

<b>STN</b>	<b>Umelé horolezecké konštrukcie</b> <b>Časť 1: Bezpečnostné požiadavky a skúšobné</b> <b>metódy na umelé horolezecké konštrukcie so</b> <b>zaist'ovacími bodmi</b>	<b>STN</b> <b>EN 12572-1</b>  94 2050
------------	--	--

Artificial climbing structures - Part 1: Safety requirements and test methods for ACS with protection points

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. 06/17

Obsahuje: EN 12572-1:2017

Oznámením tejto normy sa ruší  
STN EN 12572-1 (94 2050) zo septembra 2007

**124814**

---

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2017  
Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.



EUROPEAN STANDARD

**EN 12572-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2017

ICS 97.220.10

Supersedes EN 12572-1:2007

English Version

## Artificial climbing structures - Part 1: Safety requirements and test methods for ACS with protection points

Structures artificielles d'escalade - Partie 1 : Exigences  
de sécurité et méthodes d'essai relatives aux SAE avec  
points d'assurage

Künstliche Kletteranlagen - Teil 1:  
Sicherheitstechnische Anforderungen und  
Prüfverfahren für KKA mit Sicherungspunkten

This European Standard was approved by CEN on 29 October 2016.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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: Avenue Marnix 17, B-1000 Brussels**

<b>Contents</b>	<b>Page</b>
European foreword.....	3
<b>1 Scope .....</b>	<b>4</b>
<b>2 Normative references .....</b>	<b>4</b>
<b>3 Terms and definitions .....</b>	<b>4</b>
<b>4 Safety requirements and test methods .....</b>	<b>6</b>
<b>4.1 Layout and placement of individual protection points .....</b>	<b>6</b>
<b>4.2 Design of individual top protection points .....</b>	<b>8</b>
<b>4.2.1 General.....</b>	<b>8</b>
<b>4.2.2 Dimensions.....</b>	<b>8</b>
<b>4.3 Structural integrity.....</b>	<b>9</b>
<b>4.3.1 Structural integrity of an ACS .....</b>	<b>9</b>
<b>4.3.2 Structural integrity of a protection point connection.....</b>	<b>10</b>
<b>4.4 Impact resistance and deflection of surface elements .....</b>	<b>10</b>
<b>4.5 Panel insert resistance.....</b>	<b>10</b>
<b>4.6 Proof testing.....</b>	<b>10</b>
<b>4.7 Falling space.....</b>	<b>11</b>
<b>4.8 Free space .....</b>	<b>11</b>
<b>4.9 Climbing surfaces.....</b>	<b>11</b>
<b>5 Marking.....</b>	<b>11</b>
<b>6 Instruction manual.....</b>	<b>12</b>
<b>7 Technical documentation of ACS .....</b>	<b>12</b>
<b>Annex A (normative) Effects.....</b>	<b>13</b>
<b>Annex B (normative) Method of calculation of structural integrity .....</b>	<b>15</b>
<b>Annex C (normative) Load testing of structural integrity of protection point connections .....</b>	<b>17</b>
<b>Annex D (normative) Impact test of surface elements .....</b>	<b>18</b>
<b>Annex E (normative) Panel insert resistance test.....</b>	<b>21</b>
<b>Annex F (normative) Proof testing.....</b>	<b>23</b>
<b>Annex G (normative) Inspection and maintenance .....</b>	<b>26</b>
<b>Bibliography.....</b>	<b>28</b>

## European foreword

This document (EN 12572-1:2017) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by July 2017, and conflicting national standards shall be withdrawn at the latest by July 2017.

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.

This document supersedes EN 12572-1:2007.

This standard EN 12572, *Artificial climbing structures*, consists of the following parts:

- *Part 1: Safety requirements and test methods for ACS with protection points*
- *Part 2: Safety requirements and test methods for bouldering walls*
- *Part 3: Safety requirements and test methods for climbing holds*

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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.

## 1 Scope

This European Standard specifies the safety requirements and test methods for artificial climbing structures with protection points (hereafter referred to as ACS).

This European Standard is applicable for ACS in normal use for sport climbing.

This European Standard is not applicable to ice climbing, dry tooling and playground equipment.

## 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 1991-1-3, *Eurocode 1 - Actions on structures - Part 1-3: General actions - Snow loads*

EN 1991-1-4, *Eurocode 1: Actions on structures - Part 1-4: General actions - Wind actions*

EN 1991-1-5, *Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions*

EN 1998-1, *Eurocode 8: Design of structures for earthquake resistance - Part 1: General rules, seismic actions and rules for buildings*

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**