



Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

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Date of creation: (Z02)

14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241

Your order No.: (A07) P043099

Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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

4102001

certificates@begroup.fi;  
anna-karin@jarnsida.se

Width tolerance: EN 10029 Table 2

BE Group Oy AB  
PL 54 / Ostolaskut  
HELSINGINTIE 50  
15101 LAHTI

Thickness tolerance: EN 10029 Class A

Finland

Flatness tolerance: EN 10029 Table 4 Class N

Finland

CERTIFICATES@BEGROUP.FI;ANNA-KARIN@JARNSIDA.SE

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)
50018G4	0877D	5	10.0	2000	6000	4	3 768	S355K2+N	Head	P043099
50018G3	1068D	5	10.0	2000	6000	3	2 826	S355K2+N	Head	P043099
50033G1	1417D	5	10.0	2000	6000	2	1 884	S355K2+N	Head	P043099
50024F4	1619D	5	10.0	2000	6000	4	3 768	S355K2+N	Head	P043099
50024F1	1642D	5	10.0	2000	6000	4	3 768	S355K2+N	Head	P043099
50029C2	2212D	5	10.0	2000	6000	4	3 768	S355K2+N	Head	P043099
50028B2	2224D	5	10.0	2000	6000	3	2 826	S355K2+N	Head	P043099
50028C4	2227D	5	10.0	2000	6000	1	942	S355K2+N	Head	P043099
50018I5	2379D	5	10.0	2000	6000	2	1 884	S355K2+N	Head	P043099
50029O4	2384D	5	10.0	2000	6000	2	1 884	S355K2+N	Head	P043099
50029M3	2520D	5	10.0	2000	6000	4	3 768	S355K2+N	Head	P043099



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swish

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DK - 3300 Fredenksøværk



Europe – Plate

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Our order No.: (A08) 6201241

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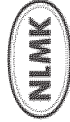
Order registration date: 12.05.2016

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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)
50018Q3	2573D	5	10.0	2000	6000	1	942	S355K2+N	Head	P043099
50033G3	1361D	7	12.0	2000	6000	1	1 130	S355K2+N	Head	P043099
50027E4	1432D	7	12.0	2000	6000	1	1 130	S355K2+N	Head	P043099
49992J5	8612C	7	12.0	2000	6000	4	4 520	S355K2+N	Head	P043099
50034K2	8624C	7	12.0	2000	6000	4	4 520	S355K2+N	Head	P043099
49992J1	8615C	8	12.0	2450	12000	2	5 538	S355K2+N	Head	P043099
50003B2	0016D	9	15.0	2000	6000	4	5 652	S355K2+N	Head	P043099
50000B1	0077D	9	15.0	2000	6000	4	5 652	S355K2+N	Head	P043099
49996E1	0103D	9	15.0	2000	6000	4	5 652	S355K2+N	Head	P043099
49992G2	0109D	9	15.0	2000	6000	3	4 239	S355K2+N	Head	P043099
49992A2	0160D	9	15.0	2000	6000	3	4 239	S355K2+N	Head	P043099
50036J5	1008D	9	15.0	2000	6000	2	2 826	S355K2+N	Head	P043099
50043J5	1026D	9	15.0	2000	6000	4	5 652	S355K2+N	Head	P043099
49992I5	0010D	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
49992F2	0011D	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
50000D1	0017D	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
50043J3	1035D	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
49992J4	9464C	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
50034K4	9465C	10	15.0	2450	12000	2	6 924	S355K2+N	Head	P043099
49992A4	0154D	11	16.0	2000	6000	3	4 521	S355K2+N	Head	P043099
50043J1	1036D	11	16.0	2000	6000	4	6 028	S355K2+N	Head	P043099
49996E2	0078D	12	16.0	2450	12000	2	7 386	S355K2+N	Head	P043099
50000G5	0104D	12	16.0	2450	12000	2	7 386	S355K2+N	Head	P043099
50043G4	1283D	12	16.0	2450	12000	1	3 693	S355K2+N	Head	P043099
49992G5	0110D	13	18.0	2000	6000	3	5 088	S355K2+N	Head	P043099
49992A6	0155D	13	18.0	2000	6000	3	5 088	S355K2+N	Head	P043099

100 163 512



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(A01)



(A04)

Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

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Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

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Date of creation: (Z02)

14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241 Your order No.: (A07) P043099 Order registration date: 12.05.2016 Date of dispatch: 14.09.2016 B

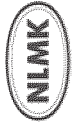
## Chemical composition (heat analysis) all results in %

