



INDUSTRY & FACILITIES

FACTORY AUDIT REPORT no:02

Audit Date: 16.05.2016

Rapport d'audit de l'usine ou de l'unité de fabrication

1. General

Name and address of the factory, **MESA IMALAT SAN. VE TIC. A.S.**

Manufactured products (designation & references), **MESA FLEX TABLE FORM-SHORING SYSTEM, ADJUSTABLE TELESCOPIC PROBS, CUP-LOCK SCAFFOLDING TABLE FORM, HEAVY DUTY TABLE FORM, TUNNEL FORM SYSTEMS, FACADE SCAFFOLDS AND MODULAR WALL COLUMN FORM SYSTEMS, HYDROLIC SELF-CLIMBING SYSTEM WALL FORM**

List of standards and specifications,

-BS 1139:SECTION 2.1:1991,EN 74:1988; SPECIFICATION FOR STEEL COUPLERS,LOOSE SPIGOTS AND BASE-PLATES FOR USE IN WORKING SCAFFOLDS AND FALSEWORK MADE OF STEEL TUBES

-BS 1139:PART 5:1990; SPECIFICATION FOR MATERIALS, DIMENSIONS, DESIGN LOADS AND SAFETY REQUIREMENTS FOR SERVICE AND WORKING SCAFFOLDS MADE OF PREFABRICATED ELEMENTS.

-TS 8481 EN 39,FABRUARY 2003; LOOSE STEEL TUBES FOR TUBE AND COUPLER SCAFFOLDS-TECHNICAL DELIVERY CONDITIONS

-TS EN 1065, APRIL 1999; ADJUSTABLE TELESCOPIC STEEL PROPS-PRODUCT SPECIFICATIONS DESIGN AND ASSESSMENT BY CALCULATION AND TESTS

-TS EN 12813 NOVEMBER 2005; TEMPORARY WORKS EQUIPMENT-LOAD BEARING TOWERS OF PREFABRICATED COMPONENTS-PARTICULAR METHODS OF STRUCTURAL DESIGN

-TS EN 12811-1, DECEMBER 2005; TEMPORARY WORKS EQUIPMENT-PART1: SCAFFOLDS-PERFORMANCE REQUIREMENTS AND GENERAL DESIGN

-TS EN 12811-2 DECEMBER 2005: TEMPORARY WORKS EQUIPMENT- PART 2: INFORMATION ON MATERIALS

- TS EN 12811-3 DECEMBER 2005: TEMPORARY WORKS EQUIPMENT PART 3: LOAD TESTING

-TS EN 12812 FABRUARY 2015: FALSE WORK -PERFORMANCE REUIREMENTS AND GENERAL DESIGN

-TS EN 12810-1 DECEMBER 2005: FACADE SCAFFOLDS MADE OF PREFABRICATED COMPONENTS PART 1: PRODUCTS SPECIFACIONS

-TS EN 12810-2 DECEMBER 2005: FACADE SCAFFOLDS MADE OF PREFABRICATED COMPONENTS PART 2: PARTICULAR METHODS OF STRUCTURAL DESIGN

-TS EN 1004 OCTOBER 2006: MOBILE ACCESS AND WORKING TOWERS MADE OF PREFABRICATED ELEMENTS - MATERIALS, DIMENSIONS, DESIGN LOADS, SAFETY AND PERFORMANCE REQUIREMENTS

-TS EN 13374 DECEMBER 2013: TEMPORARY EDGE PROTECTION SYSTEMS - PRODUCT SPECIFICATION - TEST METHODS

-TS EN 1263-1 OCTOBER 2015: TEMPORARY WORKS EQUIPMENT - SAFETY NETS - PART 1: SAFETY REQUIREMENTS, TEST METHODS

-TS EN 1263-2 OCTOBER 2015: TEMPORARY WORKS EQUIPMENT - SAFETY NETS - PART 2: SAFETY REQUIREMENTS FOR THE POSITIONING LIMITS

