



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 2 of 18
Date of creation: (Z02) 25.01.2018
Certificate No.: (A03) 07482012

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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)
52473D3	8978A	3	18.0	2000	6000	4	6 784	S355K2+N	Head	1111416
52480A5	8910A	4	20.0	2000	6000	1	1 884	S355K2+N	Head	1111416
52480A3	8916A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480A4	8920A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52480A2	8926A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52480D5	9004A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480D4	9014A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52414C6	9015A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52408A2	9137A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52408A4	9164A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480B2	9377A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480C3	9394A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480C4	9430A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480C1	9431A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52480C2	9450A	4	20.0	2000	6000	4	7 536	S355K2+N	Head	1111416
52480B3	9456A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52480B4	9457A	4	20.0	2000	6000	3	5 652	S355K2+N	Head	1111416
52403H3	7859A	5	20.0	2500	6000	2	4 710	S355K2+N	Head	1111416
52398J3	7868A	6	20.0	2500	9000	1	3 533	S355K2+N	Head	1111416
52411B3	8049A	6	20.0	2500	9000	1	3 533	S355K2+N	Head	1111416
52398I3	8768A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52398E3	8795A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52408I4	8852A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52408I3	8855A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52411F3	9138A	6	20.0	2500	9000	1	3 533	S355K2+N	Head	1111416
52477A5	9220A	6	20.0	2500	9000	2	7 066	S355K2+N	Head	1111416
52570I2	4126B	8	25.0	2000	6000	1	2 355	S355K2+N	Head	1111416



DanSteel
Havnvej 33
DK - 3300 Frederiksberg

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

EN 10204:2004/3.1

(A02)

Date of creation: (Z02)

25.01.2018

074820/2

Our order No.: (A06) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

Details of supplied materials dimensions, weights and pieces

Heav/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)
52414C2	8997A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52414C5	8998A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52414C1	9007A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52411J1	9008A	8	25.0	2000	6000	2	4 710	S355K2+N	Head	1111416
52411J2	8909A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52411J4	8917A	9	25.0	2500	6000	3	8 832	S355K2+N	Head	1111416
52473D5	8967A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
52408A3	9163A	9	25.0	2500	6000	1	2 944	S355K2+N	Head	1111416
52411F2	9249A	9	25.0	2500	6000	2	5 888	S355K2+N	Head	1111416
						129	248 786			



DanSteel

Harsten 33
DK - 3350 Froslevsvej

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

2. Greisen



Europe – Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 4 of 18
Date of creation: (Z02) 25.01.2018
Certificate No.: (A03) 074820/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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
52398	0.15	1.51	0.16	0.012	0.011	0.024	0.036	0.020	0.003	0.035	0.003	0.043	0.001	0.0080	0.0002
52403	0.15	1.49	0.18	0.009	0.009	0.030	0.028	0.022	0.003	0.039	0.003	0.046	0.001	0.0081	0.0003
52408	0.16	1.50	0.19	0.009	0.011	0.026	0.034	0.026	0.001	0.041	0.003	0.044	0.002	0.0100	0.0003
52411	0.15	1.49	0.18	0.011	0.009	0.034	0.033	0.023	0.001	0.038	0.003	0.044	0.001	0.0080	0.0002
52414	0.15	1.51	0.17	0.010	0.015	0.022	0.035	0.017	0.003	0.035	0.003	0.043	0.001	0.0106	0.0003
52473	0.14	1.46	0.18	0.008	0.008	0.018	0.031	0.018	0.002	0.038	0.003	0.045	0.001	0.0083	0.0002
52476	0.14	1.45	0.19	0.013	0.006	0.017	0.019	0.014	0.001	0.037	0.004	0.043	0.001	0.0074	0.0003
52477	0.13	1.41	0.19	0.012	0.007	0.029	0.039	0.031	0.004	0.042	0.003	0.044	0.001	0.0068	0.0003
52480	0.14	1.46	0.20	0.013	0.009	0.024	0.028	0.021	0.002	0.035	0.003	0.048	0.001	0.0080	0.0003
52569	0.14	1.47	0.19	0.007	0.004	0.019	0.039	0.023	0.003	0.041	0.004	0.044	0.001	0.0072	0.0003
52570	0.13	1.40	0.19	0.006	0.007	0.022	0.037	0.027	0.003	0.049	0.004	0.046	0.001	0.0071	0.0003
52571	0.14	1.44	0.18	0.009	0.008	0.023	0.039	0.024	0.003	0.041	0.003	0.046	0.001	0.0085	0.0003

