



**® TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague, SOE**

Akreditované laboratoře, Autorizovaná osoba, Oznámený subjekt, Subjekt pro technické posuzování, Certifikační orgány, Inspekční orgán / Accredited Laboratories, Authorized Body, Notified Body, Technical Assessment Body, Certification Bodies, Inspection Body • Prosecká 811/76a, Prosek, 190 00 Praha 9, Czech Republic

Notified Body 1020

**CERTIFICATE
OF CONSTANCY OF PERFORMANCE**

No. 1020 – CPR – 090-065488

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product:

**Microprismatic retro-reflective sheetings
YSL 9600 HIP Reflective Sheeting**

Color: white; yellow; red; green; blue; orange; brown

placed on the market under the name or trade mark of

YESHILI NEW MATERIALS CO., LTD.

Identification No.: 91331002148267916F

Address: No. 198 Huiji Road, Taizhou Bay New District, Taizhou City, Zhejiang Province/
P.R. China

and produced in the manufacturing plant:

YESHILI NEW MATERIALS CO., LTD.

Identification No.: 91331002148267916F

Address: No. 198 Huiji Road, Taizhou Bay New District, Taizhou City, Zhejiang Province/
P.R. China

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in the

ETA 24/1225, issued on 06/02/2025

and

EAD 120001-01-0106

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the

constancy of performance of the construction product.

This certificate was first issued on 28th March 2025 and will remain valid as long as neither the ETA, the EAD, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.

The stamp of the Notified Body 1020

Prague, 28th March 2025




Martin Pešek
Deputy manager of the Notified Body



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Notified Body 1020
Branch 0900 – Technical Engineering Services

REPORT

on the outcome of the assessment and verification of constancy of performance of the product, system 1

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council (the Construction Products Regulation or CPR), Annex V replaced by the Commission Delegated Regulation (EU) No 568/2014

No. 090-065487

Trade name:

Microprismatic retro-reflective sheetings
YSL 9600 HIP Reflective Sheeting

Color: white; yellow; red; green; blue; orange; brown

Manufacturer:

YESHILI NEW MATERIALS CO., LTD.

Identification No.: 91331002148267916F
Address: No. 198 Huiji Road, Taizhou Bay New District, Taizhou City, Zhejiang Province/
P.R. China
Manufacturing plant: **YESHILI NEW MATERIALS CO., LTD.**
Address: No. 198 Huiji Road, Taizhou Bay New District, Taizhou City, Zhejiang Province/
P.R. China
Order: Z090240312

Number of report pages including title-page: 5

Number of Annexes: 0

Stamp of the Notified Body 1020

Prague, 28th March 2025



Roman Ondruška
Head Assessor

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1. General

1.1 Information about the manufacturer

- Manufacturer: **YESHILI NEW MATERIALS CO., LTD.**
No. 198 Huiji Road, Taizhou Bay New District, Taizhou City,
Zhejiang Province/ P.R. China
- Manufacturing plant: **YESHILI NEW MATERIALS CO., LTD.**
No. 198 Huiji Road, Taizhou Bay New District, Taizhou City,
Zhejiang Province/ P.R. China

1.2 Information about the product and its intended use

The construction product is used to manufacture sign faces for traffic signs according to EN 12899-1. The intended use includes for example:

- retro-reflective signs,
- road delineators with retro-reflective devices,
- variable message signs.

Working life of the microprismatic retro-reflective sheeting is 10 years but the real working life may be, in normal use conditions, considerably longer without major degradation affecting the basic requirements for works.

YSL 9600 HIP Reflective Sheeting is the microprismatic retro-reflective sheeting consist of microprismatic retro-reflective elements formed in a transparent synthetic resin, sealed and backed with a pressure sensitive adhesive to form a durable bond to the sign substrates. The sheeting has a smooth surface and regular structure.

The sheeting is provided with a permanent solvent polyacrylate adhesive, which can connect the sheeting with a substrate.

The products supplied as the complete set of microprismatic retro-reflective sheeting are shown in the following list:

Microprismatic retro-reflective sheeting:

Trade names:

- YSL 9600 HIP Reflective Sheeting – white
- YSL 9600 HIP Reflective Sheeting – yellow
- YSL 9600 HIP Reflective Sheeting – red
- YSL 9600 HIP Reflective Sheeting – green
- YSL 9600 HIP Reflective Sheeting – blue
- YSL 9600 HIP Reflective Sheeting – orange
- YSL 9600 HIP Reflective Sheeting – brown

European Technical Assessment ETA 24/1225 was issued for **YSL 9600 HIP Reflective Sheeting – white**, **YSL 9600 HIP Reflective Sheeting – yellow**, **YSL 9600 HIP Reflective Sheeting – red**, **YSL 9600 HIP Reflective Sheeting – green**, **YSL 9600 HIP Reflective Sheeting – blue**, **YSL 9600 HIP Reflective Sheeting – orange**, **YSL 9600 HIP Reflective Sheeting – brown** by Technical and Test Institute for Construction Prague on 06.02.2025.



