

## Certificate of constancy of performance 1853-CPR-007

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

### VEHICLE RESTRAINT SYSTEM SPO-97 brand name "SPO – 97/4,0 N2" containment level N2 and impact severity level A according to EN 1317-2:2010, for Vehicle Restraint System for circulation areas

produced by  
"ZPT" AD  
1 Industrialen,  
8680 Straldzha, Bulgaria

and produced in the manufacturing plant  
"ZPT" AD  
1 Industrialen,  
8680 Straldzha, Bulgaria

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

**EN 1317-5:2007+A2:2012**

under system 1 are applied and that

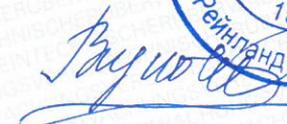
***the products fulfils all the prescribed requirements set out above.***

This certificate was first issued on 07.11.2011 and will remain valid as long as the test methods and/or factory production control requirements included in the harmonized standard, used to assess the performance of the declared characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly.  
Annex 1 is integral part of this certificate.



20.12.2013  
Sofia, Bulgaria

Deputy Head of Notified Body:

  
/Eng. V. Pupova/

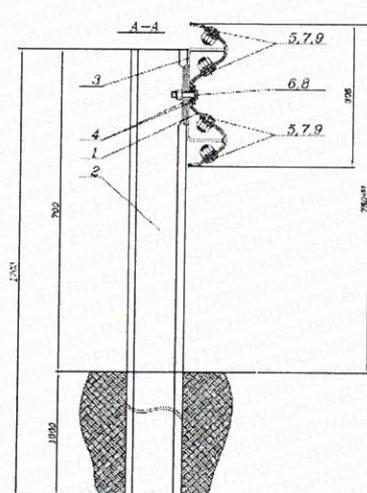
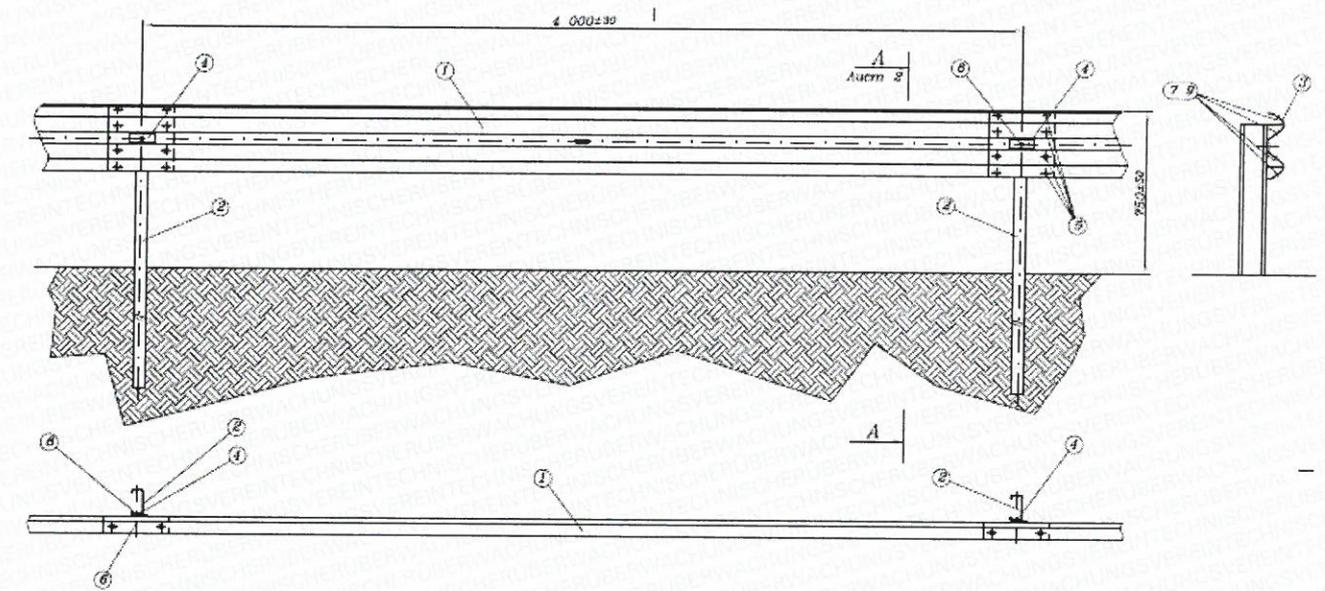
Annex 1

