

Customer<sup>A06</sup>: DUFERCO S.A.  
Customer's order no.<sup>A07</sup>: SO4201009981  
Order No. / Lot No.<sup>A08</sup>: / 6452  
Manufacturer's symbol<sup>A04</sup>: **ŽSK**  
Delivered conditions<sup>B04</sup>: NR - normalizing rolling

## INSPECTION CERTIFICATE No. 711950 6452 001

According to EN 10204 / 2004 : 3.1  
Issued in electronic form

EN 10025-2:2019  
EN 10029:2010 cl.A cl.N  
EN 10163-1-2:2004 cl.A/2

Issued : 02.12.2020

### HOT ROLLED STEEL PLATES

### CHEMICAL COMPOSITION

Heat No.	Steel grade	Item no.	Pieces	Dimensions (mm)			Weight (kg)	C	Si	Mn	P	S	Al	N	Cr	Cu	Ni	Ti	V	Nb	Mo	B	Ca	CEV
				Thickness	Width	Length		10 <sup>-2</sup> %	10 <sup>-2</sup> %	10 <sup>-2</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-2</sup> %	10 <sup>-2</sup> %	10 <sup>-2</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-3</sup> %	10 <sup>-4</sup> %	10 <sup>-4</sup> %
484738	S355J2+N	1	3	5.00	2000	12000	2826	18	24	108	13	5	60	8	11	32	11	1	1	1	1			41
484776	"	1	4	5.00	2000	12000	3768	17	31	116	12	7	45	8	13	26	10	1	1	1	1			42
484843	"	1	3	5.00	2000	12000	2826	18	24	109	15	5	45	8	18	29	10	1	1	1	1			43
484851	"	1	2	5.00	2000	12000	1884	16	23	105	13	5	45	7	12	31	10	1	1	1	1			39
484852	S355J2+N	1	2	5.00	2000	12000	1884	18	26	105	14	5	42	8	12	29	10	1	1	1	1			41

Total :

MANUFACTURING PROCESS: EAF

### PRODUCT IDENTIFICATION

### TENSILE TEST

### IMPACT TEST

### SUPPLEMENTARY REQUIREMENTS

Heat No.	Plate No.	Plate No.	Test No.	Location <sup>2)</sup>		Direction <sup>1)</sup>			Reh <sup>2</sup> N/mm <sup>2</sup>	Rm <sup>2</sup> N/mm <sup>2</sup>	A %	Direction <sup>1)</sup>	Type	Individual values			Mean value J	At °C	Width of tests piece	Direction <sup>1)</sup>				
				C01	C02	C11	C12	C13						C02	C40	1							2	3
																C42							C42	C42
484738	55738-01	55733	55733	1	T	436	574	28.8																
"	56204-01	56204-02	56204	1	T	417	565	28.4																
484776	56210-02	56217-02	56210	1	T	425	567	27.9																
"	56227-01	56227-02																						
484843	56223-02	56226-01	56208	1	T	390	533	29.0																
"	56226-02																							
484851	56224-01	56224-02	56209	1	T	396	548	28.4																
484852	56211-01	56211-02	56142	1	T	400	555	29.4																

Bend test<sup>C50</sup>

Ultra-sonic test<sup>D02</sup> :

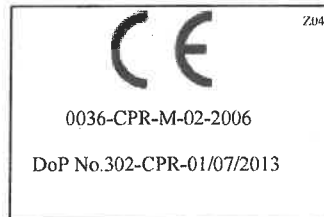
Visual and dimensional inspection : without objection  
We hereby certify, that the delivered material complies with the terms of the order.

<sup>1)</sup> Direction of the test piece : L - longitudinal; T - transverse; Z - in the thickness direction

<sup>2)</sup> Location of the test sample : 1 - top; 2 - bottom

Die-stamp marking :

Makstil's symbol / Grade / Heat No. / Plate No./CS mark



Q.D. 'MAKSTIL' A.D

Q.M.dip.eng I.BOGESKI



RZ TECHNICAL CONTROL A.D. - SKOPJE

tech.manager dipl.Eng.E.Ugrinovska



Z02