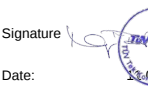
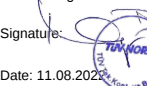


|                                                                                                                     | <b>TÜV NORD TÜRKİYE</b><br><b>TÜV TEKNİK KONTROL VE BELGELENDİRME A.Ş.</b> |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   | Date / Tarih:                                                                                                                                                                                                       | 11.08.2022                                         |                                                       |                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|-------------------------------------------------------|-------------------------------------|
|                                                                                                                                                                                                      |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   | Order No / İş No:                                                                                                                                                                                                   | 2425431494                                         |                                                       |                                     |
|                                                                                                                                                                                                      | <b>TENSILE TEST REPORT</b><br><b>ÇEKME DENEY RAPORU</b>                    |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   | Report No / Rapor No:                                                                                                                                                                                               | TENSILE-2425431494-01                              |                                                       |                                     |
|                                                                                                                                                                                                      |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   | Page / Sayfa:                                                                                                                                                                                                       | 1/1                                                |                                                       |                                     |
| Client/Müşteri:                                                                                                                                                                                      |                                                                            | Metaksan Elektrik ve İnşaat Malzemeleri                                                                                                   |                                                                               |                                                                                |                                                                                                                                          | Project No / Proje No:                                            |                                                                                                                                                                                                                     | Somunlu Kelepçe Grubu 01<br>Pipe Clamp With Nut 01 |                                                       |                                     |
| Description of Work / İş Tanımı:                                                                                                                                                                     |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          | Material Type / Malzeme Tipi:                                     |                                                                                                                                                                                                                     | -                                                  |                                                       |                                     |
| Weld Process / Kaynak Yöntemi:                                                                                                                                                                       |                                                                            | <input checked="" type="checkbox"/> Elle Ark<br><input type="checkbox"/> Snaw (111)                                                       | <input type="checkbox"/> Toz Altı<br><input type="checkbox"/> Saw (121)       | <input type="checkbox"/> TiG<br><input type="checkbox"/> Gtaw (141)            | <input type="checkbox"/> MIG/MAG<br><input type="checkbox"/> Gmaw (131/135)                                                              | <input type="checkbox"/> Diğer<br><input type="checkbox"/> Other  |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Weld Joint Type / Kaynak Birleşim Yöntemi:                                                                                                                                                           |                                                                            | <input type="checkbox"/> Butt Weld<br><input type="checkbox"/> Alın Kaynağı                                                               | <input type="checkbox"/> Fillet Weld<br><input type="checkbox"/> Köşe Kaynağı | <input type="checkbox"/> Branch Weld<br><input type="checkbox"/> Tali Bağlantı | <input type="checkbox"/> T-Joint<br><input type="checkbox"/> T-Bağlantı                                                                  | <input type="checkbox"/> Nozzle<br><input type="checkbox"/> Nozul |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Weld Position / Kaynak Pozisyonu:                                                                                                                                                                    |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Test Standard / Test Standartı:                                                                                                                                                                      |                                                                            | <input type="checkbox"/> TS EN ISO 6892-1<br><input type="checkbox"/> TS EN ISO 4136                                                      | <input type="checkbox"/> TS EN ISO 5178<br><input type="checkbox"/> ASTM E8   | <input type="checkbox"/> TS EN 898-1<br><input type="checkbox"/> ASME SEC IX   | <input type="checkbox"/> DİĞER                                                                                                           | <input checked="" type="checkbox"/>                               |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Evaluation Standard / Değerlendirme Standartı:                                                                                                                                                       |                                                                            | <input type="checkbox"/> TS EN 15614-1<br><input type="checkbox"/> ASME SEC IX                                                            | <input type="checkbox"/> DİĞER                                                | <input checked="" type="checkbox"/>                                            |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Measurement Length / Ölçme Uzunluğu(mm)                                                                                                                                                              |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Test Speed / Deney Hızı (mm/min)                                                                                                                                                                     |                                                                            | 20                                                                                                                                        |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Sample Acceptance Date/ Numune Kabul Tarihi                                                                                                                                                          |                                                                            | 08.08.2022                                                                                                                                |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Cihaz Marka Model / Equipment Brand Model                                                                                                                                                            |                                                                            | CHECK-WAY                                                                                                                                 | Equipment Serial Number / Cihaz Seri Numarası                                 |                                                                                | 250840                                                                                                                                   | Mikrometre/Kal. Sert. No / Calibration Cert. No                   |                                                                                                                                                                                                                     | 1010111439                                         |                                                       |                                     |
| Kalibrasyon Sert. No / Calibration Cert. No                                                                                                                                                          |                                                                            | 22MA10 0094                                                                                                                               | Equipment Calibration Expiry Date / Kalibrasyon Geçerlilik Tarihi             |                                                                                | 09.03.2023                                                                                                                               | Kumpas Kalibrasyon No / Calliper Cal. No                          |                                                                                                                                                                                                                     | 103013250                                          |                                                       |                                     |
| Ortam Nem Oranı(%) / Setting Humidity Rate                                                                                                                                                           |                                                                            | 53                                                                                                                                        | Ortam Sıcaklığı (°C) / Setting Temperature                                    |                                                                                | 22                                                                                                                                       |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| <b>TENSILE TEST REPORT RESULTS</b><br><b>ÇEKME DENEY SONUÇLARI</b>                                                                                                                                   |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| ITEM NO                                                                                                                                                                                              | Thickness / Et Kalınlığı (mm)                                              | Width / Genişlik (mm)                                                                                                                     | Area / Alan (mm <sup>2</sup> )                                                | Yield Strength / Akma mukavemeti ReH (N/mm <sup>2</sup> , Mpa)                 | Yield Force / Akma Kuvveti; F (N)                                                                                                        | Tensile Strength/ Çekme Mukavemeti; Rm (N/mm <sup>2</sup> , MPa)  | Tensile Force/ Çekme Kuvveti; F (kN)                                                                                                                                                                                | Elongation / Yüzde Uzama A (%)                     | Reduction area after fracture / Kesit Daralması Z (%) | Location of Fracture/ Kopma Noktası |
