

## TEST CERTIFICATE / TEST SERTİFİKASI Industrie Service

Testing of connection sleeves on steel wire ropes for Seismic Brace system  
Sismik Askılama için kullanılacak Çelik halatların bağlantı noktalarının testi

User "Kullanıcı" : General Marketing

Project No. "Proje No" : TGK 10-B-00631/01

Manufacturer : LINK Yapı ve Tesisat Malz.San.ve Tic.Ltd.Şti.  
İmalatçı : Fahri Korutürk Cad. Metal sk. No: 5  
KARTAL/İSTANBUL / TURKEYTypes of Seismic Brace : STB 12 (2.5 mm Ø), STB 13 (3.05 mm Ø), STB 15 (4.8 mm Ø)  
Sismik Halat tipleri : STB 17 (6.30 mm Ø)Validity of certificate : 05.08.2012  
Sertifika GeçerliiDrawings No. : In the related Link technical file  
Resim No. :Related test standart : Link Specification  
Test Standard :

LINK Company requested from TÜV SÜD / Türkiye to observe and approve tensile tests on connection sleeve of Seismic Braces for four difference types. LINK has response from quality of connection sleeves. LINK buys steel wire rope from difference manufacturer. TÜV SÜD / Türkiye Inspector selected three steel wire ropes for each types. All the steel wire ropes have been tensile tested under observation of TÜV SÜD inspectors. Following test results for each type of Seismic Brace steel wire ropes have been average of three tests.

Type of connection sleeve	Tensile test result	Safe Loads (1,5:1 Safety Factor)	Type of fracture
STB 12 (2.50 mm Ø) Red	3.7 KN	2.45 KN	steel wire rope
STB 13 (3.05 mm Ø) White	5.2 KN	3.45 KN	steel wire rope
STB 15 (4.80 mm Ø) Blue	18.3 KN	12.20 KN	steel wire rope
STB 17 (6.30 mm Ø) Yellow	27.53 KN	18.35 KN	steel wire rope

During inspection and witnessed of tests we evaluated type of fracture all fractures occurred on steel wire rope. We observed the tensile strength of Seismic Brace Connection Sleeves are above tensile strength of steel wire ropes. After the satisfactory result this Test Certificate has been prepared and approved by TÜV SÜD / Turkey.

Audit Date "Denetim Tarihi" : 02.08.2010

Audit Place "Denetim Yeri" : KARTAL/İSTANBUL / TURKEY

Anex "Ekler" : LINK Technical file includes test photos

Audit Result "Denetim Sonucu" : SATISFACTORY

Place / yer  
Istanbul-TURKEYRev Date/Rev tarih  
05.08.2010TÜV SÜD / Turkey  
HAKIM OZLUK

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