Production rate (daily, yearly), **40 TONNES/DAY**

Number of shifts, **1**

Number of workers (total number), **412 WORKERS, 78 OFFICE PERSONEL**

Years of experience in manufacturing the above product, **36 YEARS**

Statutory approvals for the product (attach certificates) if any,

CERTIFICATE OF CONFORMITY TO TURKISH STANDARTDS, TURKISH STANDARDS INSTITUTION, REPORT NO: 000313-TSE-01/01, REALTED STANDARD: TS EN 12810-1

CERTIFICATE OF CONFORMITY TO TURKISH STANDARTDS, TURKISH STANDARDS INSTITUTION, REPORT NO: 000313-TSE-02/01, REALTED STANDARD: TS EN 73-3

Quality System Certification in force (reference),

ISO 9001:2008, (CERTIFICATE NO: TR003192-1, VALID UNTIL: 23 MARCH 2018, CERTIFIED BY BUREAU VERITAS)

EN ISO 3834-3 :2015 (CERTIFICATE NO: 15.01.06.FR.026 VALID UNTIL: 05 FEBRUARY 2018, CERTIFIED BY TURKISH STANDARDS INSTITION)

2. Manufacturing facilities

Description of each work station, **SEE ATTACHED LIST**

List of the equipment of the laboratory and test benches, **SEE ATTACHED LIST**

List of subcontracted services,

HOT-DIP GALVANIZING (as per EN ISO 1461)

3. Verifications (Yes/No/NA)

- The quality system is certified (attach certificate), **YES**
- The production planning process is updated regularly, **YES**
- The inspection department of the manufacturer is organized as per ISO 17020, **YES**
- The inspection plan incorporates the requirements of the standard and of the specification, **YES**
- Night shift production is under control of the Quality Control Department, **N.A**
- For each work station, the level of mechanization is sufficient to ensure homogeneous production (indicate the type and the number of machines for each), **YES**
- The batch and inspection lot definitions take into account the actual production equipment, **YES**
- All special processes are qualified and recorded, **YES**
- Competences and compliance of subcontractors are under Quality Assurance Department control, **YES**
- Assessment of the results of subcontractors activities are recorded and updated, **YES**
- Records are legible and allow satisfactory follow-up of the operations, **YES**
- The measurement devices are suitable and their uncertainty is known (attach list of main devices with their uncertainty), **YES**
- The test benches allow unattended surveillance by the BV inspector, **YES**

- The acceptability criteria for each measure specified by the standard are defined and take the uncertainty into account, **YES**
- The production of the series for type testing has been witnessed, **NO**
- Samples for the type test have been selected by the BV inspector, **NO**
- Testing was witnessed by the BV Auditor at the manufacturer's laboratory, **NO**
- Testing was witnessed by the BV Auditor at the subcontracted laboratory of **N.A**
- Certification of this subcontracted laboratory has been checked, **N.A**
- Final inspection plans are properly managed **YES**

4. **Conclusion**

The above verifications have been performed by the undersigned Auditor to Bureau Veritas. This report is transmitted to the manufacturer for further processing of the Factory Approval Application.

Attachments:

- *Certificate of Quality System:*

ISO 9001:2008, (CERTIFICATE NO: TR003192-1, VALID UNTIL: 23 MARCH 2018, CERTIFIED BY BUREAU VERITAS)

EN ISO 3834-3:2015 (CERTIFICATE NO: 15.01.06.FR.026 VALID UNTIL: 05 FEBRUARY 2018, CERTIFIED BY TURKISH STANDARDS INSTITUTION)

- *Inspection and Test Plan (ITP) specimen:*

TUNNEL FORM QUALTY PLAN (DOC NO: § 8.2-16-01)

- *Qualification reports of routine tests performed on the whole production (i.e. welding machines, hydraulic test, load test, dielectric test, insulation test, heat treatment...)*