Heat No. (B07)

CEV

Remark (C70)

Set values: min. max. 0.45

52398	0.42	1 3 4 6
52403	0.42	1 3 4 6
52408	0.42	1 3 4 6
52411	0.42	1 3 4 6
52414	0.41	1 3 4 6
52473	0.39	1 3 4 6
52476	0.39	1 3 4 6
52477	0.38	1 3 4 6
52480	0.40	1 3 4 6
52569	0.40	1 3 4 6
52570	0.38	1 3 4 6



DanSteel
Härensås 33
DK - 3300 Frederikssund
(A01)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

EN 10204:2004/3.1

Our order No.: (A06) 724824.1 Your order No.: (A07) 111416 Order registration date: 07.12.2017 Date of dispatch: 25.01.2018 B

Chemical composition (heat analysis) all results in %

Heat No.: (A07)	CEV	Remark: (C70)
Set values:	min. max.	
	0.45	

52571 0.40 1346

Supplementary information (C69)

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
11.00000.03
OK - 3200 Proverbalysma



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) 25.01.2018
Certificate No.: (A03) 07482012

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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 (B08)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52460D1	0258B-2-2	12.0	R	H	T	412	REH	542	A5	29	0.76
52476L4	0869B-1-1	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L4	0869B-1-2	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L4	0869B-2-1	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L4	0869B-2-2	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L3	0886B-1-1	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L3	0886B-1-2	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L3	0886B-2-1	10.0	R	H	T	407	REH	523	A5	31	0.78
52476L3	0886B-2-2	10.0	R	H	T	407	REH	523	A5	31	0.78
52571H4	3842B-1-1	10.0	R	H	T	433	REH	544	A5	34	0.80
52571H4	3842B-1-2	10.0	R	H	T	433	REH	544	A5	34	0.80
52571H4	3842B-2-1	10.0	R	H	T	433	REH	544	A5	34	0.80
52571H4	3842B-2-2	10.0	R	H	T	433	REH	544	A5	34	0.80
52569E4	3873B-1-1	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E4	3873B-1-2	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E4	3873B-2-1	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E4	3873B-2-2	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E3	3874B-1-1	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E3	3874B-1-2	10.0	R	H	T	429	REH	548	A5	30	0.78
52569E3	3874B-2-2	10.0	R	H	T	429	REH	548	A5	30	0.78
52570I2	4126B-2-1	25.0	R	H	T	425	REH	525	A5	26	0.81
52403H3	7859A-1-1	20.0	R	H	T	407	R02	550	A5	26	0.74
52403H3	7859A-1-2	20.0	R	H	T	407	R02	550	A5	26	0.74
52398J3	7868A-1-1	20.0	R	H	T	410	R02	546	A5	26	0.75
52411B3	8049A-2-1	20.0	R	H	T	413	REH	551	A5	28	0.75



DanSteel

Material 33
DK - 3300 Pressed plates

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02)

25.01.2018

Certificate No.: (A03)

074820/2

Our order No.: (A06) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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

Heat/lab (A07)	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
52398I3	8768A-1-1	20.0	R	H	T	410	R02	546	A5	26	0.75
52398I3	8768A-2-1	20.0	R	H	T	410	R02	546	A5	26	0.75
52398E3	8795A-1-1	20.0	R	H	T	410	REH	546	A5	24	0.75
52398E3	8795A-2-1	20.0	R	H	T	410	REH	546	A5	24	0.75
52398E1	8797A-1-1	12.0	R	H	T	421	REH	542	A5	30	0.78
52398E1	8797A-1-2	12.0	R	H	T	421	REH	542	A5	30	0.78
52398E1	8797A-2-1	12.0	R	H	T	421	REH	542	A5	30	0.78
52398E1	8797A-2-2	12.0	R	H	T	421	REH	542	A5	30	0.78
52408I4	8852A-1-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408I4	8852A-2-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408I3	8855A-1-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408I3	8855A-2-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52411J2	8909A-1-1	25.0	R	H	T	426	REH	550	A5	30	0.77
52411J2	8909A-1-2	25.0	R	H	T	426	REH	550	A5	30	0.77
52480A5	8910A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A3	8916A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A3	8916A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A3	8916A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A3	8916A-2-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52411J4	8917A-1-1	25.0	R	H	T	426	REH	550	A5	30	0.77
52411J4	8917A-1-2	25.0	R	H	T	426	REH	550	A5	30	0.77
52411J4	8917A-2-1	25.0	R	H	T	426	REH	550	A5	30	0.77
52480A4	8920A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A4	8920A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A4	8920A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75



