



Product Service

Competence.  
Certainty.  
Quality.

## Technical Report No. 713154098

dated 2019-05-23

Client: TrueBlue LLC  
dba Head Rush Technologies  
1835 38<sup>th</sup> Street  
USA-Boulder CO 80301

Manufacturing location: s.a.

Test object: Climbing wall belay fixation element for TruBlue, type  
**Tru-Mount**

Test specifications: Based on EN 12572-1: 2017

Purpose of examination: Testing of conformity with test specification

Test result: see report

5 pages and annexes

This technical report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.



Product Service

Competence.  
Certainty.  
Quality.

## 1. TEST SUBJECT AND PURPOSE OF EXAMINATION

On behalf of the company Head Rush Technologies, TÜV SÜD Product Service GmbH should test, whether the above mentioned device, described in item 6 of this technical report, meets the requirements of the above mentioned test specification.

## 2. TEST SAMPLES

The required test samples were sent to TÜV SÜD Product Service GmbH in February 2019 by company Head Rush Technologies, USA.

## 3. TEST EXECUTION

The tests were executed in the labs of the TÜV SÜD Product Service GmbH between February and May 2019. TÜV SÜD Product Service GmbH has the accreditation for testing the product.

## 4. MANUFACTURER DOCUMENTS

For testing the following documents were given to the laboratory:

- technical documentation with technical drawings, see annex of this report;
- User´s instructions, see annex of this report;

## 5. TEST REQUIREMENTS

The device shall be tested conform to the relevant design and strength requirements of DIN EN 12572-1: 2017 to show fitness for use as fixation device for TruBlue belay device in climbing gyms (DIN EN 12572-1; pt. 4.2 and pt. 4.3.1 + Annex A).



Product Service

Competence.  
Certainty.  
Quality.

## 6. DESCRIPTION OF THE TEST SAMPLES

Model:	<b>Tru-Mount</b>
Use:	Fixation device for TruBlue belay devices in climbing gyms on horizontal climbing walls.
Dimensions:	292 mm x 150 mm x 150 mm; 10 mm thick sides;
Material:	steel
Weight:	5,32 kg
Fixations:	Wall-side: 2 slots $\varnothing$ 13 mm x 89 mm; TruBlue-side: 4 holes $\varnothing$ 25,5 mm
Wall fixation:	Not included, recommended in installation manual: M10, class 12.9 or M12, class 8.8 or 3/8" grade 8 or 1/2", grade 8
Corrosion protection:	Powder coating



test sample without corrosion protection and deburring



final product



on wall with top belay



on wall with TruBlue



Product Service

Competence.  
Certainty.  
Quality.

## 7. TEST RESULTS

The device was fixed on a solid structure like recommended in the installation manual with M 12 screws on the 2 wall-side slots.

Conform to DIN EN 12572-1, Pt 4.2 design of belay points with calculation, chamfering and diameter of 25.5 mm meets the requirements.

Conform to DIN EN 12572-1, Pt 4.3.1 + Annex A a load of 6.6 kN x 1,5 (safety factor) = 9.9 kN was applied for 1 minute to the most unfavourable fixation point (middle of outside holes). There was no permanent deformation.

Conform to DIN EN 12572-1, Pt 4.3.1 + Annex A a load of 20 kN was applied for 1 minute to the most unfavourable fixation point (middle of outside holes). There was slight deformation on the hole. There was no breakage.

The installation manual gives adequate information to attach the device on a climbing gym wall and how to use it.

**Requirements were met**

## 8. SUMMARY

The following product meets the requirements of above mentioned test specification:

Climbing wall belay fixation element for TruBlue, type

**Tru-Mount**

**TÜV SÜD PRODUCT SERVICE GMBH**

CPS-CS4

Report checked:

Expert:

SIGN-ID 252416  
**Matthias Völz**

SIGN-ID 251059  
**Volker Kron**

Annexes: technical documentation, installation manual, test records