

Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Page 1 of 10
Date of creation: (Z02) 16.01.2020
Certificate No.: (A03) 105801/1

Our order No.: (A08) 9309671 Your order No.: (A07) P077153 Order registration date: 11.11.2019 Date of dispatch: 16.01.2020 B

Material requirements and customer information

Product: (A03) Plate **Steel standard and grade:** (B02) EN10025-2:2004 S355K2 **Surface tolerance:** EN 10163-2 B3

Delivery condition: (B04) Normalized rolled (+N) **Length tolerance:** EN 10029 Table 3

Customer name and address (A06) **Certificate address**
 4102 4102001
 BE Group Oy AB certificates@begroup.fi;
 BOX 54 Finland
 15101 LAHTI
 Finland CERTIFICATES@BEGROUP.FI

Thickness tolerance: EN 10029 Class A
Flatness tolerance: EN 10029 Table 4 Class N

Supplementary information: (C04)
 Fully Killed and Fine Grain

Visual examination and dimensional checking: Satisfactory. The results of tests performed are in compliance with the requirements. (Z01)

Details of supplied materials dimensions, weights and pieces

Heat/Slab (B07)	Plate No. (B06)	Item	Thickness mm (B09)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location (B99)	Customer remark (B99)
56215H1	0766G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
55966H3	0775G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5614511	1028G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593815	1928G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593813	1930G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593814	1968G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593812	1970G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593811	1973G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593713	1976G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593712	1979G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153



Inspection representative NLMK DanSteel A/S (A05)
 Zibrandt Greisen Z. Swish



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Details of supplied materials dimensions, weights and pieces

Heat/Slab (B07)	Plate No. (B06)	Item	Thickness mm (B09)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location	Customer remark (B99)
5593715	1983G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593714	1986G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5593711	1989G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56170E5	2690G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56152H4	2969G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56152H3	2979G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56152H2	3006G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56151G4	3017G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56147K1	3080G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56146F1	3104G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56171P4	3173G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56171P3	3174G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
5614611	3221G	1	12.0	2000	17700	1	3 335	S355K2+N	Head	P077153
56216C2	0748G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56216E1	0749G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56216E3	0752G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56216C3	0758G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56216E2	0759G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56119G4	0868G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56146B1	1138G	2	18.0	2100	17700	1	5 252	S355K2+N	Head	P077153
56197G5	0753G	3	20.0	2070	17700	1	5 752	S355K2+N	Head	P077153
5611911	0859G	3	20.0	2070	17700	1	5 752	S355K2+N	Head	P077153
56229E1	2781G	3	20.0	2070	17700	1	5 752	S355K2+N	Head	P077153
56200F1	0921G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153
56197E2	0957G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153
56197E3	0966G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153
56197F2	0972G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153



(A01)

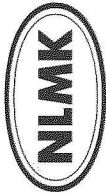
(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swishin



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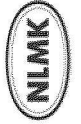
Date of creation: (Z02) 16.01.2020

Certificate No.: (A03) 105801/1

Our order No.: (A08) 9309671 Your order No.: (A07) P077153 Order registration date: 11.11.2019 Date of dispatch: 16.01.2020 B

Details of supplied materials dimensions, weights and pieces

Heat/Slab (B07)	Plate No. (B06)	Item	Thickness mm (B09)	Width mm (B10)	Length mm (B11)	Pieces (B08)	Gross kg (B12)	Hard stamp	Stamp location	Customer remark (B99)
56197E1	0982G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153
56197F3	0983G	4	25.0	2300	17700	1	7 989	S355K2+N	Head	P077153
						39	178 659			



(A01)

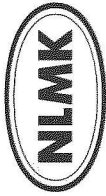


(A04)

DanSteel
Havnevej 33
DK - 3300 Fredensborg

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen



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Order registration date: 11.11.2019