DanSteel
Harnessed 32
DN - 3300 Produktionswerk



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

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Date of creation: (202) 25.01.2018
Certificate No.: (A03) 07482012

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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

Heatlab (B07)	Plate ID (B08)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52480A2	8926A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A2	8926A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480A2	8926A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52473D5	8967A-1-1	25.0	R	H	T	403	REH	526	A5	25	0.77
52473D5	8967A-1-2	25.0	R	H	T	403	REH	526	A5	25	0.77
52473D3	8978A-1-1	18.0	R	H	T	403	REH	526	A5	25	0.77
52473D3	8978A-1-2	18.0	R	H	T	403	REH	526	A5	25	0.77
52473D3	8978A-2-1	18.0	R	H	T	403	REH	526	A5	25	0.77
52473D3	8978A-2-2	18.0	R	H	T	403	REH	526	A5	25	0.77
52414C2	8997A-1-1	25.0	R	H	T	407	R02	535	A5	30	0.76
52414C2	8997A-1-2	25.0	R	H	T	407	R02	535	A5	30	0.76
52414C5	8998A-1-1	25.0	R	H	T	407	R02	535	A5	30	0.76
52414C5	8998A-1-2	25.0	R	H	T	407	R02	535	A5	30	0.76
52480D5	9004A-1-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D5	9004A-1-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D5	9004A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D5	9004A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52414C1	9007A-1-1	25.0	R	H	T	407	R02	535	A5	30	0.76
52414C1	9007A-1-2	25.0	R	H	T	407	R02	535	A5	30	0.76
52411J1	9008A-1-1	25.0	R	H	T	426	REH	550	A5	30	0.77
52411J1	9008A-1-2	25.0	R	H	T	426	REH	550	A5	30	0.77
52480D4	9014A-1-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D4	9014A-1-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D4	9014A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480D4	9014A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75



DanSteel
Havens 3.5
DN - 3300 Frederiksmeer



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

(A02)

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Date of creation: (Z02) 25.01.2018
Certificate No.: (A03) 07482012

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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

Heat/lab (B07)	Plate ID (B08)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52414C6	9015A-1-1	20.0	R	H	T	407	R02	535	A5	30	0.76
52414C6	9015A-1-2	20.0	R	H	T	407	R02	535	A5	30	0.76
52414C6	9015A-2-1	20.0	R	H	T	407	R02	535	A5	30	0.76
52414C4	9057A-1-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C4	9057A-1-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C4	9057A-2-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C4	9057A-2-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C3	9069A-1-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C3	9069A-1-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C3	9069A-2-1	12.0	R	H	T	428	REH	552	A5	28	0.78
52414C3	9069A-2-2	12.0	R	H	T	428	REH	552	A5	28	0.78
52408A2	9137A-1-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408A2	9137A-1-2	20.0	R	H	T	390	R02	540	A5	23	0.72
52408A2	9137A-2-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408A2	9137A-2-2	20.0	R	H	T	390	R02	540	A5	23	0.72
52411F3	9138A-1-1	20.0	R	H	T	407	R02	549	A5	26	0.74
52408A3	9163A-2-1	25.0	R	H	T	390	R02	540	A5	23	0.72
52408A4	9164A-1-1	20.0	R	H	T	395	R02	537	A5	22	0.74
52408A4	9164A-1-2	20.0	R	H	T	395	R02	537	A5	22	0.74
52408A4	9164A-2-1	20.0	R	H	T	390	R02	540	A5	23	0.72
52408A4	9164A-2-2	20.0	R	H	T	390	R02	540	A5	23	0.72
52477A5	9220A-1-1	20.0	R	H	T	393	REH	515	A5	31	0.76
52477A5	9220A-1-2	20.0	R	H	T	393	REH	515	A5	31	0.76
52411F2	9249A-1-1	25.0	R	H	T	407	R02	549	A5	26	0.74
52411F2	9249A-1-2	25.0	R	H	T	407	R02	549	A5	26	0.74



