

I LEGAL BASES AND GENERAL CONDITIONS

- 1 This NMÉ has been issued by the ÉMI Non-profit Ltd. for Quality Control and Innovation in Building based on
 - Government Decree No. 275/2013 (VII. 16.) on the detailed rules relating to the planning and installation of construction products into construction works and the verification of performance during this process,
 - the designation of the Hungarian Trade Licensing Office (MKEH-128/22/2013/FHÁ), as well as
 - the data detailed in Performance Assessment Report No. A-90/2021 dated on 21 January 2022.
- 2 The holder of the NMÉ is the manufacturer of the construction product.
- 3 The holder of the NMÉ is not allowed to assign the NMÉ to third party. The NMÉ is valid exclusively for products manufactured in the indicated production plants.
- 4 The manufacturer of the product or their authorized representative shall notify if the important characteristics of the product, the quality of its raw materials or the production circumstances change and shall apply for the revision and, if necessary, for the amendment of NMÉ.
- 5 The ÉMI Non-profit Ltd. withdraws the NMÉ for the product based on the request of the manufacturer or their authorized representative, based on the decision of the market surveillance authority or at the end of co-existence period, as stipulated in the Regulation No. 305/2011/EU Article 17 (5) of the European Parliament and Council, of the harmonized standard covering the construction product subject of this NMÉ.
- 6 ÉMI Non-profit Ltd. shall issue the NMÉ in Hungarian, and on subsequent request of the manufacturer or their authorized representative for an additional fee in English, German or French or maybe in other languages. The legal basis is the Hungarian version of the NMÉ.
- 7 The NMÉ may only be copied or published by means of other data medium in its entirety. Extracts are only allowed on the prior written approval of ÉMI Non-profit Ltd. The fact of publishing extracts shall be indicated. Text and figures of advertising materials cannot be contrary to the content of the National Technical Assessment and cannot give rise to misunderstanding.
- 8 The NMÉ will not replace other permits and certificates (e.g., environment protection and property protection, building authorities' permits) necessary for distribution, installation and use of the product specified by separate provision of law and the documents relating to the constancy of product performance (e.g., product certificate, factory production control certificate, declaration of performance).
- 9 The declaration of performance issued based on the NMÉ shall not entitle either the manufacturer or their authorized representative to use CE conformity marking on the product or on its packaging or accompanying documents.
- 10 The NMÉ does not state the fitness for purpose of the product for the particular use. It provides only performance values for essential characteristic as a basis for the declaration of performance. Based on the performances specified in the declaration of performance issued by the manufacturer the product can be installed into construction works in which it complies with the expected technical performance.

II SPECIFIC CONDITIONS OF THE NATIONAL TECHNICAL ASSESSMENT

1 DATA

1.1 Manufacturing site of the product

Nesco Oy
16300 Orimattila, Teollisuustie 8, Finland

1.2 Description of the product

Product code, name: RAULI mounting system for solar panels

The system consists of the following components:

ALL BLACK HOLDERS

21068 universal roof hook
21076 All Black T45-70 high steel profile
21069 strong roof hook

21136 RAIL, 2.21 m rail

NORDIC PRO HOLDERS

21072 Nordic Pro universal roof hook
21077 Nordic Pro T45-70 high steel profile
21073 strong Nordic roof hook
21123 strong Nordic roof hook

ADDITIONAL ELEMENTS

21070 folded roof hook
21074 added 1 L-profile
21075 added 2 hooks
21086 middle clamp 32-40 mm Black
21134 end clamp 30 mm Black

WALL MOUNTING

21093 upper rail 3 meter
21094 lower rail 3 meter
21095 end profile
21097 intermediate clamp

Dimensions of the product:

Drawing and dimensions of the main components of RAULI mounting system for solar panels are shown in Annex 1.

Raw materials:

DX51D+Z275, DX51D+Z350	MSZ EN 10346:2015
460LAD+Z350	MSZ EN 10346:2015
1.4307 stainless steel	MSZ EN 10088-2:2015

1.3 Description of the intended use of the product

The RAULI system is used for mounting solar panels on roofs and walls. Roofs can be sheet metal, profiled steel sheet, or bitumen sheet roofs. Walls can be made of wood, profiled steel sheet, or sandwich (metal) construction.

