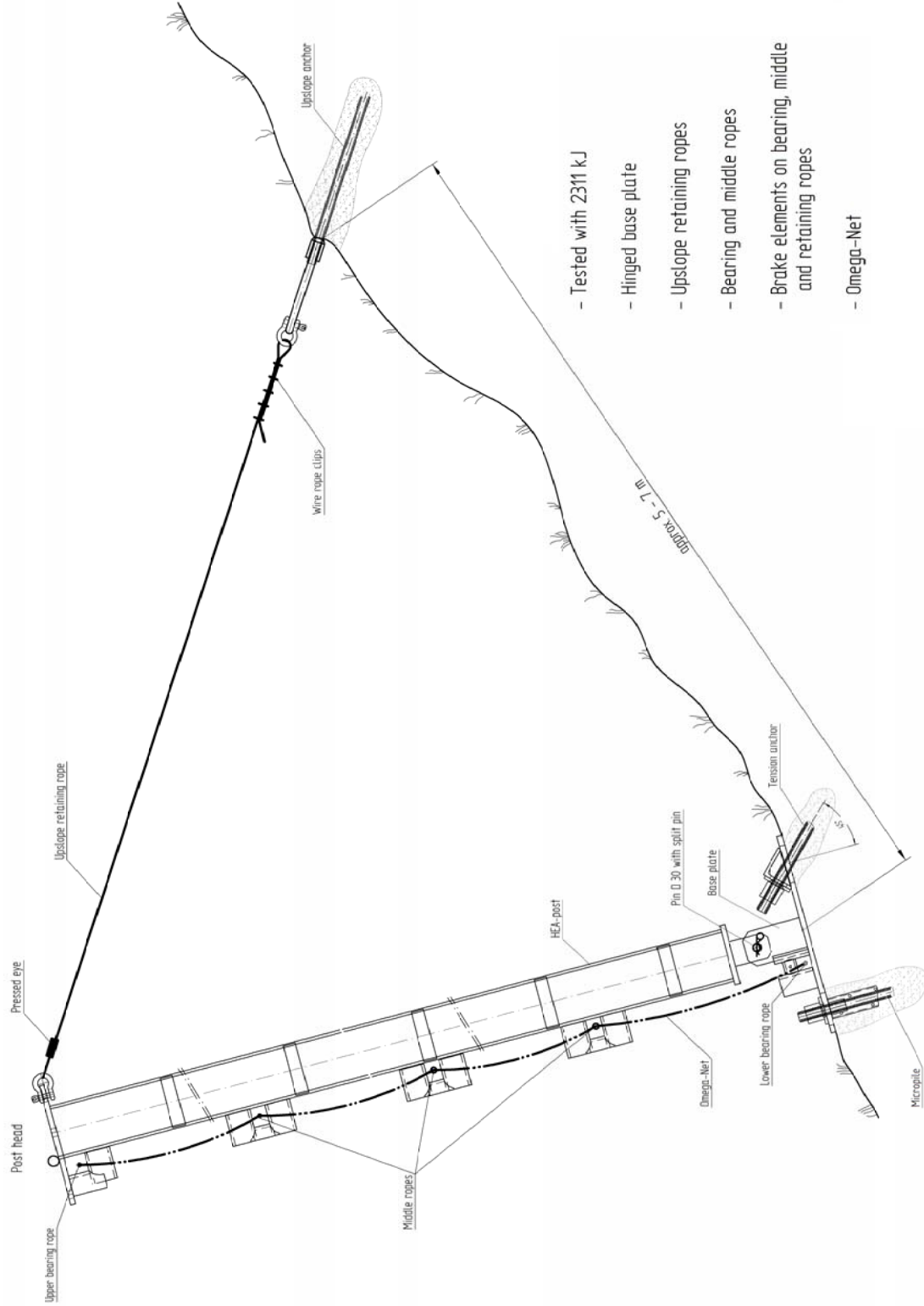


# Rockfall protection system

## TSV-2000-ZD h4

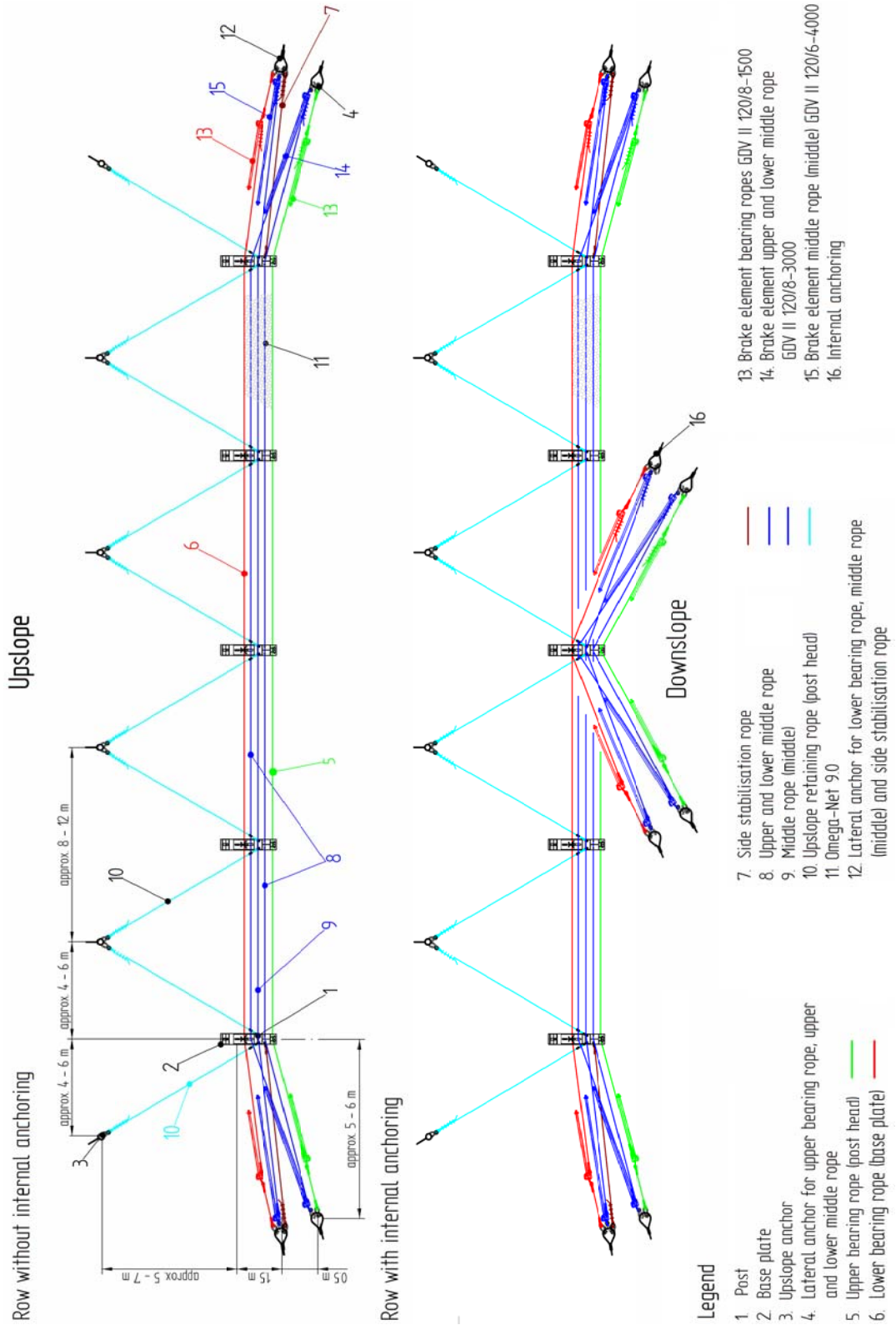


## Rockfall protection system TSV-2000-ZD h4 · Lateral View



- Tested with 2311 kJ
- Hinged base plate
- Upslope retaining ropes
- Bearing and middle ropes
- Brake elements on bearing, middle and retaining ropes
- Omega-Net

# Rockfall protection system TSV-2000-ZD h4 - Plan View



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## European Technical Assessment

**ETA-14/0357**  
of 07/11/2014

General part

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**Technical Assessment Body issuing the European Technical Assessment**

Österreichisches Institut für Bautechnik (OIB)

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**Trade name of the construction product**

TSV-2000-ZD h4

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**Product family to which the construction product belongs**

Falling rock protection kit

electronic copy

**Manufacturer**

Trumer Schutzbauten GmbH  
Maria Bühel Strasse 7  
5110 Oberndorf  
Austria

**Manufacturing plant**

Trumer Schutzbauten GmbH  
Handelsstraße 6  
5162 Obertrum  
Austria

**This European Technical Assessment contains**

35 pages including Annexes A.1 to A.15 which form an integral part of this assessment

**This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of**

Guideline for European technical approval (ETAG) No. 027 Falling rock protection kits, edition February 2008, amended April 2013, used as European Assessment Document (EAD)

This is an English translation, the original version is in German.

