



Europe - Plate

Inspection Certificate (A02)

EN 10204:2004/3.1

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Date of creation: (Z02)

12.10.2018

Certificate No.: (A03)

085555/2

Our order No.: (A08) 8269551

Your order No.: (A07) 1112161

Order registration date: 16.08.2018

Date of dispatch: 12.10.2018 B

Material requirements and customer information

Product: (A03) Plate Steel standard and grade: (B02) EN10025-2:2004 S355K2

Surface tolerance: EN 10163-2 A2

Delivery condition: (B04) Normalized rolled (+N)

Length tolerance: EN 10029 Table 3

Customer name and address (A06)

Certificate address

4118

4118001

OY Kontino AB

osto@kontino.fi

PL 27

a.faktarauskas@eu.nlmk.com

01301 VANTAA



Kontino Oy Ab

Finland

Finland

Width tolerance: EN 10029 Table 2

Thickness tolerance: EN 10029 Class A

Flatness tolerance: EN 10029 Table 4 Class N

a.faktarauskas@eu.nlmk.com;osto@kontino.fi

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	Customer remark (B99)
53184A3	5073L	1	10.0	2000	6000	4	3 768	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184F2	5119L	1	10.0	2000	6000	4	3 768	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184G2	5123L	1	10.0	2000	6000	4	3 768	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184G1	5124L	1	10.0	2000	6000	4	3 768	S355K2+N	Head	1112161EN10025-2:2004 7.85
53183F4	5131L	1	10.0	2000	6000	4	3 768	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184A4	5072L	2	10.0	2500	6000	3	3 534	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184A2	5074L	2	10.0	2500	6000	2	2 356	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184F4	5117L	2	10.0	2500	6000	1	1 178	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184F1	5120L	2	10.0	2500	6000	2	2 356	S355K2+N	Head	1112161EN10025-2:2004 7.85
53183H1	5130L	2	10.0	2500	6000	2	2 356	S355K2+N	Head	1112161EN10025-2:2004 7.85

DanSteel
Havnevej 33
DK - 3300 Frederiksværk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



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Inspection Certificate (A02)

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12.10.2018

Certificate No.: (A03)

085555/2

Our order No.: (A08) 8269551

Your order No.: (A07) 1112161

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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)
53183F3	5132L	2	10.0	2500	6000	3	3 534	S355K2+N	Head	1112161EN10025-2:2004 7.85
53182Q5	5320L	2	10.0	2500	6000	2	2 356	S355K2+N	Head	1112161EN10025-2:2004 7.85
53184M5	5325L	2	10.0	2500	6000	3	3 534	S355K2+N	Head	1112161EN10025-2:2004 7.85
53334I1	5585L	2	10.0	2500	6000	2	2 356	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764B5	5449L	3	15.0	2000	6000	2	2 826	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764B2	5511L	3	15.0	2000	6000	3	4 239	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764D5	5519L	3	15.0	2000	6000	3	4 239	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764B1	5512L	4	15.0	2500	9000	2	5 298	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764D3	5568L	4	15.0	2500	9000	2	5 298	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764B4	5484L	5	18.0	2000	6000	4	6 784	S355K2+N	Head	1112161EN10025-2:2004 7.85
53764D4	5520L	5	18.0	2000	6000	4	6 784	S355K2+N	Head	1112161EN10025-2:2004 7.85
						60	77 868			

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Chemical composition (heat analysis) all results in %

Heat No. (B07)	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.		0.15							0.020					
	max.	0.20	1.60	0.25	0.025	0.025	0.300	0.400	0.300	0.080	0.100	0.060	0.100	0.050	0.0120 0.0008
53182		0.16	1.51	0.18	0.008	0.006	0.025	0.017	0.015	0.002	0.033	0.036	0.001	0.001	0.0047 0.0003
53183		0.18	1.51	0.19	0.009	0.004	0.014	0.013	0.008	0.001	0.045	0.040	0.001	0.002	0.0047 0.0003
53184		0.17	1.48	0.19	0.014	0.009	0.024	0.034	0.017	0.003	0.040	0.038	0.001	0.001	0.0045 0.0003
53334		0.18	1.53	0.19	0.012	0.003	0.027	0.040	0.021	0.005	0.041	0.018	0.001	0.002	0.0037 0.0003
53764		0.16	1.47	0.19	0.014	0.007	0.022	0.034	0.015	0.004	0.043	0.017	0.001	0.001	0.0036 0.0005

Heat No. (B07)	CEV	Remark (C70)
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Set values:	min.	
	max.	0.45
53182	0.42	1 3 4 6
53183	0.43	1 3 4 6
53184	0.43	1 3 4 6
53334	0.44	1 3 4 6
53764	0.42	1 3 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