DanSteel
Inspection 33
DK - 3300 Frederiksborg

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

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Date of creation: (202)

25.01.2018

Certificate No.: (A03)

074820/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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 (B08)	Thickness mm	Shape (C10)	Loc. (C01)	Dir. (C02)	Yield MPa (C11)	Yield type	UTS Rm MPa (C12)	Elong. type	Elongation % (C13)	Yield/UTS
52411F1	9361A-1-1	12.0	R	H	T	416	REH	540	A5	31	0.77
52411F1	9361A-1-2	12.0	R	H	T	416	REH	540	A5	31	0.77
52411F1	9361A-2-1	12.0	R	H	T	428	REH	545	A5	28	0.79
52411F1	9361A-2-2	12.0	R	H	T	416	REH	540	A5	31	0.77
52480B2	9377A-1-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480B2	9377A-1-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480B2	9377A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480B2	9377A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C3	9394A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C3	9394A-1-2	20.0	R	H	T	396	REH	524	A5	26	0.76
52480C3	9394A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C3	9394A-2-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C4	9430A-1-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C4	9430A-1-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C4	9430A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C4	9430A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C1	9431A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C1	9431A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C1	9431A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480C1	9431A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C2	9450A-1-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C2	9450A-1-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C2	9450A-2-1	20.0	R	H	T	395	R02	525	A5	30	0.75
52480C2	9450A-2-2	20.0	R	H	T	395	R02	525	A5	30	0.75
52480B3	9456A-1-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480B3	9456A-1-2	20.0	R	H	T	394	REH	530	A5	28	0.74



DanSteel

(A01)



(A04)

Inspection representative NL MK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



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Date of creation: 25.01.2018
Certificate No.: 07482012

Our order No.: 7248241 Your order No.: 1111416 Order registration date: 07.12.2017 Date of dispatch: 25.01.2018 B

Tensile testing

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

Heat/slab	Plate ID	Thickness	Shape	Loc.	Dir.	Yield	Yield	UTS Rm	Elong.	Elongation	Yield/UTS
(B07)	(B06)	mm	(C10)	(C01)	(C02)	MPa (C11)	type	MPa (C12)	type	% (C13)	
52480B3	9456A-2-1	20.0	R	H	T	394	REH	530	A5	28	0.74
52480B4	9457A-1-1	20.0	R	H	T	396	REH	524	A5	26	0.76
52480B4	9457A-1-2	20.0	R	H	T	396	REH	524	A5	26	0.76
52480B4	9457A-2-1	20.0	R	H	T	396	REH	524	A5	26	0.76

Supplementary information
Loc.: (C01) H = head, T = tail
Dir.: (C02) T = transversal, L = longitudinal
Shape: (C10) Ø = round, R = rectangular
Original gauge length: 200 mm



DanSteel
Harnes 33
DK - 3300 Fredriksværk



Inspection representative NLMK DanSteel A/S
Zibbrandt Greisen
Z. Greisen



Europe – Plate

Inspection Certificate

EN 10204:2004/3.1

(A02)

Certificate No.: (A03)

074820/2

Date of creation: (Z02)

