



DEMİR ÇELİK SAN. VE TİC. A.Ş.

YEŞİL MAHALLE SANAYİ BÖLGESİ NO:50 78000 KARABÜK, TÜRKİYE

MILL TEST CERTIFICATE

THE INSPECTION CERTIFICATE AS PER EN 10204 CLAUSE 3.1 CONFORMING TO THE DEFINITION IN EN 10168

DATE:13.03.2021

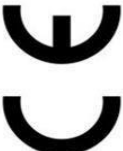
REF:1210005

CUSTOMER:TO WHOM IT MAY CONCERN

CERTIFICATE NO:518-2021

COMMODITY:HOT ROLLED STEEL FLAT BARS HOT ROLLED STEEL ROUND BARS HOT ROLLED STEEL EQUAL ANGLES HOT ROLLED STEEL I BEAMS HOT ROLLED STEEL U CHANNELS

				MECHANICAL PROPERTIES										CHEMICAL COMPOSITION																			
				TENSION TEST				CHARPY TEST(1)		BEND TEST				RE-BEND TEST		FATIGUE TEST		PRODUCT ANALYSIS															
TEST PIECES NO	HEAT NUMBER:	PRODUCT NAME	SIZE IN MM				QUALITY	YIELD S. (Re)		TENSILE S.(Rm)	Rm / Re	ELONGATION	TEST PIECES WIDTH (mm)	VALUE (JOULE)	BEND TEST	RE-BEND TEST	FATIGUE TEST	C	Si	Mn	P	S	Ti	Cu	Ni	Cr	Mo	V	Al	W	Nb	N	CARBON EQUIVALENT
			N/mm2	%	%	%		%	%																								
1	2101074	EQUAL ANGLES	30.0	x	30.0	x	3.0	S235JR	-	332.6	469.0	1.41	27.1	-	-	-	-	0.09	0.18	0.56	0.020	0.029	0.000	0.30	0.14	0.13	0.032	0.0034	0.004	0.005	0.007	0.011	0.24
2	2101091	EQUAL ANGLES	50.0	x	50.0	x	5.0	S355JR	-	319.1	471.4	1.48	29.1	-	-	-	-	0.12	0.18	0.51	0.024	0.038	0.000	0.24	0.09	0.10	0.024	0.0036	0.005	0.005	0.002	0.008	0.25
3	2101104	EQUAL ANGLES	60.0	x	60.0	x	6.0	S235JR	-	341.2	469.0	1.37	27.1	-	-	-	-	0.11	0.18	0.50	0.011	0.027	0.000	0.20	0.09	0.09	0.028	0.0026	0.005	0.005	0.002	0.009	0.24
4	2101104	EQUAL ANGLES	60.0	x	60.0	x	6.0	S235JR	-	341.2	469.0	1.37	27.1	-	-	-	-	0.11	0.18	0.50	0.011	0.027	0.000	0.20	0.09	0.09	0.028	0.0026	0.005	0.005	0.002	0.009	0.24
5	2001388	EQUAL ANGLES	80.0	x	80.0	x	8.0	S355JR	-	339.2	460.3	1.36	29.4	-	-	-	-	0.14	0.20	0.52	0.020	0.030	0.000	0.30	0.11	0.15	0.024	0.0029	0.004	0.005	0.001	0.010	0.29
6	2100732	EQUAL ANGLES	100.0	x	100.0	x	10.0	S235JR	-	302.0	421.1	1.39	32.2	-	-	-	-	0.09	0.19	0.52	0.009	0.040	0.000	0.26	0.08	0.06	0.015	0.0028	0.005	0.005	0.006	0.008	0.22
7	2101019	FLAT BARS			40.0	x	5.0	S235JR	-	295.6	455.6	1.54	32.2	-	-	-	-	0.11	0.18	0.53	0.012	0.038	0.000	0.15	0.16	0.12	0.030	0.003	0.007	0.005	0.002	0.009	0.25
8	2001152	FLAT BARS			40.0	x	8.0	S235JR	-	331.3	465.3	1.40	26.4	-	-	-	-	0.11	0.19	0.51	0.016	0.038	0.000	0.22	0.14	0.12	0.031	0.0031	0.005	0.005	0.001	0.009	0.25
9	2011235	FLAT BARS			40.0	x	10.0	S235JR	-	297.4	420.5	1.41	32.1	-	-	-	-	0.10	0.18	0.53	0.018	0.027	0.000	0.11	0.14	0.08	0.026	0.0033	0.005	0.005	0.001	0.008	0.23
10	2023255	FLAT BARS			50.0	x	30.0	S235JR	-	319.4	461.2	1.44	32.5	-	-	-	-	0.10	0.21	0.52	0.017	0.038	0.000	0.19	0.16	0.16	0.050	0.0037	0.006	0.0058	0.006	0.008	0.25
