

MAKSTIL

16 Makedonska Brigada 18,
1000 Skopje,
Republic of North Macedonia
www.makstil.com



Customer^{A06}: DUFERCO S.A.
Customer's order no.^{A07}: SO4201010136

Order No. / Lot No.^{A08}: / 6539

Manufacturer's symbol^{A04}: ŽSK

Delivered conditions^{B04}: NR - normalizing rolling

INSPECTION CERTIFICATE No. 712203 6539 001

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

EN 10025-2:2019

Technical delivery conditions^{B02}: EN 10029:2010 cl.A; cl.N

EN 10163-1-2:2004 cl.A/2

FM ML.03.40

Pages : 1/3

Issued : 10.12.2020

HOT ROLLED STEEL PLATES								CHEMICAL COMPOSITION																		
Heat No.	Steel grade	Item no.	Pieces	Dimensions (mm)			Weight (kg)	C 10 ⁻² %	Si 10 ⁻² %	Mn 10 ⁻² %	P 10 ⁻³ %	S 10 ⁻³ %	Al 10 ⁻³ %	N 10 ⁻³ %	Cr 10 ⁻² %	Cu 10 ⁻² %	Ni 10 ⁻² %	Ti 10 ⁻³ %	V 10 ⁻³ %	Nb 10 ⁻³ %	Mo 10 ⁻³ %	B 10 ⁻⁴ %	Ca 10 ⁻⁴ %	CEV 10 ⁻² %		
				Thickness	Width	Length																				
483947	S355J2+N	1	2	5.00	2000	8000	17	18	112	23	5	40	7	17	37	11	1	1	1	1	1			43		
484664	"	1	7	5.00	2000	8000	16	23	105	14	9	38	7	10	29	10	1	1	1	1	1			38		
484667	"	1	5	5.00	2000	8000	16	22	105	14	5	45	7	9	26	9	1	1	1	1	1			38		

Total :

MANUFACTURING PROCESS: EAF^{C70}

PRODUCT IDENTIFICATION				TENSILE TEST					IMPACT TEST					SUPPLEMENTARY REQUIREMENTS				
Heat No.	Plate No.	Plate No.	Test No.	Location ²⁾	Direction ¹⁾	Reh ² N/mm ²	Rm ² N/mm ²	A %	Direction ¹⁾	Type	Individual values			Mean value J	At °C	Width of tests piece	Direction ¹⁾	
											1	2	3					
483947	64650-01	64650-02	64644	1	T	411	568	27.9										
484664	64652-01	64652-02	64626	1	T	386	528	29.4										
"	64652-03	64656-01																
"	64656-02	64656-03																
"	64659-03																	
484667	64660-01	64660-03	64647	1	T	403	537	27.7										
"	64661-01	64661-02																
"	64661-03																	

Bend test^{C54}

Ultra-sonic test^{D02} :

Visual and dimensional inspection : without objection
We hereby certify, that the delivered material complies with the terms of the order.^{Z01}

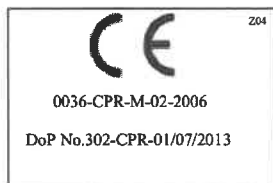
¹⁾Direction of the test piece : L - longitudinal; T - transverse; Z - in the thickness direction

²⁾Location of the test sample : 1 - top; 2 - bottom

Die-stamp marking :

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

MAKSTIL AD - Skopje, ISO 9001:2015 CERTIFIED BY BSI, CERTIFICATE No. FM 55589



Q.D. 'MAKSTIL' A.D

QM.dip.eng LBOGESKI^{A05}



RZ TECHNICAL CONTROL A.D. - SKOPJE

tech.manager dipl.Eng.E.Ugrinovska^{Z02}



Laboratory RZ TECHNICAL CONTROL AD - Skopje, ISO 9001:2015 CERTIFIED BY LRQA, CERTIFICATE IDENTITY No. 10079523

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

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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 ⁻² %	10 ⁻² %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻² %	10 ⁻² %	10 ⁻² %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻³ %	10 ⁻⁴ %	10 ⁻⁴ %	10 ⁻² %
485112	S355J2+N	1	3	5.00	2000	8000	1884	17	23	106	12	8	55	8	10	25	10	1	1	1	1			39
483947	"	2	5	5.00	2000	12000	4710	17	18	112	23	5	40	7	17	37	11	1	1	1	1			43
484664	"	2	3	5.00	2000	12000	2826	16	23	105	14	9	38	7	10	29	10	1	1	1	1			38
484667	"	2	2	5.00	2000	12000	1884	16	22	105	14	5	45	7	9	26	9	1	1	1	1			38

Total : MANUFACTURING PROCESS: EAF

PRODUCT IDENTIFICATION				TENSILE TEST					IMPACT TEST					SUPPLEMENTARY REQUIREMENTS			
Heat No.	Plate No.	Plate No.	Test No.	Reh N/mm ²	Rm N/mm ²	A %	Direction	Type	Individual values			Mean value J	At °C	Width of tests piece	Direction		
									1	2	3						
485112	64668-01	64668-02	64623	389	526	27.9	1	T									
"	64668-03																
483947	64651-01	64651-02	64644	411	568	27.9	1	T									
"	64657-01	64657-02															
"	64658-01																
484664	64648-01	64653-01	64626	386	528	29.4	1	T									
"	64653-02																
484667	64640-01	64640-02	64625	423	541	28.4	1	T									

Bend test

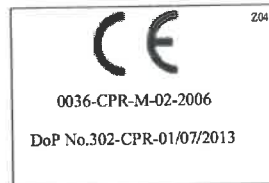
Ultra-sonic test

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

¹⁾Direction of the test piece : L - longitudinal; T - transverse; Z - in the thickness direction
²⁾Location of the test sample : 1 - top; 2 - bottom

Die-stamp marking :
Makstil's symbol / Grade / Heat No. / Plate No./CS mark

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484670	S355J2+N	2	1	5.00	2000	12000	942	17	21	105	14	5	35	8	9	27	9	1	1	1	1			39
Total :		28					21038	MANUFACTURING PROCESS: EAF																

PRODUCT IDENTIFICATION				TENSILE TEST					IMPACT TEST					SUPPLEMENTARY REQUIREMENTS				
Heat No.	Plate No.	Plate No.	Test No.	Location ²⁾	Direction ¹⁾	Reh N/mm ²	Rm N/mm ²	A %	Direction ¹⁾	Type	Individual values			Mean value J	At °C	Width of tests piece	Direction ¹⁾	
											1	2	3					
484670	64654-02		64628	1	T	417	542	28.4										

Bend test ^{C30}

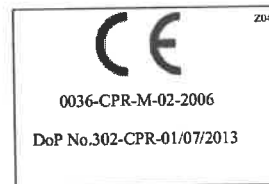
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Visual and dimensional inspection : without objection
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