25.01.2018

Our order No.: (A05) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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)
52480D1	02588-2-2	1	CV	10x10	H	L	-20	160	162	173	165
52476L4	08698-1-1	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L4	08698-1-2	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L4	08698-2-1	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L4	08698-2-2	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L3	08868-1-1	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L3	08868-1-2	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L3	08868-2-1	1	CV	7.5x10	H	L	-20	134	126	33	98
52476L3	08868-2-2	1	CV	7.5x10	H	L	-20	134	126	33	98
52571H4	38428-1-1	1	CV	7.5x10	H	L	-20	90	77	35	67
52571H4	38428-1-2	1	CV	7.5x10	H	L	-20	90	77	35	67
52571H4	38428-2-1	1	CV	7.5x10	H	L	-20	90	77	35	67
52571H4	38428-2-2	1	CV	7.5x10	H	L	-20	90	77	35	67
52569E4	38738-1-1	1	CV	7.5x10	H	L	-20	145	184	171	167
52569E4	38738-1-2	1	CV	7.5x10	H	L	-20	145	184	171	167
52569E4	38738-2-1	1	CV	7.5x10	H	L	-20	145	184	171	167
52569E4	38738-2-2	1	CV	7.5x10	H	L	-20	145	184	171	167
52569E3	38748-1-1	1	CV	7.5x10	H	L	-20	159	151	148	153
52569E3	38748-1-2	1	CV	7.5x10	H	L	-20	159	151	148	153
52569E3	38748-2-2	1	CV	7.5x10	H	L	-20	159	151	148	153
52570I2	41268-2-1	1	CV	10x10	H	L	-20	204	202	203	203
52403H3	7859A-1-1	1	CV	10x10	H	L	-20	77	131	147	118
52403H3	7859A-1-2	1	CV	10x10	H	L	-20	77	131	147	118
52398J3	7868A-1-1	1	CV	10x10	H	L	-20	122	117	92	110
52411B3	8049A-2-1	1	CV	10x10	H	L	-20	132	146	55	111



DanSteel

Harved 32
DK - 3300 Fredensborg

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe – Plate

Inspection Certificate

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Date of creation: (202)

25.01.2018

Certificate No.: (A03)

074820/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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)
52398I3	8768A-1-1	1	CV	10x10	H	L	-20	122	117	92	110
52398I3	8768A-2-1	1	CV	10x10	H	L	-20	122	117	92	110
52398E3	8795A-1-1	1	CV	10x10	H	L	-20	113	47	123	94
52398E3	8795A-2-1	1	CV	10x10	H	L	-20	113	47	123	94
52398E1	8797A-1-1	1	CV	10x10	H	L	-20	134	120	105	120
52398E1	8797A-1-2	1	CV	10x10	H	L	-20	134	120	105	120
52398E1	8797A-2-1	1	CV	10x10	H	L	-20	134	120	105	120
52398E1	8797A-2-2	1	CV	10x10	H	L	-20	134	120	105	120
52408I4	8852A-1-1	1	CV	10x10	H	L	-20	144	157	165	155
52408I4	8852A-2-1	1	CV	10x10	H	L	-20	144	157	165	155
52408I3	8855A-1-1	1	CV	10x10	H	L	-20	144	157	165	155
52408I3	8855A-2-1	1	CV	10x10	H	L	-20	144	157	165	155
52411J2	8909A-1-1	1	CV	10x10	H	L	-20	117	137	126	127
52411J2	8909A-1-2	1	CV	10x10	H	L	-20	117	137	126	127
52480A5	8910A-1-2	1	CV	10x10	H	L	-20	167	159	199	175
52480A3	8916A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480A3	8916A-1-2	1	CV	10x10	H	L	-20	167	159	199	175
52480A3	8916A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52480A3	8916A-2-2	1	CV	10x10	H	L	-20	167	159	199	175
52411J4	8917A-1-1	1	CV	10x10	H	L	-20	117	137	126	127
52411J4	8917A-1-2	1	CV	10x10	H	L	-20	117	137	126	127
52411J4	8917A-2-1	1	CV	10x10	H	L	-20	117	137	126	127
52480A4	8920A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480A4	8920A-1-2	1	CV	10x10	H	L	-20	167	159	199	175
52480A4	8920A-2-1	1	CV	10x10	H	L	-20	176	217	211	201



DanSteel

Heat-treated 32
DN - 3200 Fmk-3200mk

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

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Date of creation: (Z02) 25.01.2018
Certificate No.: (A03) 074820/2

