
- 3.14 Thermal bridging and condensation
The m.look Cladding System has been designed so that thermal bridging is considered and managed effectively. Please refer to the m.look Technique for more details
- 3.15 Air infiltration
The cladding system has air barriers and vapour barriers drawings can be provided by FunderMax GmbH to support this.
- 3.16 Opening doors and lights
Openable windows are installed so that they fit neatly and have minimal gaps to ensure effective weatherproofing of the system is maintained, detailed drawings created by FunderMax GmbH are available on request.

Section 4 – Comments on the certified products contribution to The Building Regulations

A top level review of the key related requirements from The Building Regulations 2010 (England and Wales) was conducted based on the information declared by FunderMax GmbH and the data provided for the documentation review. The following comments have been made on whether the certified product can contribute to the Building Regulations requirements.

The Building Regulations 2010 (England and Wales)

Requirement	Comment/s
A.1 Loading	The Tolerance & Movement Report provided gives confidence that this regulation is contributed towards by the product certified.
B2(1) Internal fire spread (linings) and B4 (1) External fire spread	Panels were tested in accordance with EN 13501-1 and graded A2-s1, d0. The Nvelope NV1 aluminium brackets, rails, and associated fixings are non-combustible. This gives confidence that this regulation is contributed towards by the product certified.
C2 (B) Resistance to moisture	The CWCT Report provided gives confidence that this regulation is contributed towards by the product certified.
7. Materials and workmanship	The evidence of method statements and staff training provided gives confidence that this regulation is contributed towards by the product certified.

Section 5 – Product installation

General

This product must be installed in accordance with the FunderMax GmbH recommendations and the requirements of this certificate. FunderMax GmbH have specified that product Installers can be trained and approved by them directly. All trained and approved installers will be issued with an appropriate in house certificates/training evidence.

Product delivery

The product is delivered to the UK banded on wooden pallets transported in shipping containers, with heavy-duty packaging. Each delivery is labelled with details including; order number, location, product name, type, size, quantity and weight.

Site survey

FunderMax GmbH have specified that prior to installation of the m.look Cladding System; a pre-installation survey of the property has to be carried out by the installer to determine whether the site is suitable for product installation and if any repairs are required to the building wall.

Section 6 - Supporting CWCT test documentation

General

Air and water testing of the m.look Cladding System was carried out in accordance with the CWCT Standard test sequence B. The Panels tested were of a similar size and configuration to those which will be provided by FunderMax GmbH. The product was installed on a SFS backing wall.

Testing carried out

CWCT Test Methods for Building Envelopes – Dec 2005; Sections 7, 9, 11, 12 & CWCT TN 76. The testing was conducted on the 18th September 2018 and completed on the 24th September 2018.

Test laboratory

Wintech Engineering Ltd, Telford, Shropshire TF1 4QH (UKAS 2223)

Results (reference report number R18508)

Test type	Peak Test Pressure	Result	Date of test	Classification
Test 1 – Water Penetration (Dynamic Aero Engine)	600 Pa	Pass	18.09.18	-
Test 2 – Water Penetration (Hose)	-	Pass	18.09.18	-
Test 3 – Wind Resistance (Serviceability)	2400 Pa	Pass	18.09.18	-
Test 4 – Wind Resistance (Safety)	3600 Pa	Pass	18.09.18	-
Test 5 – Impact Resistance (Retention of performance of exterior wall surfaces) - External	-	Class 1	24.09.18	CAT B
Test 6 – Impact Resistance (Safety to persons) - External	-	Neg Risk	24.09.18	CAT B

Conclusion

A review of the test report demonstrated that the test sample successfully passed all of the above CWCT test requirements. The test sample was supplied and erected on to the test laboratory's test chamber by FunderMax GmbH. The dismantling was conducted on 5th October 2018 by representatives of FunderMax GmbH and was witnessed in full by Wintech Engineering Ltd testing personnel. The report states that there was no water evident in the system in parts designed not to be wetted following the system dismantle. For further details, please request a copy of test report R18508.

Section 7 – Certification conditions

This WinMark Certificate:

1. Covers the product/system that is named and described on the front page only.
2. Should be read in conjunction with the WinMark – Performance of Curtain Walling and Rainscreen Cladding certification scheme document.
3. Is granted to the company listed front page only.
4. Is valid within the UK only.
5. Will remain valid for the period listed on the front page provided that the product and the manufacturer comply with the WinMark requirements.

Please check the validity and issue level of this certificate with Wintech Engineering Ltd, or check the list of certified products online via www.wintechtesting.com. Wintech is not responsible for any complaints, legal issues or liability regarding the incorrect manufacture or installation of any WinMark certified products. This is not fire certification, evidence of fire performance should be obtained directly from the company certified. For more details the WinMark certification terms and conditions and the WinMark Scheme document should be read in conjunction with this certificate.



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