| SK 006                                                                                                                                                                                               | 1/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 4.72                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 006                                                                                                                                                                                               | 1/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.13                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 006                                                                                                                                                                                               | 1/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 4.98                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 008                                                                                                                                                                                               | 1/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.89                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 008                                                                                                                                                                                               | 1/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.64                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 008                                                                                                                                                                                               | 1/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.72                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 010                                                                                                                                                                                               | 3/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.26                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 010                                                                                                                                                                                               | 3/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.98                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 010                                                                                                                                                                                               | 3/8"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.79                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 015                                                                                                                                                                                               | 1/2"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.66                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 015                                                                                                                                                                                               | 1/2"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.02                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 015                                                                                                                                                                                               | 1/2"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.45                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 020                                                                                                                                                                                               | 3/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 10.11                                                                                                                                                                                                               | -                                                  | -                                                     | Screw threw.                        |
| SK 020                                                                                                                                                                                               | 3/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 8.02                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 020                                                                                                                                                                                               | 3/4"                                                                       | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 9.01                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 025                                                                                                                                                                                               | 1"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 5.68                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 025                                                                                                                                                                                               | 1"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.96                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 025                                                                                                                                                                                               | 1"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 8.26                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 032                                                                                                                                                                                               | 1 1/4"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.93                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 032                                                                                                                                                                                               | 1 1/4"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.77                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 032                                                                                                                                                                                               | 1 1/4"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.26                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 040                                                                                                                                                                                               | 1 1/2"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 6.89                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 040                                                                                                                                                                                               | 1 1/2"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.29                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 040                                                                                                                                                                                               | 1 1/2"                                                                     | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 8.69                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 050                                                                                                                                                                                               | 2"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 7.96                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
| SK 050                                                                                                                                                                                               | 2"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 10.64                                                                                                                                                                                                               | -                                                  | -                                                     | Screw threw.                        |
| SK 050                                                                                                                                                                                               | 2"                                                                         | -                                                                                                                                         | -                                                                             | -                                                                              | -                                                                                                                                        | -                                                                 | 9.26                                                                                                                                                                                                                | -                                                  | -                                                     | Screw threw.                        |
|                                                                                                                                                                                                      |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |
| Performed By / Uygulayan                                                                                                                                                                             |                                                                            | Reviewed By/Kontrol Eden                                                                                                                  |                                                                               |                                                                                | Approved by/Onaylayan                                                                                                                    |                                                                   | Customer/Müşteri                                                                                                                                                                                                    |                                                    |                                                       |                                     |
| Name: Nefise AKTEPE<br>Signature: <br>Date: 11.08.2022                                                            |                                                                            | Name: Nefise AKTEPE<br>Signature: <br>Date: 11.08.2022 |                                                                               |                                                                                | Name: Nurgül DOĞAN<br>Signature: <br>Date: 11.08.2022 |                                                                   | Name: <br>Signature: <br>Date: 11.08.2022 |                                                    |                                                       |                                     |
| TÜV Teknik Kontrol ve Belgelendirme A.Ş.<br>Şehit Mehmet Fatih Öngül Sokak, No: 5 Kat: 4 Odak Plaza, Kozyatağı, 34742 Kadıköy / İSTANBUL<br>E-mail: tuv-nord@tuv-turkey.com http: www.tuv-turkey.com |                                                                            |                                                                                                                                           |                                                                               |                                                                                |                                                                                                                                          |                                                                   |                                                                                                                                                                                                                     |                                                    |                                                       |                                     |