



Certificate of constancy of performance

0402 – CPR – SC0777-14

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

Fixed, vertical road traffic signs – Part 1: Fixed signs

**Complete assemblies of fixed vertical road traffic signs
as specified in appendix to this certificate, for use in circulation areas**

Product name: PPV

produced by or for

Plast & Plåt Vägmärken AB

Box 11, 428 21 KÅLLERED

Sweden

and produced in the manufacturing plant

same as above

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 performances set out in this certificate are applied and that

**the construction product fulfils the prescribed requirements for these performances,
see Appendix.**

This certificate was first issued on 2014-12-05 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared essential characteristics, do not change, and the construction product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

2014-12-05

**SP Technical Research Institute of Sweden
Certification, Notified Body No. 0402**

Lennart Aronsson
Product Certification Manager

Susanne Hansson
Certification officer

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CLASSIFICATION according to EN 12899-1:2007, Table ZA.6

Resistance to horizontal loads (design resistance supports)	Value for dimension of pipe support Ø 60.3 x 2.24 mm steel S235 JRH
Maximum bending moment, M_u [kNm]	1.28
Stiffness for bending, EI [kNm ²]	36.2
Maximum moment for torsion, T_u [kNm]	1.48
Stiffness for Torsion, GI_t [kNm ²]	27.9

* These values do not include the partial material factor $\gamma_m=1.05$ for steel

Performance under vehicle impact (passive safety) according to EN 12767:2007 Dimensions for pipe support	Value/description/class
Diameter $\varnothing < 89$ mm and thickness < 3.2 mm Steel grade S235 JRH	100,NE,2



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Visibility characteristics	Value/description/class/reference for Microprismatic Retro-reflective sheetings (ETA)
Retroreflective signs - Daylight chromaticity & luminance factor - Coefficient of retroreflection R _a	ETA 10/0118, ETA 11/0426, ETA 11/0427 ETA 11/0521, ETA 11/0522, ETA 13/0303 ETA 10/0118 (Table 15 of the relevant CUAP) ETA 11/0426, ETA 11/0427 ETA 11/0521, ETA 11/0522, ETA 13/0303
Transilluminated retroreflective signs - daylight chromaticity & luminance factor - coefficient of retroreflection R _a	ETA 10/0118, ETA 11/0426, ETA 11/0427 ETA 11/0521, ETA 11/0522, ETA 13/0303 ETA 10/0118 (Table 15 of the relevant CUAP) ETA 11/0426, ETA 11/0427 ETA 11/0521, ETA 11/0522, ETA 13/0303

Durability	Value/description/class/reference
Impact resistance - Sign face material	Pass (for references see table "Visibility Characteristics")
Resistance of weathering - Sign face material	Pass (for references see table "Visibility Characteristics")
Corrosion resistance Metal: Steel support S235 JRH	SP1 (hot dip galvanized to Z1000 according to EN 10346 which gives min. 70 µm according to EN ISO 1461:2009)



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Product description and configuration

Part	Description
Sign plate:	Aluminium plates and aluminium panels
Reflective sheeting:	Microprismatic Retro-reflective sheeting
Steel support PPV:	Ø 60.3 mm, thickness < 2.24 mm, steel grade S235 JRH