1.3 List of documentations provided by the manufacturer to the assessment and verification of constancy of performance (AVCP)

- application for performance of activity of notified body – AVCP system 1
- Description of product and specification of its use in construction
- Certificate EN ISO 9001:2015
- Flow chart for production
- Inspection and test plan
- Inspection report
- Final product inspection report
- ETA 24/1225 and Evaluation Report issued on 06.02.2025

1.4 List of the other documentation used during the product AVCP

- None

1.5 Technical specification relating to the AVCP

- EAD 120001-01-0106 Microprismatic retro-reflective sheeting

1.6 Information about previous AVCP

The producer did not demonstrate any previous product certification.

2 Product Assessment

2.1 Technical requirements

The product was assessed under EAD 120001-01-0106 Microprismatic retro-reflective sheeting, with respect to the following monitored properties:

- Visibility Characteristics
- Durability

2.2 List of the Test Reports:

- Test Report No. 090-064347 from 29th November 2024, issued by TZÚS Praha, s.p., branch TIS.
- Test Report No. 090-064349 from 29th November 2024, issued by TZÚS Praha, s.p., branch TIS.
- Test Report No. 090-062570 from 29th November 2024, issued by TZÚS Praha, s.p., branch TIS.

2.3 Evaluation of the results of the product tests and assessment

Monitored property	Test Protocol	Test procedure	Test result	Required / declared level	Evaluation
1	2	3	4	5	6
Visibility Characteristics					
Daylight Chromaticity	2.2	EAD 120001-01-0106 cl. 2.2.1	Test Protocol No. 090-064347 No. 090-064349	R: conditions cl. 2.2.1 Chromaticity coordinates (x,y)	conforms
Luminance factor	2.2	EAD 120001-01-0106 cl. 2.2.1	Test Protocol No. 090-064347 No. 090-064349	R: conditions cl. 2.2.1 Luminance factor β (-)	conforms
Night-time colour	2.2	EAD 120001-01-0106 cl. 2.2.2	Test Protocol No. 090-064349	R: conditions cl. 2.2.2 Chromaticity coordinates (x,y)	conforms



Coefficient of retroreflection	2.2	EAD 120001-01-0106 cl. 2.2.3	Test Protocol No. 090-064349	R: conditions cl. 2.2.3 R _A (cd.lx ⁻¹ .m ⁻²)	conforms
Durability					
Impact resistance	2.2	EAD 120001-01-0106 cl. 2.2.4	Test Protocol No. 090-064347	R: conditions cl. 2.2.4 Fulfils EN 12899-1:2007: no cracking, no delamination from substrate material	conforms
Temperature resistance	2.2	EAD 120001-01-0106 cl. 2.2.5	Test Protocol No. 090-064349	R: conditions cl. 2.2.5 R _A (cd.lx ⁻¹ .m ⁻²)	conforms
Visibility after accelerated artificial weathering	2.2	EAD 120001-01-0106 cl. 2.2.6, 2.2.1, 2.2.3		NPD	
Visibility after natural weathering	2.2	EAD 120001-01-0106 cl. 2.2.6, 2.2.1, 2.2.3		NPD	
Adhesion	2.2	EAD 120001-01-0106 cl. 2.2.7	Test Protocol No. 090-062570	R: conditions cl. 2.2.7 Length of delamination (mm)	conforms

Evaluation conclusion: the product confirms to and complies with the declared purpose.

3 Factory Production Control Assessment

The product assessment was performed in the production plants of YESHILI NEW MATERIALS CO., LTD. on 19th February 2025.

3.1 Requirement of the technical specification regarding Factory Production Control:

Requirements are laid down in 120001-01-0106 Microprismatic retro-reflective sheetings.

3.2 Evaluation of the Factory Production Control assessment results:

- The technical documentation of the manufacturer YESHILI NEW MATERIALS CO., LTD. contains a description of the production management system in the internal document Technological Guideline for Microprismatic retro-reflective sheeting.
- The production management system complies with the technical documentation and ensures that the marketed products conform to the technical specifications, and is assessed as conforming

4 Conclusion

- The sample of product fulfils the requirements of the technical specification.
- The FPC is in accordance with the harmonised technical specification and ensures that the declared performances are achieved.
- Findings and conclusions mentioned in this Report are valid providing the conditions under which FPC assessment was carried out remain unchanged (e.g. technical regulations, technical specifications, production technology, incoming raw and manufacturing equipment).
- In compliance with provision of the CPR Art. 1.2, Annex V Surveillance Reports containing FPC assessment and evaluation have to be complementary to the technical documentation.



5 Annexes

The documents are not part of this Report and are kept by the author.

End of protocol