11	2003029	FLAT BARS			60.0	x	6.0	S235JR	-	352.8	474.6	1.35	28.6	-	-	-	-	0.14	0.20	0.52	0.025	0.035	0.000	0.25	0.12	0.18	0.026	0.0044	0.005	0.005	0.007	0.008	0.29
12	2032599	FLAT BARS			60.0	x	10.0	S235JR	-	327.5	457.0	1.40	29.0	-	-	-	-	0.11	0.21	0.54	0.019	0.038	0.000	0.30	0.11	0.12	0.026	0.0033	0.004	0.005	0.005	0.009	0.26
13	2003601	FLAT BARS			60.0	x	15.0	S235JR	-	380.5	502.3	1.32	31.1	-	-	-	-	0.17	0.19	0.91	0.037	0.039	0.005	0.02	0.02	0.03	0.010	0.014	0.007	0.013	0.004	0.008	0.34
14	2013130	FLAT BARS			80.0	x	15.0	S235JR	-	285.7	439.6	1.54	34.0	-	-	-	-	0.10	0.19	0.50	0.038	0.030	0.000	0.14	0.16	0.23	0.031	0.0038	0.006	0.005	0.002	0.010	0.26
15	2021503	FLAT BARS			100.0	x	10.0	S235JR	-	311.1	451.2	1.45	31.8	-	-	-	-	0.10	0.18	0.53	0.021	0.038	0.000	0.27	0.13	0.20	0.025	0.0032	0.006	0.005	0.002	0.010	0.26
16	2043695	FLAT BARS			120.0	x	10.0	S235JR	-	314.2	448.9	1.43	35.6	-	-	-	-	0.11	0.19	0.52	0.028	0.036	0.004	0.21	0.13	0.20	0.009	0.0036	0.005	0.0055	0.001	0.009	0.26
17	232913	ROUND BARS					O	12.0	S355JR	-	301.2	446.0	1.48	34.1	-	-	-	0.09	0.16	0.47	0.010	0.028	0.002	0.30	0.12	0.10	0.021	0.012	0.007	0.016	0.002	0.004	0.20
18	2000209	ROUND BARS					O	16.0	S355JR	-	320.3	455.0	1.42	31.6	-	-	-	0.10	0.20	0.53	0.018	0.030	0.001	0.15	0.10	0.14	0.026	0.0044	0.005	0.005	0.001	0.009	0.24
19	2000209	ROUND BARS					O	16.0	S355JR	-	320.3	455.0	1.42	31.6	-	-	-	0.10	0.20	0.53	0.018	0.030	0.001	0.15	0.10	0.14	0.026	0.0044	0.005	0.005	0.001	0.009	0.24
20	2015350	ROUND BARS					O	50.0	S355JR	-	330.6	430.1	1.30	30.8	-	-	-	0.11	0.19	0.59	0.020	0.030	0.004	0.21	0.14	0.16	0.010	0.0064	0.006	0.004	0.007	0.008	0.27
21	2014787	ROUND BARS					O	50.0	S235JR	-	335.2	462.3	1.38	32.6	-	-	-	0.12	0.19	0.52	0.014	0.036	0.000	0.14	0.10	0.07	0.020	0.0034	0.005	0.005	0.001	0.007	0.24
22	2014880	ROUND BARS					O	60.0	S235JR	-	318.8	431.6	1.35	30.6	-	-	-	0.09	0.19	0.51	0.019	0.030	0.000	0.17	0.11	0.10	0.024	0.0026	0.004	0.005	0.006	0.008	0.21
23	2100520	U CHANNELS					UPN	120.0	S235JR	-	313.6	446.7	1.42	29.3	-	-	-	0.10	0.22	0.51	0.020	0.036	0.000	0.30	0.11	0.09	0.021	0.0025	0.004	0.005	0.007	0.008	0.24
24	2002427	U CHANNELS					UPN	160.0	S235JR	-	350.3	451.4	1.29	26.8	-	-	-	0.08	0.20	0.54	0.016	0.024	0.000	0.26	0.12	0.11	0.023	0.0036	0.004	0.005	0.007	0.010	0.23
25	2003439	U CHANNELS					UPN	65.0	S235JR	-	337.4	436.6	1.30	29.2	-	-	-	0.15	0.15	0.63	0.017	0.023	0.003	0.22	0.12	0.12	0.009	0.0007	0.006	0.0001	0.007	0.009	0.30
26	2100310	I BEAMS					IPE	100.0	S235JR	-	329.6	436.5	1.33	34.3	-	-	-	0.11	0.19	0.51	0.019	0.033	0.004	0.27	0.12	0.12	0.009	0.004	0.004	0.0028	0.000	0.009	0.25
27	2100272	I BEAMS					IPE	120.0	S235JR	-	293.3	432.2	1.47	33.9	-	-	-	0.12	0.21	0.50	0.012	0.038	0.004	0.31	0.12	0.05	0.006	0.0023	0.006	0.0001	0.002	0.008	0.23