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Date of dispatch: 12.10.2018 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
53184A4	5072L-1-1	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A4	5072L-1-2	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A4	5072L-2-1	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A3	5073L-1-1	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A3	5073L-1-2	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A3	5073L-2-1	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A3	5073L-2-2	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A2	5074L-1-1	10.0	R	H	T	484	REH	593	A5	26	0.82
53184A2	5074L-1-2	10.0	R	H	T	484	REH	593	A5	26	0.82
53184F4	5117L-2-1	10.0	R	H	T	484	REH	594	A5	27	0.81
53184F2	5119L-1-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184F2	5119L-1-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184F2	5119L-2-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184F2	5119L-2-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184F1	5120L-1-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184F1	5120L-1-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G2	5123L-1-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G2	5123L-1-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G2	5123L-2-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G2	5123L-2-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G1	5124L-1-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G1	5124L-1-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G1	5124L-2-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184G1	5124L-2-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53183H1	5130L-1-1	10.0	R	H	T	498	REH	605	A5	28	0.82

DanSteel
Høvnavej 33
DK - 3300 Fredensborg

(A01)



(A04)

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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
53183H1	5130L-1-2	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F4	5131L-1-1	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F4	5131L-1-2	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F4	5131L-2-1	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F4	5131L-2-2	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F3	5132L-1-1	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F3	5132L-1-2	10.0	R	H	T	459	REH	577	A5	29	0.80
53183F3	5132L-2-1	10.0	R	H	T	459	REH	577	A5	29	0.80
53182Q5	5320L-1-1	10.0	R	H	T	461	REH	582	A5	31	0.79
53182Q5	5320L-1-2	10.0	R	H	T	461	REH	582	A5	31	0.79
53184M5	5325L-1-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184M5	5325L-2-1	10.0	R	H	T	484	REH	601	A5	28	0.81
53184M5	5325L-2-2	10.0	R	H	T	484	REH	601	A5	28	0.81
53764B5	5449L-1-1	15.0	R	H	T	421	REH	579	A5	32	0.73
53764B5	5449L-1-2	15.0	R	H	T	421	REH	579	A5	32	0.73
53764B4	5484L-1-1	18.0	R	H	T	438	REH	569	A5	28	0.77
53764B4	5484L-1-2	18.0	R	H	T	438	REH	569	A5	28	0.77
53764B4	5484L-2-1	18.0	R	H	T	413	R02	559	A5	30	0.74
53764B4	5484L-2-2	18.0	R	H	T	413	R02	559	A5	30	0.74
53764B2	5511L-1-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53764B2	5511L-1-2	15.0	R	H	T	441	REH	575	A5	29	0.77
53764B2	5511L-2-2	15.0	R	H	T	441	REH	575	A5	29	0.77
53764B1	5512L-1-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53764B1	5512L-2-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53764D5	5519L-1-1	15.0	R	H	T	441	REH	575	A5	29	0.77



DanSteel
Havnevej 33
DK - 5300 Frederiksværk

(A01)



(A04)

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53764D5	5519L-2-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53764D5	5519L-2-2	15.0	R	H	T	441	REH	575	A5	29	0.77
53764D4	5520L-1-1	18.0	R	H	T	438	REH	569	A5	28	0.77
53764D4	5520L-1-2	18.0	R	H	T	438	REH	569	A5	28	0.77
53764D4	5520L-2-1	18.0	R	H	T	438	REH	569	A5	28	0.77
53764D4	5520L-2-2	18.0	R	H	T	438	REH	569	A5	28	0.77
53764D3	5568L-1-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53764D3	5568L-2-1	15.0	R	H	T	441	REH	575	A5	29	0.77
53334I1	5585L-1-1	10.0	R	H	T	447	REH	590	A5	26	0.76
53334I1	5585L-1-2	10.0	R	H	T	447	REH	590	A5	26	0.76

Supplementary Information (C99)