Date of dispatch: 16.01.2020 B

Chemical composition (heat analysis) all results in %

Heat No. (B07)	Set values:											N	B		
	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb			V	Ti
	0.20	1.60	0.55	0.025	0.025	0.300	0.400	0.300	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008
	min.														
	max.														
55937	0.15	1.45	0.20	0.014	0.002	0.024	0.028	0.015	0.002	0.036	0.043	0.002	0.002	0.0043	0.0003
55938	0.15	1.45	0.20	0.011	0.004	0.023	0.047	0.019	0.003	0.036	0.042	0.001	0.002	0.0033	0.0003
55966	0.16	1.44	0.20	0.010	0.003	0.016	0.020	0.011	0.001	0.035	0.019	0.002	0.001	0.0048	0.0003
56119	0.17	1.43	0.32	0.008	0.006	0.024	0.033	0.015	0.001	0.045	0.019	0.001	0.002	0.0056	0.0003
56145	0.16	1.41	0.20	0.014	0.004	0.025	0.080	0.024	0.002	0.037	0.017	0.002	0.002	0.0039	0.0003
56146	0.15	1.46	0.18	0.012	0.005	0.021	0.037	0.019	0.001	0.034	0.044	0.001	0.001	0.0045	0.0003
56147	0.15	1.44	0.19	0.015	0.010	0.024	0.034	0.016	0.001	0.044	0.046	0.002	0.002	0.0036	0.0003
56151	0.15	1.48	0.18	0.012	0.005	0.019	0.038	0.017	0.003	0.036	0.044	0.002	0.002	0.0044	0.0003
56152	0.15	1.47	0.19	0.012	0.003	0.024	0.035	0.016	0.001	0.035	0.046	0.002	0.002	0.0032	0.0003
56170	0.15	1.45	0.21	0.012	0.003	0.024	0.036	0.022	0.002	0.035	0.046	0.001	0.002	0.0037	0.0003
56171	0.15	1.44	0.19	0.012	0.004	0.020	0.034	0.020	0.002	0.038	0.045	0.001	0.002	0.0042	0.0003
56197	0.18	1.43	0.38	0.012	0.002	0.028	0.038	0.018	0.001	0.046	0.018	0.001	0.002	0.0040	0.0004
56200	0.17	1.43	0.34	0.011	0.004	0.019	0.025	0.015	0.001	0.046	0.017	0.001	0.002	0.0034	0.0003
56215	0.17	1.47	0.18	0.012	0.003	0.031	0.036	0.020	0.002	0.036	0.020	0.001	0.001	0.0039	0.0003
56216	0.18	1.43	0.34	0.010	0.002	0.024	0.026	0.014	0.001	0.039	0.018	0.001	0.002	0.0038	0.0004
56229	0.17	1.51	0.20	0.010	0.006	0.022	0.035	0.015	0.001	0.046	0.042	0.001	0.001	0.0040	0.0003

Heat No. (B07) CEV Remark (C70)

Set values:	min.		max.	
		0.40	0.40	0.45

55937	0.40	1346
55938	0.40	1346
55966	0.41	1346
56119	0.42	1346
56145	0.40	1346
56146	0.40	1346
56147	0.39	1346



(A01)

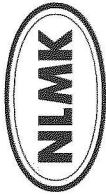
(A04)



Inspection representative NLKM DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin



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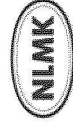
Chemical composition (heat analysis) all results in %

Heat No. (B07)	CEV	min.	max.	Remark (C70)
56151	0.40		0.45	13 4 6
56152	0.40			13 4 6
56170	0.41			13 4 6
56171	0.40			13 4 6
56197	0.43			13 4 6
56200	0.42			13 4 6
56215	0.43			13 4 6
56216	0.42			13 4 6
56229	0.43			13 4 6

Supplementary information (C99)

CEV = C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15

1 = Basic Oxygen Steel, 2 = Electric Arc Furnace, 3 = Ladle Refined, 4 = Calcium Treated, 5 = Vacuum Degassed, 6 = Continuous Cast, 7 = Ingot



DanSteel
Havenvej 33
DK - 3300 Frederiksøvej

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

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Date of creation: (Z02)

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Our order No.: (A08) 9309671

Your order No.: (A07) P077153

Order registration date: 11.11.2019

Date of dispatch: 16.01.2020 B

Tensile testing Tensile tests were performed in accordance with EN 10002/ISO 6892-1 with results as stated below:

Heat/slab (B07)	Plate ID (B06)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
56216C2	0748G-1-1	18.0	R	H	T	413	REH	571	A5	31	0.72
56216E1	0749G-1-1	18.0	R	H	T	413	REH	571	A5	31	0.72
56216E3	0752G-1-1	18.0	R	H	T	413	REH	571	A5	31	0.72
56197G5	0753G-1-1	20.0	R	H	T	434	REH	581	A5	26	0.75
56216C3	0758G-1-1	18.0	R	H	T	403	REH	564	A5	29	0.71
56216E2	0759G-1-1	18.0	R	H	T	413	REH	571	A5	31	0.72
56215H1	0766G-1-1	12.0	R	H	T	438	REH	579	A5	28	0.76
55966H3	0775G-1-1	12.0	R	H	T	405	REH	550	A5	31	0.74
56119I1	0859G-1-1	20.0	R	H	T	428	REH	571	A5	27	0.75
56119G4	0868G-1-1	18.0	R	H	T	428	REH	571	A5	27	0.75
56200F1	0921G-1-1	25.0	R	H	T	398	R02	564	A5	21	0.71
56197E2	0957G-1-1	25.0	R	H	T	442	R02	586	A5	27	0.75
56197E3	0966G-1-1	25.0	R	H	T	442	R02	586	A5	27	0.75
56197F2	0972G-1-1	25.0	R	H	T	442	R02	586	A5	27	0.75
56197E1	0982G-1-1	25.0	R	H	T	442	R02	586	A5	27	0.75
56197F3	0983G-1-1	25.0	R	H	T	434	REH	581	A5	26	0.75
56145I1	1028G-1-1	12.0	R	H	T	415	R02	555	A5	31	0.75
56146B1	1138G-1-1	18.0	R	H	T	409	R02	553	A5	27	0.74
55938I5	1928G-1-1	12.0	R	H	T	470	REH	577	A5	29	0.81
55938I3	1930G-1-1	12.0	R	H	T	470	REH	577	A5	29	0.81
55938I4	1968G-1-1	12.0	R	H	T	470	REH	577	A5	29	0.81
55938I2	1970G-1-1	12.0	R	H	T	470	REH	577	A5	29	0.81
55938I1	1973G-1-1	12.0	R	H	T	470	REH	577	A5	29	0.81
55937I3	1976G-1-1	12.0	R	H	T	443	REH	568	A5	25	0.78
55937I2	1979G-1-1	12.0	R	H	T	443	REH	568	A5	25	0.78



(A01)

(A04)



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Tensile testing

Tensile tests were performed in accordance with EN 10002/ISO 6892-1 with results as stated below:

Heat/slab (B07)	Plate ID (B06)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
5593715	1983G-1-1	12.0	R	H	T	443	REH	568	A5	25	0.78
5593714	1986G-1-1	12.0	R	H	T	443	REH	568	A5	25	0.78
5593711	1989G-1-1	12.0	R	H	T	443	REH	568	A5	25	0.78
56170E5	2690G-1-1	12.0	R	H	T	479	REH	585	A5	31	0.82
56229E1	2781G-1-1	20.0	R	H	T	444	R02	575	A5	25	0.77
56152H4	2969G-1-1	12.0	R	H	T	447	REH	567	A5	29	0.79
56152H3	2979G-1-1	12.0	R	H	T	447	REH	567	A5	29	0.79
56152H2	3006G-1-1	12.0	R	H	T	447	REH	567	A5	29	0.79
56151G4	3017G-1-1	12.0	R	H	T	453	REH	570	A5	25	0.79
56147K1	3080G-1-1	12.0	R	H	T	424	REH	568	A5	29	0.75
56146F1	3104G-1-1	12.0	R	H	T	492	REH	578	A5	25	0.85
56171P4	3173G-1-1	12.0	R	H	T	487	REH	587	A5	27	0.83
56171P3	3174G-1-1	12.0	R	H	T	487	REH	587	A5	27	0.83
56146I1	3221G-1-1	12.0	R	H	T	492	REH	578	A5	25	0.85

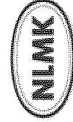
Supplementary information (C39)

Loc.: (C01) H = head, T = tail

Dir.: (C02) T = transversal, L = longitudinal

Shape: (C10) Ø = round, R = rectangular

Original gauge length: 200 mm



DanSteel
Havenvej 33
DK - 3300 Frederiksø

(A01)

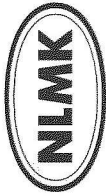


(A04)

