



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Construction Prague, SOE
Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování, Certifikační orgán, Inspekční orgán / Accredited Testing Laboratory, Authorized Body, Notified Body, Technical Assessment Body, Certification Body, Inspection Body. Prosecká 811/76a, 190 00 Praha 9 - Prosek, Czech Republic

Notified Body 1020

CERTIFICATE OF CONSTANCY OF PERFORMANCE

No. 1020 – CPR – 090-041031

In compliance with Regulation (EU) No 305/2011 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:

Fixed, vertical road traffic signs

variant: Reflective Sheeting

XW 1800 Series High Intensity Grade (type III)

XW 7200 Series Engineering Grade (type I)

placed on the market under the name or trade mark of

Huangshan Xingwei Reflectorized Material Co., Ltd.

Identification No.: 341021559204565

Address: No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China

and produced in the manufacturing plant:

Huangshan Xingwei Reflectorized Material Co., Ltd.

Identification No.: 341021559204565

Address: No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China

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

EN 12899-1:2007

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

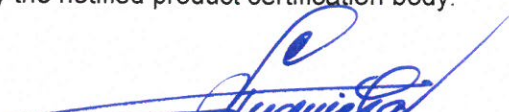
constancy of performance of the construction product.

This certificate was first issued on 5 April and will remain valid as long as neither the harmonised standard, 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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.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, 5 April 2018




Ing. Jiří Studnička
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

according to the Regulation (EU) 305/2011 of the European Parliament and of the Council of 9 March 2011
(the Construction Products Regulation or CPR), Art. 1.2 of the Annex V (system 1)

No. 090-041030

Trade name:

Fixed, vertical road traffic signs

variant: Reflective Sheeting

type: XW 7200 Series Engineering Grade (type I), XW 1800 Series High Intensity Grade (type III)

Manufacturer:

Huangshan Xingwei Reflectorized Material Co., Ltd.

Identification No.: 341021559204565
Address: No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China
Manufacturer: Huangshan Xingwei Reflectorized Material Co., Ltd.
Address: No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China
Production plant: Huangshan Xingwei Reflectorized Material Co., Ltd.
Address: No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China
Order: Z090180116

Number of report pages including title-page: 4

Number of Annexes: 0

Stamp of the Notified Body 1020

Prague, 5 April 2018



Roman Ondruška
Head Assessor

1. General

1.1 Information about the manufacturer

- **Manufacturer:** **Huangshan Xingwei Reflectorized Material Co., Ltd.**
No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China
- **Production plant:** **Huangshan Xingwei Reflectorized Material Co., Ltd.**
No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China

1.2 Information about the product and its intended use

Fixed vertical road traffic sign – on the basis of EN 12899-1, are designed for permanent installation on highways and roads, or on local roads or purpose communications. They are used to control and regulate traffic.

For the realization of active area of the sign is used reflective or non-reflective sheeting, which must meet the performance class and limits according to EN 12899-1:2007 Fixed vertical road traffic signs - Part 1: Fixed signs.

1. Reflective sheeting, Type I XW7200 Series Engineering Grade– coloured sheeting, model colour white, yellow, green, red and blue
2. Reflective sheeting, Type III XW1800 Series Hi Intensity Grade– coloured sheeting, model colour white, yellow, green, red and blue

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
- Product description and specification of its use in construction - Product reflective sheeting
- Certificate ISO 9001:2015
- Quality plan – inspection plan
- Calibration procedure
- Quality manual

1.4 List of the other documentation used during the product AVCP

- EN 12899-4:2007 Fixed, vertical road traffic signs - Part 4: Factory product control
- EN 12899-5:2007 Fixed, vertical road traffic signs - Part 5: Initial type testing

1.5 Technical specification relating to the AVCP (as amended)

- EN 12899-1:2007 Fixed, vertical road traffic signs - Part 1: Fixed signs

1.6 Information about previous AVCP

The producer did not demonstrate any previous product certification.



2 Product Assessment

2.1 Technical requirements

Product was assessed by EN 12899-1:2007 Fixed, vertical road traffic signs - Part 1: Fixed signs, the observed properties:

- Visual properties
- Daytime chromaticity and luminosity factor
- Reflective (factor reflective)
- Durability
- Resistance to impact
- Resistance to weather influence

1.2. List of test and assessment protocols:

- Test report No.141103-01Erl issued by CAICOAST – ITL Industrial Testing Laboratory, 683 Thornton Street San Leandro, CA 94577, USA on 24.11.2014
- Test report No.141103-02Erl issued by CAICOAST – ITL Industrial Testing Laboratory, 683 Thornton Street San Leandro, CA 94577, USA on 24.11.2014
- Test report No.141103-01Esupl issued by CAICOAST – ITL Industrial Testing Laboratory, 683 Thornton Street San Leandro, CA 94577, USA on 24.11.2014

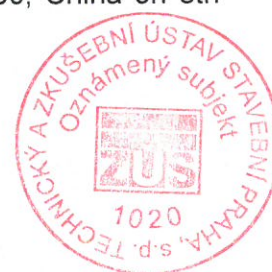
1.3. Evaluation of test and product assessment results

Monitored property	Test Protocol	Test procedure	Test result	Required/ declared level	Evaluation
1	2	3	4	5	6
Visual properties					
– Daytime chromaticity and luminosity factor	6.3 (Daytime color and luminance)	EN 12899-1:2007 4.1.1.3	Test report No. 141103-01Erl No. 141103-01Esupl No. 141103-02Erl	R: trichromatic coordinates and	conforms
– Reflective	6.2 (Coefficient of retroreflection)	EN 12899-1:2007 4.1.1.4	Test report No. 141103-01Erl No. 141103-01Esupl No. 141103-02Erl	R: reflective factor	conforms
Durability					
– Resistance to impact	6.10 (Impact resistance)	EN 12899-1:2007 4.1.2 EN ISO 6272	Test report No. 141103-01Erl No. 141103-01Esupl No. 141103-02Erl	R: no rift reflective sheeting or separation of the layers from base	conforms coloured sheeting
– Resistance to weather influence		EN 12899-1:2007 4.1.1.5		NPD	

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

3 Factory Production Control Assessment

Factory Production Control Audit was performed in the production plant Huangshan Xingwei Reflectorized Material Co., Ltd., No. 5, Jing Xing Road, Eco-Development Industrial Zone, She District, Huangshan City, An Hui Province, 245200, China on 8th March 2018



3.1 Requirement of the technical specification regarding Factory Production Control:

The requirements on the production managements system are stipulated in EN 12899-4:2007 Fixed, vertical road traffic signs - Part 4: Factory product control

3.2 Evaluation of the Factory Production Control assessment results:

- Technical documentation of the manufacturing plant Huangshan Xingwei Reflectorized Material Co., Ltd. contains the description of the production management system in the internal document.
- The production management system complies with the technical documentation and ensures that the marketed products conform to the technical specifications and is assessed as compliant.

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 Protocol and are kept by the author.

Prepared by: Roman Ondruška

