

STN P	Záchytné bezpečnostné zariadenia na pozemných komunikáciách Montované tlmiace zariadenia pre nákladné vozidlá Výkonnostné triedy, preberacie kritériá na nárazové skúšky a skúšobné metódy	STN P CEN/TS 16786 73 6031
------------------	---	--

Road restraint systems - Truck Mounted Attenuators - Performance classes, impact test acceptance criteria and test performance

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/19

Táto predbežná STN je určená na overenie. Pripomienky zasielajte ÚNMS SR najneskôr do marca 2021.

Obsahuje: CEN/TS 16786:2018

129015

TECHNICAL SPECIFICATION

CEN/TS 16786

SPÉCIFICATION TECHNIQUE

TECHNISCHE SPEZIFIKATION

April 2018

ICS 43.040.80; 43.080.10

English Version

Road restraint systems - Truck Mounted Attenuators - Performance classes, impact test acceptance criteria and test performance

Dispositifs de retenue routiers - Atténuateurs de choc
montés sur camions - Classes de performance, critères
d'acceptation des essais de choc et méthodes d'essai

Rückhaltesysteme an Straßen -
Transportfahrzeuggestützte mobile Anprallverzögerer
(TMA) - Leistungsklassen, Abnahmekriterien für
Anprallprüfungen und Prüfungsleistungen

This Technical Specification (CEN/TS) was approved by CEN on 13 November 2017 for provisional application.

The period of validity of this CEN/TS is limited initially to three years. After two years the members of CEN will be requested to submit their comments, particularly on the question whether the CEN/TS can be converted into a European Standard.

CEN members are required to announce the existence of this CEN/TS in the same way as for an EN and to make the CEN/TS available promptly at national level in an appropriate form. It is permissible to keep conflicting national standards in force (in parallel to the CEN/TS) until the final decision about the possible conversion of the CEN/TS into an EN is reached.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

CEN/TS 16786:2018 (E)

Contents		Page
European foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Abbreviations	6
5	Test parameters	7
5.1	Test site	7
5.2	Test vehicles	7
5.2.1	Impacting vehicles	7
5.2.2	Mobile carrier	8
5.2.3	Location of the ATD	9
5.3	Test matrix	9
5.4	Accuracies and limit deviations of impact speeds and approach angle	12
5.4.1	Vehicle impact speed	12
5.4.2	Vehicle approach angle	12
5.4.3	Combined limit deviation of speed and angle	12
6	Photographic coverage	13
7	Information to be reported	14
7.1	General	14
7.2	General test information	14
7.3	Structural adequacy	14
7.4	Deformation of mobile carrier	14
7.5	Deformation of impacting vehicle	15
7.6	Trajectory of the whole system	15
7.7	Trajectory of impacting vehicle	15
7.8	Severity indices	15
8	Evaluation criteria	16
8.1	General	16
8.2	Structural adequacy	16
8.3	Deformation of impacting vehicle and mobile carrier	16
8.4	Trajectory of impacting vehicle	16
8.5	Severity index	16
Bibliography		17

European foreword

This document (CEN/TS 16786:2018) has been prepared by Technical Committee CEN/TC 226 “Road equipment”, the secretariat of which is held by AFNOR.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

According to the CEN/CENELEC Internal Regulations, the national standards organisations of the following countries are bound to announce this Technical Specification: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

CEN/TS 16786:2018 (E)**Introduction**

Truck Mounted Attenuators (TMAs) are designed to protect occupants of impacting passenger motor vehicles from impacts with the rear of stationary or slow-moving mobile carriers used in work zones and during maintenance operations. During an impact with a TMA, the mobile carrier is accelerated forward as the impacting vehicle is decelerated. This can, in turn, pose a risk to road workers in front of the support vehicle.

This Technical Specification aims to conduct impact testing of whole TMA systems to establish the severity of an impact with the whole system, and to establish the trajectory of the impacting vehicle and mobile carrier following the impact.

1 Scope

This Technical Specification establishes test methods for whole Truck Mounted Attenuator systems (TMAs) under impact.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 1317-1:2010, *Road restraint systems — Part 1: Terminology and general criteria for test methods*

EN 13036-4, *Road and airfield surface characteristics — Test methods — Part 4: Method for measurement of slip/skid resistance of a surface: The pendulum test*

ISO 8349, *Road vehicles — Measurement of road surface friction*

ISO 10392, *Road vehicles — Determination of centre of gravity*

koniec náhľadu – text ďalej pokračuje v platenej verzii STN