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Zibrandt Greisen

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Impact testing Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab (B07)	Plate ID (B06)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV (C42)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
56216C2	0748G-1-1	1	CV	10x10	H	L	-20	205	196	192	198	192	198
56216E1	0749G-1-1	1	CV	10x10	H	L	-20	205	196	192	198	192	198
56216E3	0752G-1-1	1	CV	10x10	H	L	-20	205	196	192	198	192	198
56197G5	0753G-1-1	1	CV	10x10	H	L	-20	185	132	165	161	165	161
56216C3	0758G-1-1	1	CV	10x10	H	L	-20	104	148	158	137	158	137
56216E2	0759G-1-1	1	CV	10x10	H	L	-20	205	196	192	198	192	198
56215H1	0766G-1-1	1	CV	10x10	H	L	-20	230	211	235	225	235	225
55966H3	0775G-1-1	1	CV	10x10	H	L	-20	164	154	108	142	108	142
56119I1	0859G-1-1	1	CV	10x10	H	L	-20	145	141	136	141	136	141
56119G4	0868G-1-1	1	CV	10x10	H	L	-20	182	178	157	172	157	172
56200F1	0921G-1-1	1	CV	10x10	H	L	-20	212	189	174	192	174	192
56197E2	0957G-1-1	1	CV	10x10	H	L	-20	185	132	165	161	165	161
56197E3	0966G-1-1	1	CV	10x10	H	L	-20	185	132	165	161	165	161
56197F2	0972G-1-1	1	CV	10x10	H	L	-20	185	132	165	161	165	161
56197E1	0982G-1-1	1	CV	10x10	H	L	-20	185	132	165	161	165	161
56197F3	0983G-1-1	1	CV	10x10	H	L	-20	177	184	185	182	185	182
56145I1	1028G-1-1	1	CV	10x10	H	L	-20	177	198	193	189	193	189
56146B1	1138G-1-1	1	CV	10x10	H	L	-20	105	146	96	116	96	116
55938I5	1928G-1-1	1	CV	10x10	H	L	-20	194	203	201	199	201	199
55938I3	1930G-1-1	1	CV	10x10	H	L	-20	194	203	201	199	201	199
55938I4	1968G-1-1	1	CV	10x10	H	L	-20	194	203	201	199	201	199
55938I2	1970G-1-1	1	CV	10x10	H	L	-20	194	203	201	199	201	199
55938I1	1973G-1-1	1	CV	10x10	H	L	-20	194	203	201	199	201	199
55937I3	1976G-1-1	1	CV	10x10	H	L	-20	227	218	230	225	230	225
55937I2	1979G-1-1	1	CV	10x10	H	L	-20	227	218	230	225	230	225



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

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Date of creation: (Z02) 16.01.2020

Certificate No.: (A03) 105801/1

Our order No.: (A08) 9309671

Your order No.: (A07) P077153

Order registration date: 11.11.2019

Date of dispatch: 16.01.2020 B

Impact testing

Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab (B07)	Plate ID (B06)	Position (C01)	Notch (C40)	Shape (C41)	Loc. (C01)	Dir. (C02)	Temp. °C (C03)	SV J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
5593715	1983G-1-1	1	CV	10x10	H	L	-20	227	218	230	225
5593714	1986G-1-1	1	CV	10x10	H	L	-20	227	218	230	225
5593711	1989G-1-1	1	CV	10x10	H	L	-20	227	218	230	225
56170E5	2690G-1-1	1	CV	10x10	H	L	-20	231	230	223	228
56229E1	2781G-1-1	1	CV	10x10	H	L	-20	172	135	145	151
56152H4	2969G-1-1	1	CV	10x10	H	L	-20	224	234	236	231
56152H3	2979G-1-1	1	CV	10x10	H	L	-20	224	234	236	231
56152H2	3006G-1-1	1	CV	10x10	H	L	-20	224	234	236	231
56151G4	3017G-1-1	1	CV	10x10	H	L	-20	146	154	143	148
56147K1	3080G-1-1	1	CV	10x10	H	L	-20	142	152	127	140
56146F1	3104G-1-1	1	CV	10x10	H	L	-20	209	204	205	206
56171P4	3173G-1-1	1	CV	10x10	H	L	-20	159	139	148	149
56171P3	3174G-1-1	1	CV	10x10	H	L	-20	159	139	148	149
56146I1	3221G-1-1	1	CV	10x10	H	L	-20	209	204	205	206

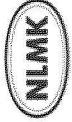
Supplementary Information (C39)