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

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

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

Original gauge length: 200 mm



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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 J (C42)	SV J (C42)	SV J (C42)	AV J (C43)
53184A4	5072L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A4	5072L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A4	5072L-2-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A3	5073L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A3	5073L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A3	5073L-2-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A3	5073L-2-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A2	5074L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184A2	5074L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F4	5117L-2-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F2	5119L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F2	5119L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F2	5119L-2-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F2	5119L-2-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F1	5120L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184F1	5120L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184G2	5123L-1-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184G2	5123L-1-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184G2	5123L-2-1	1	CV	7.5x10	H	L	-20	91	81	88	87
53184G2	5123L-2-2	1	CV	7.5x10	H	L	-20	91	81	88	87
53184G1	5124L-1-1	1	CV	7.5x10	H	L	-20	99	91	96	95
53184G1	5124L-1-2	1	CV	7.5x10	H	L	-20	99	91	96	95
53184G1	5124L-2-1	1	CV	7.5x10	H	L	-20	99	91	96	95
53184G1	5124L-2-2	1	CV	7.5x10	H	L	-20	99	91	96	95
53183H1	5130L-1-1	1	CV	7.5x10	H	L	-20	109	137	112	119

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(A01)



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Date of dispatch: 12.10.2018 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)
53183H1	5130L-1-2	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F4	5131L-1-1	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F4	5131L-1-2	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F4	5131L-2-1	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F4	5131L-2-2	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F3	5132L-1-1	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F3	5132L-1-2	1	CV	7.5x10	H	L	-20	109	137	112	119
53183F3	5132L-2-1	1	CV	7.5x10	H	L	-20	109	137	112	119
53182Q5	5320L-1-1	1	CV	7.5x10	H	L	-20	89	87	84	87
53182Q5	5320L-1-2	1	CV	7.5x10	H	L	-20	89	87	84	87
53184M5	5325L-1-1	1	CV	7.5x10	H	L	-20	99	91	96	95
53184M5	5325L-2-1	1	CV	7.5x10	H	L	-20	99	91	96	95
53184M5	5325L-2-2	1	CV	7.5x10	H	L	-20	99	91	96	95
53764B5	5449L-1-1	1	CV	10x10	H	L	-20	191	190	189	190
53764B5	5449L-1-2	1	CV	10x10	H	L	-20	191	190	189	190
53764B4	5484L-1-1	1	CV	10x10	H	L	-20	165	173	170	169
53764B4	5484L-1-2	1	CV	10x10	H	L	-20	165	173	170	169
53764B4	5484L-2-1	1	CV	10x10	H	L	-20	165	173	170	169
53764B4	5484L-2-2	1	CV	10x10	H	L	-20	165	173	170	169
53764B2	5511L-1-1	1	CV	10x10	H	L	-20	179	144	172	165
53764B2	5511L-1-2	1	CV	10x10	H	L	-20	179	144	172	165
53764B2	5511L-2-2	1	CV	10x10	H	L	-20	191	190	189	190
53764B1	5512L-1-1	1	CV	10x10	H	L	-20	179	144	172	165
53764B1	5512L-2-1	1	CV	10x10	H	L	-20	179	144	172	165
53764D5	5519L-1-1	1	CV	10x10	H	L	-20	179	144	172	165

DanSteel
Havnevej 33
DK - 3300 Frederiksværk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate (A02)

EN 10204:2004/3.1

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Date of creation: (Z02)

12.10.2018

Certificate No.: (A03)

085555/2

Our order No.: (A08) 8269551

Your order No.: (A07) 1112161

Order registration date: 16.08.2018

Date of dispatch: 12.10.2018 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)
53764D5	5519L-2-1	1	CV	10x10	H	L	-20	179	144	172	165
53764D5	5519L-2-2	1	CV	10x10	H	L	-20	179	144	172	165
53764D4	5520L-1-1	1	CV	10x10	H	L	-20	170	140	164	158
53764D4	5520L-1-2	1	CV	10x10	H	L	-20	170	140	164	158
53764D4	5520L-2-1	1	CV	10x10	H	L	-20	165	173	170	169
53764D4	5520L-2-2	1	CV	10x10	H	L	-20	170	140	164	158
53764D3	5568L-1-1	1	CV	10x10	H	L	-20	179	144	172	165
53764D3	5568L-2-1	1	CV	10x10	H	L	-20	179	144	172	165
53334I1	5585L-1-1	1	CV	7.5x10	H	L	-20	100	120	102	107
53334I1	5585L-1-2	1	CV	7.5x10	H	L	-20	100	120	102	107

Supplementary Information (C99)**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 = longitudinalDanSteel
Havnevej 33
DK - 3300 Frederiksvaerk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 10 of 10

Date of creation: (Z02)

12.10.2018

Certificate No.: (A03)

085555/2

Our order No.: (A08) 8269551

Your order No.: (A07) 1112161

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Date of dispatch: 12.10.2018 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 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StriSchV) for the unrestricted clearance of solid material (StriSchV Annex III, Section 5) for ferrous nuclides.
Manufactured in Denmark.



DanSteel
Havnevej 33
DK - 3300 Frederiksværk

(A01)



(A04)

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