Heat No. (B07)	C	Mn	Si	P	S	Cr	Cu	Ni	Mo	Al	Nb	V	Ti	N	B
Set values:	min.	0.20	1.60	0.25	0.025	0.025	0.300	0.400	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008
	max.	0.15	0.15	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
49992	0.14	1.44	0.19	0.009	0.008	0.023	0.038	0.016	0.001	0.042	0.003	0.042	0.001	0.0069	0.0003
49996	0.14	1.44	0.19	0.009	0.005	0.022	0.036	0.017	0.001	0.041	0.003	0.047	0.001	0.0084	0.0003
50000	0.14	1.47	0.21	0.013	0.014	0.029	0.035	0.017	0.001	0.038	0.003	0.047	0.001	0.0071	0.0003
50003	0.15	1.43	0.20	0.008	0.007	0.030	0.036	0.021	0.001	0.034	0.003	0.048	0.001	0.0071	0.0003
50018	0.14	1.45	0.19	0.012	0.005	0.024	0.036	0.015	0.001	0.037	0.003	0.042	0.001	0.0081	0.0003
50024	0.13	1.43	0.17	0.011	0.007	0.024	0.033	0.017	0.001	0.045	0.003	0.042	0.001	0.0082	0.0003
50027	0.13	1.45	0.19	0.011	0.005	0.025	0.035	0.019	0.001	0.037	0.003	0.043	0.001	0.0074	0.0003
50028	0.14	1.44	0.20	0.015	0.011	0.032	0.045	0.017	0.001	0.031	0.003	0.046	0.001	0.0078	0.0003
50029	0.15	1.44	0.17	0.014	0.008	0.022	0.038	0.015	0.001	0.036	0.003	0.044	0.001	0.0083	0.0003
50033	0.14	1.45	0.18	0.010	0.009	0.019	0.031	0.016	0.001	0.038	0.003	0.045	0.001	0.0070	0.0003
50034	0.14	1.45	0.19	0.009	0.007	0.018	0.049	0.024	0.001	0.044	0.003	0.044	0.001	0.0069	0.0003
50036	0.13	1.43	0.21	0.011	0.011	0.016	0.024	0.010	0.001	0.033	0.004	0.049	0.001	0.0076	0.0003
50043	0.14	1.44	0.18	0.013	0.009	0.027	0.037	0.020	0.001	0.033	0.003	0.042	0.001	0.0068	0.0003

## Heat No. (B07) CEV

Remark (C70)

Set values:	min.	0.45
	max.	0.45
49992	0.39	1346
49996	0.40	1346
50000	0.41	1346
50003	0.40	1346
50018	0.39	1346
50024	0.38	1346
50027	0.39	1346
50028	0.40	1346
50029	0.40	1346
50033	0.40	1346



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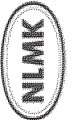
## Chemical composition (heat analysis) all results in %

Heat No. (B07)	CEV	Remark (C70)
Set values:	min.	
	max.	
50034	0.40	1 3 4 6
50036	0.38	1 3 4 6
50043	0.40	1 3 4 6

### Supplementary information (C89)

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

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(A01)



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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
49992I5	0010D-1-1	15.0	R	H	T	381	REH	505	A5	33	0.75
49992I5	0010D-2-1	15.0	R	H	T	381	REH	505	A5	33	0.75
49992F2	0011D-1-1	15.0	R	H	T	381	REH	505	A5	33	0.75
49992F2	0011D-2-1	15.0	R	H	T	381	REH	505	A5	33	0.75
50003B2	0016D-1-1	15.0	R	H	T	418	REH	534	A5	30	0.78
50003B2	0016D-1-2	15.0	R	H	T	418	REH	534	A5	30	0.78
50003B2	0016D-2-1	15.0	R	H	T	418	REH	534	A5	30	0.78
50003B2	0016D-2-2	15.0	R	H	T	418	REH	534	A5	30	0.78
50000D1	0017D-1-1	15.0	R	H	T	407	REH	527	A5	28	0.77
50000D1	0017D-2-1	15.0	R	H	T	407	REH	527	A5	28	0.77
50000B1	0077D-1-1	15.0	R	H	T	389	REH	517	A5	33	0.75
50000B1	0077D-1-2	15.0	R	H	T	389	REH	517	A5	33	0.75
50000B1	0077D-2-1	15.0	R	H	T	389	REH	517	A5	33	0.75
50000B1	0077D-2-2	15.0	R	H	T	389	REH	517	A5	33	0.75
49996E2	0078D-1-1	16.0	R	H	T	387	R02	519	A5	32	0.75
49996E2	0078D-2-1	16.0	R	H	T	387	R02	519	A5	32	0.75
49996E1	0103D-1-1	15.0	R	H	T	387	R02	519	A5	32	0.75
49996E1	0103D-1-2	15.0	R	H	T	387	R02	519	A5	32	0.75
49996E1	0103D-2-1	15.0	R	H	T	387	R02	519	A5	32	0.75
49996E1	0103D-2-2	15.0	R	H	T	387	R02	519	A5	32	0.75
50000G5	0104D-1-1	16.0	R	H	T	389	REH	517	A5	33	0.75
50000G5	0104D-2-1	16.0	R	H	T	389	REH	517	A5	33	0.75
49992G2	0109D-1-1	15.0	R	H	T	381	REH	510	A5	29	0.75
49992G2	0109D-1-2	15.0	R	H	T	381	REH	510	A5	29	0.75
49992G2	0109D-2-1	15.0	R	H	T	381	REH	510	A5	29	0.75
49992G5	0110D-1-1	18.0	R	H	T	377	REH	505	A5	31	0.75
49992G5	0110D-1-2	18.0	R	H	T	377	REH	505	A5	31	0.75
49992G5	0110D-2-1	18.0	R	H	T	377	REH	505	A5	31	0.75