2 ESSENTIAL CHARACTERISTICS, PERFORMANCE AND ASSESSMENT METHODS

2.1 Mechanical resistance and stability

--

2.2 Safety in case of fire

Essential characteristics	Performance	Assessment method
Product code: RAULI mounting system for solar panels (without organic coatings)		
Reaction to fire class	A1	MSZ EN 13501-1:2019

2.3 Hygiene, health, and the environment

--

2.4 Safety and accessibility in use

Essential characteristics	Performance	Assessment method
Product code: RAULI mounting system for solar panels		
Vertical load capacity (against snow load) (perpendicular to roof plane)*	2.75 kN/m ² characteristic value	MSZ EN 1991-1-3:2016, MSZ EN 1991-1-4:2007, specific method **
Resistance to wind suction (perpendicular to roof plane)*	field category II, max. 3 m, field category III, max. 10 m or field category IV, max. 22 m height above ground level	
Resistance to slipping (parallel to roof plane)	120 kN/1 piece of roof hooks characteristic value	

* If 4 roof hooks fix a solar panel with a surface area of up to 1.7 m²

** The test procedure describing the specific method is documented in the test report deposited at ÉMI Non-profit Ltd.

2.5 Protection against noise

--

2.6 Energy economy and heat retention

--

2.7 Sustainable use of natural resources

Essential characteristics	Performance	Assessment method
Product code: RAULI mounting system for solar panels		
Durability - corrosion protection - zinc-coating - stainless steel	Z275, Z350 1.4307	MSZ EN 10346:2015 MSZ EN 10088-2:2015

3 REQUIREMENTS FOR THE ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE

3.1 System for the assessment and verification of constancy of performance

Based on the Commission Decision 98/436/EC and according to Annex V of the European Parliament and Council Regulation No. 305/2011/EU:

System (3).

3.2 Tasks of the manufacturer

3.2.1 Factory production control (FPC)

The manufacturer shall develop, document, and operate an FPC system that ensures that the performance of the products to be installed meets continuously the values specified in the present NMÉ in a verifiable way.

If the manufacturer's quality management system complies with standard EN ISO 9001 and their system is complemented with the requirements in relation to factory production control stipulated in this NMÉ, this factory production control system can be considered to have met the requirements.

Regarding the product the manufacturer shall develop, operate, and control a factory production control system, which ensures the constancy of performance of the product.

The factory production control system shall include:

- the tasks and their responsible persons required in the procedure,
- the rules regarding the review of the qualifications and training of personnel, production and testing equipment, raw materials, supplied products, manufacturing process, handling of emerging non-compliances and complaints and the review of the factory production control system by the manufacturer,
- evaluation of the results of tests made in the framework of factory production control by comparing with the results of the performance assessment,
- tests to be carried out in the scope of the factory production control, according to the control plan of the factory control; requirements concerning the frequency and test methods in accordance with the table below.

Product characteristics tested	Test method	Minimum frequency of tests
Mechanical properties of raw materials	checking the supplier's technical certificates for raw materials	per shipment
Thickness of the zinc coating	checking the supplier's technical certificates for raw materials	per shipment
Dimensions, dimensional accuracy	measurement with a calibrated measuring instrument	per item type per day

3.2.2 Issuing the declaration of performance

The declaration to be issued by the manufacturer must contain the following data detailed in points:

- the identification number of the declaration,
- the individual identification code of the product type,
- the intended use(s) of the construction product specified by the manufacturer,
- the name, the registered trade name, and the registered trademark as well as the mailing address of the manufacturer,
- optionally the name and mailing address of the authorized representative,
- system or systems in relation to the assessment and verification of constancy of performance of the construction products,
- the name of the organization issuing the NMÉ and the identification number of the NMÉ,
- the performance values given in section 2,
- the following sentences:
 - The performance of the product specified in section 1.2 of NMÉ No A-90/2021 complies with the performance specified in the declaration.
 - Exclusively the manufacturer (or the authorized representative) is responsible for issuing this declaration of performance.
- person signing in the name and on behalf of the manufacturer (or the authorized representative) (name/position),
- place/date/signature.

3.3 Tasks of the designated testing laboratory

3.3.1 Assessment of the performance of the product

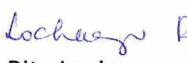
This NMÉ can be considered as the assessment of the performance of the product in accordance with point 1.6 in Annex V of the European Parliament and Council Regulation No. 305/2011/EU. Therefore, the designated testing laboratory shall not undertake this task.

4 ANNEXES

4.1 Annex 1: Drawing and dimensions of the main components of RAULI mounting system for solar panels (3 pages)

The NMÉ prepared by:

Professionally checked and approved by:


Rita Lochmayer
 technical assessor engineer




Péter Tóth
 product manager

NMÉ: A-90/2021

Project number: É1-M290X-23914-2021
 DK-M999X-24472-2022