Position: (C01) 1 = surface, 2 = middle, 3 = 1/3 of thickness, 4 = 1/4 of thickness

Notch: (C40) CU = Charpy U-notch, CV = Charpy V-notch, CVA = Charpy V-notch (ASTM)

Loc.: (C01) H = head, T = tail

Dir.: (C02) T = transversal, L = longitudinal



DanSteel
Havenvej 33
DK - 3300 Frederiksø

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen



Europe – Plate

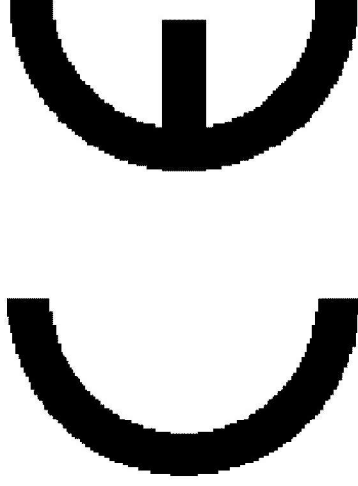
Inspection Certificate ^(A02)

EN 10204:2004/3.1

Page 10 of 10
Date of creation: ^(Z02) 16.01.2020
Certificate No.: ^(A03) 105801/1

Our order No.: ^(A08) 9309671 **Your order No.:** ^(A07) P077153 **Order registration date:** 11.11.2019 **Date of dispatch:** 16.01.2020 **B**

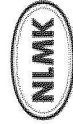
We hereby certify that the material has been made and tested in accordance with the mentioned specification(s), Certified according to Construction Products Regulations (305/2011/EU) by TÜV NORD Systems GmbH (Notified Body Reg. No. 0045). For Declaration of Performance please see www.DanSteel.dk and DoP number 010CPR2013-07-01.



TÜV-NORD 0045-CPR-0554
Year of initial inspection: 2005

Intended use: Welded, bolted and riveted structures.

Our products are Cobalt, Gold, Mercury free and are free of radioactive substances and do not exceed the clearing limit value of 100 Bg/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex II, Section 5) for ferrous nuclides.
Manufactured in Denmark



DanSteel ^(A01)
Havenvej 33
DK - 3300 Frederiksøer



Inspection representative NLMK DanSteel A/S ^(A05)

Zibrandt Greisen

Information description

acc. to EN 10168

A	Commercial transactions and parties involved	
	A01 Manufacturer's works	
	A02 Type of inspection document	
	A03 Document number	
	A04 Manufacturer's mark	
	A05 Originator of the inspection document	
	A06 Customer consignee	
	A07 Purchaser's order number and, where applicable, item number	
	A08 Manufacturer's works order number	
	A09 Customer article number	
	A10 to A99 Supplementary information	
B	Description of Products	
	B01 Product	
	B02 Steel designation	
	B03 Any supplementary requirements	
	B04 Product delivery condition	
	B05 Reference (heat) treatment of samples	
	B06 Marking of the product	
	B07 Identification of the product	
	B08 Number of pieces	
	B09 to B11 Product dimensions	
	B12 Theoretical mass	
	B13 Actual mass	
	B14 to B99 Supplementary information	
C	Inspection	
	C00 Identification of the sample	
	C01 Location of the sample	
	C02 Direction of the test pieces	
	C03 Test temperature	
	C04 to C09 Supplementary information	
	C10 Shape of the test piece	
	C11 Yield or proof strength	
	C12 Tensile strength	
	C13 Elongation after fracture	
	C14 to C29 Supplementary information	
	C30 Method of test	
	C31 Individual values	
	C32 Mean value	
	C33 to C39 Supplementary information	
	C40 Type of test piece	
	C41 Width of test piece	
	C42 Individual values	
	C43 Mean value	
	C44 to C49 Supplementary information	
	C50 to C69 Supplementary information	
	C70 Steelmaking process	
	C71 to C92 Chemical composition	
	C93 to C99 Supplementary information	
D	Other tests	
	D01 Marking and identification, surface appearance, shape and dimensional properties	
	D02 to D50 Non-destructive tests	
	D51 to D99 Supplementary information	
Z	Validation	
	Z01 Statement of compliance	
	Z02 Date of issue and validation	
	Z03 Stamp of the inspection representative	
	Z04 CE marking	
	Z05 to Z99 Supplementary information	