Our order No.: (A09) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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 (B05)	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)
52480A2	8926A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480A2	8926A-1-2	1	CV	10x10	H	L	-20	167	159	199	175
52480A2	8926A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52473D5	8967A-1-1	1	CV	10x10	H	L	-20	186	208	195	196
52473D5	8967A-1-2	1	CV	10x10	H	L	-20	186	208	195	196
52473D3	8978A-1-1	1	CV	10x10	H	L	-20	186	208	195	196
52473D3	8978A-1-2	1	CV	10x10	H	L	-20	186	208	195	196
52473D3	8978A-2-1	1	CV	10x10	H	L	-20	186	208	195	196
52473D3	8978A-2-2	1	CV	10x10	H	L	-20	186	208	195	196
52414C2	8997A-1-1	1	CV	10x10	H	L	-20	151	155	187	164
52414C2	8997A-1-2	1	CV	10x10	H	L	-20	151	155	187	164
52414C5	8998A-1-1	1	CV	10x10	H	L	-20	151	155	187	164
52414C5	8998A-1-2	1	CV	10x10	H	L	-20	151	155	187	164
52480D5	9004A-1-1	1	CV	10x10	H	L	-20	176	217	211	201
52480D5	9004A-1-2	1	CV	10x10	H	L	-20	176	217	211	201
52480D5	9004A-2-1	1	CV	10x10	H	L	-20	176	217	211	201
52480D5	9004A-2-2	1	CV	10x10	H	L	-20	176	217	211	201
52414C1	9007A-1-1	1	CV	10x10	H	L	-20	151	155	187	164
52414C1	9007A-1-2	1	CV	10x10	H	L	-20	151	155	187	164
52411J1	9008A-1-1	1	CV	10x10	H	L	-20	117	137	126	127
52411J1	9008A-1-2	1	CV	10x10	H	L	-20	117	137	126	127
52480D4	9014A-1-1	1	CV	10x10	H	L	-20	176	217	211	201
52480D4	9014A-1-2	1	CV	10x10	H	L	-20	176	217	211	201
52480D4	9014A-2-1	1	CV	10x10	H	L	-20	176	217	211	201
52480D4	9014A-2-2	1	CV	10x10	H	L	-20	176	217	211	201



DanSteel
Harnwell 33
DK - 5300 Fredensborg



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



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Date of creation: (z02)

25.01.2018

Certificate No.: (A03)

074820/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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

Heats/lab (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)
52414C6	9015A-1-1	1	CV	10x10	H	L	-20	151	155	187	164
52414C6	9015A-1-2	1	CV	10x10	H	L	-20	151	155	187	164
52414C6	9015A-2-1	1	CV	10x10	H	L	-20	151	155	187	164
52414C4	9057A-1-1	1	CV	10x10	H	L	-20	74	65	83	74
52414C4	9057A-1-2	1	CV	10x10	H	L	-20	74	65	83	74
52414C4	9057A-2-1	1	CV	10x10	H	L	-20	74	65	83	74
52414C4	9057A-2-2	1	CV	10x10	H	L	-20	74	65	83	74
52414C3	9069A-1-1	1	CV	10x10	H	L	-20	74	65	83	74
52414C3	9069A-1-2	1	CV	10x10	H	L	-20	74	65	83	74
52414C3	9069A-2-1	1	CV	10x10	H	L	-20	74	65	83	74
52414C3	9069A-2-2	1	CV	10x10	H	L	-20	74	65	83	74
52408A2	9137A-1-1	1	CV	10x10	H	L	-20	144	157	165	155
52408A2	9137A-1-2	1	CV	10x10	H	L	-20	144	157	165	155
52408A2	9137A-2-1	1	CV	10x10	H	L	-20	144	157	165	155
52408A2	9137A-2-2	1	CV	10x10	H	L	-20	144	157	165	155
52411F3	9138A-1-1	1	CV	10x10	H	L	-20	159	128	127	138
52408A3	9163A-2-1	1	CV	10x10	H	L	-20	144	157	165	155
52408A4	9164A-1-1	1	CV	10x10	H	L	-20	161	183	190	178
52408A4	9164A-1-2	1	CV	10x10	H	L	-20	161	183	190	178
52408A4	9164A-2-1	1	CV	10x10	H	L	-20	144	157	165	155
52408A4	9164A-2-2	1	CV	10x10	H	L	-20	144	157	165	155
52477A5	9220A-1-1	1	CV	10x10	H	L	-20	174	187	173	178
52477A5	9220A-1-2	1	CV	10x10	H	L	-20	174	187	173	178
52411F2	9249A-1-1	1	CV	10x10	H	L	-20	159	128	127	138
52411F2	9249A-1-2	1	CV	10x10	H	L	-20	159	128	127	138



DanSteel
Harnessed 33
DK - 3300 Fredrikshavn

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



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Date of creation: (202) 25.01.2018
Certificate No.: (A03) 074820/2

Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 B

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

Heat/lab (B07)	Plate ID (B08)	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)
52411F1	9361A-1-1	1	CV	10x10	H	L	-20	144	125	152	140
52411F1	9361A-1-2	1	CV	10x10	H	L	-20	144	125	152	140
52411F1	9361A-2-1	1	CV	10x10	H	L	-20	144	125	152	140
52411F1	9361A-2-2	1	CV	10x10	H	L	-20	144	125	152	140
52480B2	9377A-1-1	1	CV	10x10	H	L	-20	176	217	211	201
52480B2	9377A-1-2	1	CV	10x10	H	L	-20	176	217	211	201
52480B2	9377A-2-1	1	CV	10x10	H	L	-20	176	217	211	201
52480B2	9377A-2-2	1	CV	10x10	H	L	-20	176	217	211	201
52480C3	9394A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480C3	9394A-1-2	1	CV	10x10	H	L	-20	195	182	146	174
52480C3	9394A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52480C3	9394A-2-2	1	CV	10x10	H	L	-20	167	159	199	175
52480C4	9430A-1-1	1	CV	10x10	H	L	-20	176	217	211	201
52480C4	9430A-1-2	1	CV	10x10	H	L	-20	176	217	211	201
52480C4	9430A-2-1	1	CV	10x10	H	L	-20	176	217	211	201
52480C4	9430A-2-2	1	CV	10x10	H	L	-20	176	217	211	201
52480C1	9431A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480C1	9431A-1-2	1	CV	10x10	H	L	-20	167	159	199	175
52480C1	9431A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52480C1	9431A-2-2	1	CV	10x10	H	L	-20	167	159	199	175
52480C2	9450A-1-1	1	CV	10x10	H	L	-20	176	217	211	201
52480C2	9450A-1-2	1	CV	10x10	H	L	-20	176	217	211	201
52480C2	9450A-2-1	1	CV	10x10	H	L	-20	176	217	211	201
52480C2	9450A-2-2	1	CV	10x10	H	L	-20	176	217	211	201
52480B3	9456A-1-1	1	CV	10x10	H	L	-20	167	159	199	175
52480B3	9456A-1-2	1	CV	10x10	H	L	-20	167	159	199	175



DanSteel

Hardest 35
DN 330 FPM/450mm

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

EN 10204:2004/3.1

Date of creation: (A02)
Certificate No.: (A03)

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Our order No.: (A06) 7248241

Your order No.: (A07) 1113416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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 (B08)	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)
52480B3	9456A-2-1	1	CV	10x10	H	L	-20	167	159	199	175
52480B4	9457A-1-1	1	CV	10x10	H	L	-20	195	182	146	174
52480B4	9457A-1-2	1	CV	10x10	H	L	-20	195	182	146	174
52480B4	9457A-2-1	1	CV	10x10	H	L	-20	195	182	146	174

Supplementary Information (C99)

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

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

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

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



DanSteel
Havnvej 33
DK - 3300 Frederikssund
(A01)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Greisen



Europe - Plate

Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (A02)
Certificate No.: (A03)

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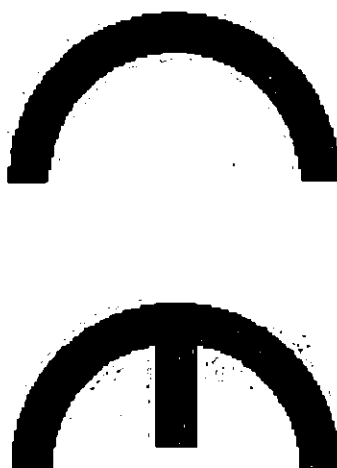
Our order No.: (A08) 7248241

Your order No.: (A07) 1111416

Order registration date: 07.12.2017

Date of dispatch: 25.01.2018 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 TUV NORD Systems GmbH (Notified Body Reg. No. 0045).
DOP's could be down-loaded from www.dansteel.dk



TUV-NORD 0045-CPR-0554

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 (StrSchV) for the unrestricted clearance of solid material (StrSchV Annex III, Section 5) for ferrous nuclides.
Manufactured in Denmark



DanSteel

Manufactured in Denmark
DK - 3300 Favrrebyhoved

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. 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	
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