## **Certificate of constancy of performance**

### **1379-CPR-022/14**

In compliance with regulation 305/2011/EU of the European Parliament and of the Council of 9<sup>th</sup> March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

## **FALLING ROCK PROTECTION KITS**

produced by

### **Trumer Schutzbauten GmbH**

Maria-Bühel-Straße 7, 5110 Oberndorf, Austria

and produced in the manufacturing plant

### **Werk Obertrum**

Handelsstraße 6, 5162 Obertrum am See, Austria

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

## **ETAG 027:2012/Amd:2013**

under system 1 are applied and that

## **the products fulfil all the prescribed requirements set out above.**

This certificate was first issued on 2014-12-12 and will remain valid as long as the ETAG and the single ETAs remain valid and the production conditions in the plant or the factory production control itself are not modified significantly, except this certificate is suspended or withdrawn by TVFA-ZERT.

The current validity of the certificate can be taken from the attached product register which is an integral part of the certificate.



The head of the certification body:



Dipl.-Ing. Dr. D. Schulter

Graz, 2017-07-26

The TVFA is by decision of the Federal Ministry of Science, Research and Economy based on AkkG 2012 accredited as certification body according to EN ISO/IEC 17065.

The actual accreditation volume can be found on [www.tvfa.tugraz.at](http://www.tvfa.tugraz.at).

According decision of the University council the TVFA is associated to the Institute of Technology and Testing of Building Materials. Legal entity is the Graz University of technology. Head: Univ.-Prof. Dipl.-Wirtsch.-Ing. Dr.-Ing. M. Krüger

Address: Inffeldgasse 24, A-8010 Graz; Tel.: (0316) 873-7160; Fax: (0316) 873-7650; Mail: [zertifizierung@tvfa.tugraz.at](mailto:zertifizierung@tvfa.tugraz.at); Web: TVFA-ZERT.tugraz.at  
FB-AA QM-Z002-5/2-7/17





This is an English translation, the original version is in German.

**Annex to the**  
**Certificate of constancy of performance of**  
**FALLING ROCK PROTECTION KITS**

**1379-CPR-022/14**

This certificate covers the constancy of performance of the following products of the producer

**Trumer Schutzbauten GmbH**

Maria-Bühel-Straße 7, 5110 Oberndorf, Austria

produced in the manufacturing plant

**Werk Obertrum**

Handelsstraße 6, 5162 Obertrum am See, Austria

Trade mark of the kit	European Technical Assessment (ETA)		Declaration of performance *)
	Number	Date	
TS-5000-ZD	ETA-10/0202	23.10.2015	2015-2, 02.11.2015
TSC-3000-ZD	ETA-11/0227	24.10.2016	2016-1, 02.11.2016
TSC-2000-ZD	ETA-11/0228	27.10.2016	2016-2, 02.11.2016
TSC-1500-ZD	ETA-11-0225	27.10.2016	2016-3, 02.11.2016
TSC-1000-ZD	ETA-11/0226	24.10.2016	2016-4, 02.11.2016
TSC-500-ZD h4	ETA-12/0116	09.05.2017	2017-1, 09.06.2017
TSC-500-ZD	ETA-12/0117	09.05.2017	2017-2, 09.06.2017
TSC-250-ZD	ETA-12/0204	02.10.2017	2017-3, 11.10.2017
TSC-100-ZD	ETA-12/0156	02.10.2017	2017-4, 11.10.2017
TSV-1000-oA	ETA-13/0690	29.06.2013	2014-13, 25.11.2014
TSV-500-oA	ETA-14/0272	07.11.2014	2014-2, 14.11.2014
TSV-2000-ZD h4	ETA-14/0357	07.11.2014	2014-1, 14.11.2014
TSV-2000-oA	ETA-14/0358	07.11.2014	2014-3, 14.11.2014
TSC-100-oA	ETA-14/0472	18.05.2015	2015-1, 01.06.2015

\*) The declared product characteristics can be taken from the declaration of performance.

Graz, 2017-11-17

The certifier:



Ing. M. Payer



The head of the certification body:



Dipl.-Ing. Dr. D. Schuller

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 FB-AA QM-Z002-6/8-7/17

