

21-IS-1974

EPKC SELF THREADING BOLT TESTS
INSPECTION REPORT

Inspection Requesting: LINK YAPI SAN. VE TIC. A.Ş.
Gebze Organize Sanayi Bölgesi, 1000. Sokak, NO:1016,
Çayırova - Kocaeli

Inspection Address: LINK YAPI SAN. VE TIC. A.Ş.
GOSB, 1000. Sokak, NO:1016, Çayırova - Kocaeli

Inspection Dates: 30.12.2021

Report No: 21-IS-1974-TAT-22-0010

Report Date: 28.02.2022

Report Published: TÜV AUSTRIA TURK Belgelendirme Eğitim ve Gözetim
Hizmetleri Ltd. Şti.
Çamlık Mah. İkbal Cad. Dinç Sok. No:28/1 Ümraniye / İstanbul

Index

1	INTRODUCTION	3
2	INSPECTION	3
3	MAIN CONCLUSIONS & RESULT & REMARKS	3
4	ANNEXES	4
5	APPROVAL & LEGAL RESPONSIBILITY	4
6	PHOTOS	5

1 INTRODUCTION

This audit LINK YAPI SAN. VE TİC. It includes witnessing the tensile strength and shear strength tests of EPKC SELF THREADING bolts produced by the firm on 30.12.2021.

The load values of the tested EPKC SELF THREADING bolts are specified by the LINK company. Audit findings are summarized below.

TITLE AND DOCUMENT REFERENCES	REVISION AND DATE
Easy Installation Bolt Test Procedure (TP.050)	Rev. 0 / 28.12.2021

Participants ;

Ali HACIOĞLU - TUV AUSTRIA, Inspector
Ömer CILIZ - LINK YAPI SAN. VE TIC. A.Ş.

2 INSPECTION

The technical drawings of the EPKC SELF THREADING bolts and the calibration certificate of the test equipments are available.

As seen in the technical drawing below, on the test fixture made of 1040 manufacturing steel by Link company, the tests were carried out according to the Easy Installation Bolt Test Procedure by tightening the charged bolt on the connection piece to be used for the tensile test and shear test.

2.1. The tensile strength tests.

A load was applied to the test device manually and gradually, and it was waited for a few seconds every time 5kN was applied, and when the load was stable, the load was applied again. When the rupture occurs or the target load is reached, the test is stopped and the reached max. value saved.

2.2. The shear strength tests

The whole application was done as in the tensile test, only the specimen assembly and test apparatus were changed by applying shear load. So it was done according to the testing procedure. The test was stopped when the cut was made or the target load was reached and the maximum value reached was recorded.

3 MAIN CONCLUSIONS & RESULT & REMARKS

- There are no products that can not provide the targeted load values as a result of the tests
- There is no product that is too damaged to perform its job as a result of the tests.
- Products on which the tests are applied, test positions, load values and the results are listed below.

The tensile strength tests.

TENSILE TEST	MAXIMUM LOAD	DESCRIPTIONS
1. SAMPLE	50,46 kN	Test Complete
2. SAMPLE	50,80 kN	Test Complete
3. SAMPLE	50,26 kN	Test Complete

The shear strength tests

SHEAR TEST	MAXIMUM LOAD	DESCRIPTIONS
4. SAMPLE	41,94 kN	Bolt Shear Damage and Test Complete
5. SAMPLE	40,06 kN	Bolt Shear Damage and Test Complete
6. SAMPLE	40,64 kN	Bolt Shear Damage and Test Complete

4 ANNEXES

1. Calibration Certificate
2. Technical Drawing (EPKC.1020)
3. Test Position - The tensile strength tests
4. Test Position - The shear strength tests
5. Raw Material Certificate
6. Easy Installation Bolt Test Procedure (TP.050)

5 APPROVAL & LEGAL RESPONSIBILITY

As the signatories below, we undertake that we have reviewed and agreed to this report and that we are aware of all the requirements herein and comply with its provisions.

This surveillance report has been prepared on the basis of high level of knowledge and effort and is for informational purposes only. With this report, TÜV AUSTRIA TURK does not bear any legal or financial obligations.

	Name Surname	Signature	Task	Date
Prepared	Ali HACIOĞLU		Industrial Inspector	28.02.2022