Certificate No.: 24040619370473

TÜRK LOYDU

TYPE APPROVAL CERTIFICATE

This is to certify that the

Normal Strength and Higher Strength Hull Steel Rolled Products

TL Project No	**23-1205**
Manufacturer	**MAKSTIL A.D**
Address	**UL. 16 MAKEDONSKA BRIGADA BR. 18 - SKOPJE / NORTH MACEDONIA**
Product Type	**TL-A, TL-B, TL-D, TL-E, TL-AH32, TL-DH32, TL-EH32, TL-AH36, TL-DH36, TL-EH36, TL-AH40, TL-DH40 with Z25 and Z35 properties**
Reference Rulev	**TL Rules, Part A, Chapter 2, Material, 01.01.2023v**
Expire Date of Previous Certificate	**-**
Place and Date	**İSTANBUL / 17.04.2024**

Subject to the conditions referred to in the following pages, this certificate is valid until 14.04.2029.

130996

Emrah SÖĞÜTÇÜ

New Building Division Manager

This certificate is subject to terms and conditions described below:

- Any significant change in design or construction may render this Certificate invalid. Type Approval Certificate is not valid for equipment, the design or manufacture of which has been varied or modified from the specimen tested. This certificate is not valid for products without marking above mentioned. The manufacturer should notify TÜRK LOYDU of any modifications or changes to equipment in order to obtain valid certificate. This certificate shows that tested specimens as representative of the product complies of the TÜRK LOYDU rules, and revelant international instruments that apply to it.

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Product	: Normal Strength and Higher Strength Hull Steel Rolled Products
Type of Product	: TL-A, TL-B, TL-D, TL-E, TL-AH32, TL-DH32, TL-EH32, TL-AH36, TL-DH36, TL-EH36, TL-AH40, TL-DH40 with Z25 and Z35 properties
Product Description	: Normal Strength Hull Steel Rolled Plates : TL-A, TL-B, TL-D grades up to 70 mm with Z25 and Z35 properties. Normal Strength Hull Steel Rolled Plates : TL-E grade up to 50 mm with Z25 and Z35 properties. Higher Strength Hull Steel Rolled Plates : TL-AH32, TL-DH32, TL-EH32, TL-AH36 grade up to 70 mm with Z25 and Z35 properties. Higher Strength Hull Steel Rolled Plates : TL-EH32, TL-EH36, TL-AH40, TL-DH40 grade up to 50 mm with Z25 and Z35 properties.
Heat No	: 68955, 492963, 68953, 490489, 57961, 492048. 68956, 492817, 69094, 493059, 54298, 492310, 45216, 492375, 49467, 492460, 52794, 46213, 492311, 52796, 492316
Dimension	: Maximum width : 3050 mm ; Maximum length : Max.: 25000 mm
Condition of Supply	: Normalising Rolling (NR) - Steelmaking : Electric Arc Furnace and Ladle Furnace - Continuous Casting
Performed Tests	: - Visual inspection - Dimension control - Chemical composition - Tensile test in normal condition (L and T direction) - Charpy impact test in normal condition (L and T direction) - Charpy impact test in strain aged condition - Sulphur print - Micrographic examination - Weldability test - Drop weigth test (DWT break condition) for E grade plate - Through thickness properties (high thickness)
Test Place	: MAKSTIL A.D - UL. 16 MAKEDONSKA BRIGADA BR.18 - SKOPJE / NORTH MACEDONIA and SLAVONSKI BROD / CROATIA
Last Inspection Date	: 21.03.2024
Surveyor Remarks	: -
Others	: -
Approval Conditions	: Nornalising Rolling

Surveyor Name : Hasan HABİBOĞLU

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