**Technical characteristics of SPO-97/4,0 N2  
№ 1853-CPR-007**

This Annex is integral part of Certificate of constancy of performance No 1853-CPR-007 and is valid only with reference to the above mentioned Certificate

<b>Manufacturer:</b>	"ZPT" AD 1 Industrialen, 8680 Straldzha, Bulgaria / ZZD Consortium "Systems for Road Safety"
<b>Undertaking:</b>	"ZPT" AD 1 Industrialen, 8680 Straldzha, Bulgaria
<b>Name:</b>	Steel Guardrail for Roads – 97/4.0 N2 (SPO-97/4.0 N2)
<b>Standard (norm):</b>	EN 1317-5:2007+A1:2009
<b>Initial type-testing:</b> (EN 1317-1:1998; EN 1317-2:1998; EN 1317-2/A1:2006)	CSI S.p.A. Proving Ground Facility, Bollate-Milano, Italy (laboratory-subcontractor)
<b>Protocols of ITT:</b>	0105\ME\HRB\11 от 10.10.2011 0106\ME\HRB\11 от 14.10.2011
<b>Contaminant level:</b>	N2
<b>Impact severity:</b>	A
<b>Working width:</b>	2,1 м клас W6
<b>Dynamic deflection:</b>	2,0 м
<b>Criteria for Examination:</b>	TB32-1500 кг; 110 км./h; 20 <sup>0</sup> TB11-900 кг; 100 км./h; 20 <sup>0</sup>
<b>Elements for SPO-97-4.0 N2,</b> produced by "ZPT" AD:	1. Guardrail Beam profile A – СПО-97/4,0-00.01 2. Post „C“ 120 - СПО-97/4,0-00.02 3. Bracket shock-absorbing - СПО-97/4,0-00.03 4. Plank - СПО-97/4,0-00.04
<b>Main material/s (strength class/standard):</b>	S235 по EN 10025-2
<b>Conformation:</b>	Hereby is confirmed that all requirements are fulfilled.
<b>Legal force starting at:</b> (issue of first certificate):	07.11.2011 г.
<b>Validity:</b>	The present Certificate shall be valid until significant changes in the provisions of the above mentioned Standard, Company's Production Conditions or System of Production Control
<b>Notes:</b>	Components of the System are hot-dip galvanized EN 1461, with a zinc coating min $\delta_m \geq 70 \mu\text{m}$

**Mountig features**



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9	БС EN ISO 7049:2003	Шайба АМ16	8	0,091	0,023	Горен материал
8	БС EN ISO 4334:2003	Гайка М10-5	1	0,012	0,003	Горен материал
7	БС EN ISO 4334:2003	Гайка М16-5	8	0,268	0,067	Горен материал
6	БС EN ISO 4017:2014	Болт М10х45-6.8	1	0,034	0,009	Горен материал
5	ISO 8677	Болт М16х30-6.8	8	0,736	0,184	Горен материал
4	СТБ-97/4.0-00.04	Паянка	2	0,350	0,088	БС СТ 1300-0100
3	СТБ-97/4.0-00.03	Стойка амортизатора	1	0,940	0,235	БС СТ 1300-0100
2	СТБ-97/4.0-00.02	Стълаб "С" 120	1	12,250	3,064	БС СТ 1300-0100
1	СТБ-97/4.0-00.01	Шина средна	1	47,400	11,850	БС СТ 1300-0100
По	Омечени	Наименование	Кол.	Маса, кг	Маса, кг/м	Забел.

20.12.2013  
Sofia, Bulgaria

Deputy Head of  
Notified Body:

/Eng. V. Pupova/