ULTIMATE COMPRESSIVE CAPACITY OF MESA B30 SERIES ADJUSTABLE LENGTH STEEL PROBS: MAY 2015 REPORT NO: 2015/09

ULTIMATE COMPRESSIVE CAPACITY OF MESA D30 SERIES ADJUSTABLE LENGTH STEEL PROBS: MAY 2015 REPORT NO: 2015/07

ULTIMATE COMPRESSIVE CAPACITY OF MESA E30 SERIES ADJUSTABLE LENGTH STEEL PROBS: MAY 2015 REPORT NO: 2015/08

ULTIMATE COMPRESSIVE CAPACITY OF MESA E40 SERIES ADJUSTABLE LENGTH STEEL PROBS: MAY 2015 REPORT NO: 2015/06

ULTIMATE COMPRESSIVE CAPACITY OF MESA B35 SERIES ADJUSTABLE LENGTH STEEL PROBS: JULY 30, 2013 REPORT NO: 2013/21

ULTIMATE COMPRESSIVE CAPACITY OF MESA D30 SERIES ADJUSTABLE LENGTH STEEL PROBS: JULY 30, 2013 REPORT NO: 2013/21

ULTIMATE COMPRESSIVE CAPACITY OF MESA D40 SERIES ADJUSTABLE LENGTH STEEL PROBS: MAY 2015 REPORT NO: 2015/05

EKİM ULTIMATE COMPRESSIVE CAPACITY OF MESA D50 SERIES ADJUSTABLE LENGTH STEEL PROBS: JULY 30, 2013 REPORT NO: 2013/21

ULTIMATE COMPRESSIVE CAPACITY OF MESA E50 SERIES ADJUSTABLE LENGTH STEEL PROBS: JULY 30, 2013 REPORT NO: 2013/21

ULTIMATE TENSILE LOAD CAPACITY OF FRWF CORNER ELEMENTS: OCTOBER 10,2010 REPORT NO: 2010.03.03.1.00.45

FLEXURAL BEHAVIOR OF FRWF PANELS UNDER UNIFORM PRESSURE: MAY 26, 2011 REPORT NO: 2010.03.03.1.00.45

DESIGN OF A 130 M HIGH STEEL CUPLOCK SCAFFOLD: JUNE 2006 PROJECT NO: ODAGEM -06-22-MESA

DEFORMATION AND STRESS ANALYSIS OF MESA STEEL FORMWORK FEBRUARY 2004 REPORT NO: 04.0302.10.01

ULTIMATE TENSILE CAPACITY OF ASYMMETRIC HANGER BOLTS: MAY 13,2011 REPORT NO: 2010.03.03.1.0045

LOAD TEST REPORT NO FOR MESA FLEX TABLE FORM-SHORING SYSTEM: REPORT NO: 14-12-05 JANUARY 2015

LOAD TEST REPORT NO FOR C35 AND B30 SERIES ADJUSTABLE TELESCOPIC PROBS: REPORT NO: 2013-21 JUNE 2013

TENSILE STRENGTH TEST OF RINGED WALL CONNECTOR SCREW SAMPLE REPORT NO: M-105 FERUARY 2015

AL70 PANEL LOAD TEST : APRIL 2015 REPORT NO: 2015/27

AL70 FALL TEST : APRIL 2015 REPORT NO: 2015/26

CUP LOCK VIBRATION TEST : MAY 2015 REPORT NO: TCM/2015/122

CUPLOCK VERTICAL LOADING TEST : MAY 2015 REPORT NO: 2015/39

LOADING TEST FOR AL-STEIR: MAY 2015 REPORT NO: 2015/49

ELASTICAL DEFLECTION TEST FOR AL-70 SCAFFOLDING PLATFORM TEST: AGUST 2015 REPORT NO: 2015/84

LOADING TEST FOR AL-70: AGUST 2015 REPORT NO: 2015/88

DISTURIBUTED LOADING TEST FOR AL-70: AGUST 2015 REPORT NO: 2015/86

UPLOADING TEST FOR CUPLOCK: MAY 2015 REPORT NO: 2015/40

Inspected by:

Name: T.OĞULHAN BARDAKÇI

Signature:



Date of issue: 17.05.2016

Inspection centre: BV TURKEY

Distribution: CLIENT

MANUFACTURER