


PAGE/ SEITE 1	CUSTOMER/ KUNDE SERFAS SUOMI OY	DESTINATION/ BESTIMMUNGSSORT C/OLEINONEN SUOMI OY MALMINKAARI 23 A	DATE/ DATUM 07/07/2023
ORDER/ AUFTRAG 23/3986/1	STANDARD/ NORM NS 3576-3 / NF A35-080-1 / SS 212540 / Z-1.2-281 / BRL0501 + NEN 6008 / NBN A 24-301 / SFS 1300	DENOMINATION/ SORTE B 500 NC / B 500 B / BE 500 S / K 500 C- TR	GRADE/ TYYPINTI TR




**MEGASA**  
SN SEIXAL - SIDERURGIA NACIONAL S.A.  
2840-906 Aldeia de Paio Pires - Seixal - Portugal  
Tel: +351 212 278 500 Fax: +351 212 278 505

REMARKS/  
ANMERKUNGEN


Dimensions in mm  
Abmessungen in mm

Ro and Rm in MPa (N/mm<sup>2</sup>)  
Re und Rm in MPa (N/mm<sup>2</sup>)  
Elongation and Agt, %


N°/NUMBER	CAST/ SCHWELZE	CHEMICAL COMPOSITION OF THE STEEL IN % OF: / CHEMISCHE ZUSAMMENSETZUNG DES STAHLS IN %										MEASUREMENT OF RIBS/ RIPPENGEOMETRIE					TENSILE TESTS/ ZUGFESTIGKEITSPRÜFUNG				
		C	P	S	Cu	Si	Mn	N	Ceq	h	c	PSC	IR	%WI	Re	Rm	Rm/Re	%A	Agt	BEND-REBEND/ B-R	
647771/1	10 SPOOL	0.22	0.030	0.023	0.42	0.18	1.07	0.009	0.48	0.71	6.7	3.1	0.071	0.0	558	684	1.22	22.6	11.3	S/Z	
647773/1	10 SPOOL	0.22	0.028	0.028	0.42	0.21	1.04	0.009	0.48	0.72	6.7	2.9	0.071	-0.3	558	684	1.23	22.7	10.1	S/Z	
647774/1	10 SPOOL	0.20	0.034	0.010	0.43	0.17	1.01	0.008	0.46	0.74	6.7	2.9	0.073	-0.4	567	686	1.23	23.5	11.0	S/Z	
647776/1	10 SPOOL	0.21	0.033	0.008	0.43	0.19	1.04	0.008	0.47	0.74	6.7	3.1	0.074	0.1	567	684	1.23	23.2	11.0	S/Z	




Certificate N°  
PROD - 086




CERTIFICAT FERRAILLAGE  
ACIERS POUR BETON ARMÉ  
CERT N° B11/262




BENOR 21  
NBN A 24-301+P1018




10781




kiwa  
Korea Certified  
Korea Certified



K63431



CERT N° 1811



IDENTIFICATION MARKS/  
ERKENNUNGSSZEICHEN

QUALITY DEPARTMENT/  
QUALITÄTSPRÜFUNG

*Orlho*  
*Vasconcelos*

INSPECTION CERTIFICATE 3.1. - EN 10204/ZERTIFIKAT DER PROBE 3.1. NACH EN 10204

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PAGE/ SEITE 1	CUSTOMER/ KUNDE SERFAS SUOMI OY	DESTINATION/ BESTIMMUNGSSORT C/OLEINONEN SUOMI OY MALMINKAARI 23 A
ORDER/ AUFTRAG 23/3988/1	STANDARD/ NORM DIN 488-2 / SFS 1300 / NS 3576-3 / SS 212540 / EN 10080	GRADE/ TYP(PART) B 500 B / B 500 NC / K 500 C-T
	DENOMINATION/ SORTE	DATE/ DATUM 05/07/2023

REMARKS/ ANMERKUNGEN
Dimensions in mm/ Abmessungen in mm
Re and Rm in MPa (N/mm <sup>2</sup> ) Re und Rm in MPa (N/mm <sup>2</sup> )
Elongation and Agt %




**MEGASA**  
MEGASA SIDERURGICA S.L.  
Ctra. de Castilla, 802-820 - 15570 Narón - A Coruña - España  
Tel.: +34 981 399 000 - Fax: +34 981 399 004


N° NUMBER	CAST/ SCHMELZE	LENGTH/ LÄNGE	CHEMICAL COMPOSITION OF THE STEEL IN % OF:										MEASUREMENT OF RIBS/ RIPPENGEOMETRIE							TENSILE TESTS/ ZUGFESTIGKEITSPRÜFUNG				
			C	P	S	Cu	Si	Mn	N	Ceq	h	c	PSC	IR	%WI	Re	Rm	Rm/Re	%A	Agt	BEND-REBEND/ B-R			
211230/2	10	12000	0.21	0.016	0.029	0.42	0.18	0.98	0.010	0.44	0.85	6.4	2.8	0.081	-2.1	551	665	1.21	26.2	11.7	SIZ			
212573/1	10	6000	0.21	0.020	0.027	0.38	0.15	0.97	0.011	0.44	0.87	6.4	2.4	0.084	-3.2	547	652	1.19	23.3	11.9	SIZ			
213398/3	10	12000	0.21	0.014	0.033	0.41	0.14	1.00	0.008	0.46	0.83	6.4	2.9	0.078	-1.6	567	674	1.19	23.9	11.1	SIZ			
213555/3	10	12000	0.21	0.013	0.035	0.33	0.17	1.01	0.010	0.45	0.85	6.4	3.2	0.080	-1.6	554	664	1.20	24.0	11.5	SIZ			
213556/1	10	12000	0.22	0.010	0.034	0.35	0.17	1.01	0.009	0.45	0.83	6.3	2.6	0.080	-1.5	559	663	1.19	24.5	13.3	SIZ			
213557/3	10	12000	0.21	0.011	0.025	0.30	0.17	1.06	0.009	0.45	0.84	6.4	2.4	0.081	-0.7	583	682	1.17	23.4	11.2	SIZ			
213559/3	10	12000	0.21	0.008	0.034	0.28	0.15	1.04	0.009	0.45	0.82	6.3	2.4	0.080	-1.6	559	664	1.19	23.0	11.8	SIZ			
213559/2/5	10	6000	0.20	0.016	0.031	0.35	0.15	0.88	0.010	0.44	0.87	6.4	2.1	0.085	-1.8	575	681	1.19	22.8	11.8	SIZ			
213558/3	10	6000	0.21	0.013	0.033	0.39	0.14	0.95	0.009	0.43	0.87	6.4	2.4	0.084	-1.6	550	653	1.19	24.0	11.9	SIZ			
213686/3	10	6000	0.21	0.011	0.037	0.36	0.14	0.99	0.009	0.44	0.86	6.3	2.3	0.084	-1.6	551	647	1.18	24.1	10.4	SIZ			
214503/1	10	12000	0.20	0.015	0.033	0.41	0.19	1.00	0.008	0.44	0.83	6.4	2.5	0.080	-2.4	567	664	1.17	25.0	11.9	SIZ			




INSPECTION L.  
SERVIZIO  
N° 9924



SBS  
CERT N° A1/013



STF  
N° 9924



IDENTIFICATION MARKS/  
ERKENNUNGSZEICHEN

QUALITY DEPARTMENT/  
QUALITÄTSABTEILUNG