9001:2015



9001:2015



27001:2013



SIRIM

CE NUMBER:2344-CPR-0004

acc. to audit report numbered 17270-09-01/ÇÜ

ISO 9001:2015 Certificate No: QMS 19270-01

ISO 27001:2013 Certificate No: 190801059001

SIRIM (Certified to MS EN 10025-2:2011)

Certification Number: PC000941 / PC000942

WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE

(1) VALUES ARE FOR KV150 TEST UNDER ROOM TEMPERATURE

(2) "L" MEANS "LOGITUDINAL" "T" MEANS "TRANSVERSE"

(3) PRODUCTION, ROLLING TOLERANCE AND ANY OTHER DETAILS ARE AS PER ABOVE REFERENCED CONTRACT

MANUFACTURER

 MESCIER DEMİR ÇELİK SAN. VE TİC. A.Ş. YEŞİL MAHALLE SANAYİ BÖLGESİ NO:50 78000 KARABÜK, TÜRKİYE	MILL TEST CERTIFICATE		DATE:	13.03.2021
	THE INSPECTION CERTIFICATE AS PER EN 10204 CLAUSE 3.1 CONFORMING TO THE DEFINITION IN EN 10168		REF:	1210005

CUSTOMER:	TO WHOM IT MAY CONCERN	CERTIFICATE NO:	518-2021
		COMMODITY:	HOT ROLLED STEEL FLAT BARS HOT ROLLED STEEL ROUND BARS HOT ROLLED STEEL EQUAL ANGLES HOT ROLLED STEEL I BEAMS HOT ROLLED STEEL U CHANNELS

		MECHANICAL PROPERTIES		CHEMICAL COMPOSITION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TEST PIECES NO	HEAT NUMBER:	PRODUCT NAME	SIZE IN MM	QUALITY	TENSION TEST				CHARPY TEST(1)		BEND TEST		RE-BEND TEST		FATIGUE TEST		CARBON EQUIVALENT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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 9001:2015 International Organization for Standardization	 27001:2013 International Organization for Standardization	 SIRIM	CE NUMBER:2344-CPR-0004 acc. to audit report numbered 17270-09-01/ÇÜ ISO 9001:2015 Certificate No: QMS 19270-01 ISO 27001:2013 Certificate No: 190801059001 SIRIM (Certified to MS EN 10025-2:2011) Certification Number: PC000941 / PC000942	WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTANCE (1) VALUES ARE FOR KV150 TEST UNDER ROOM TEMPERATURE (2) "L" MEANS "LONGITUDINAL" "T" MEANS "TRANSVERSE" (3) PRODUCTION, ROLLING TOLERANCE AND ANY OTHER DETAILS ARE AS PER ABOVE REFERENCED CONTRACT	MANUFACTURER