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

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Your order No.: (A07) P043099

Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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
49992A4	0154D-1-1	16.0	R	H	T	381	REH	510	A5	29	0.75
49992A4	0154D-2-1	16.0	R	H	T	381	REH	510	A5	29	0.75
49992A4	0154D-2-2	16.0	R	H	T	381	REH	510	A5	29	0.75
49992A6	0155D-1-1	18.0	R	H	T	377	REH	505	A5	31	0.75
49992A6	0155D-1-2	18.0	R	H	T	377	REH	505	A5	31	0.75
49992A6	0155D-2-1	18.0	R	H	T	377	REH	505	A5	31	0.75
49992A2	0160D-1-1	15.0	R	H	T	381	REH	510	A5	29	0.75
49992A2	0160D-1-2	15.0	R	H	T	381	REH	510	A5	29	0.75
49992A2	0160D-2-1	15.0	R	H	T	381	REH	510	A5	29	0.75
50018G4	0877D-1-1	10.0	R	H	T	408	REH	531	A5	29	0.77
50018G4	0877D-1-2	10.0	R	H	T	408	REH	531	A5	29	0.77
50018G4	0877D-2-1	10.0	R	H	T	408	REH	531	A5	29	0.77
50018G4	0877D-2-2	10.0	R	H	T	408	REH	531	A5	29	0.77
50036J5	1008D-1-1	15.0	R	H	T	404	REH	522	A5	29	0.77
50036J5	1008D-1-2	15.0	R	H	T	404	REH	522	A5	29	0.77
50043J5	1026D-1-1	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J5	1026D-1-2	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J5	1026D-2-1	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J5	1026D-2-2	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J3	1035D-1-1	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J3	1035D-2-1	15.0	R	H	T	379	REH	506	A5	26	0.75
50043J1	1036D-1-1	16.0	R	H	T	379	REH	506	A5	26	0.75
50043J1	1036D-1-2	16.0	R	H	T	379	REH	506	A5	26	0.75
50043J1	1036D-2-1	16.0	R	H	T	379	REH	506	A5	26	0.75
50043J1	1036D-2-2	16.0	R	H	T	379	REH	506	A5	26	0.75
50018G3	1068D-1-1	10.0	R	H	T	408	REH	531	A5	29	0.77
50018G3	1068D-1-2	10.0	R	H	T	408	REH	531	A5	29	0.77
50018G3	1068D-2-1	10.0	R	H	T	408	REH	531	A5	29	0.77



(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
50043G4	1283D-1-1	16.0	R	H	T	379	REH	506	A5	26	0.75
50033G3	1361D-1-2	12.0	R	H	T	409	REH	528	A5	29	0.77
50033G1	1417D-1-1	10.0	R	H	T	409	REH	528	A5	29	0.77
50033G1	1417D-1-2	10.0	R	H	T	409	REH	528	A5	29	0.77
50027E4	1432D-1-2	12.0	R	H	T	399	REH	512	A5	35	0.78
50024F4	1619D-1-1	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F4	1619D-1-2	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F4	1619D-2-1	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F4	1619D-2-2	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F1	1642D-1-1	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F1	1642D-1-2	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F1	1642D-2-1	10.0	R	H	T	402	REH	536	A5	29	0.75
50024F1	1642D-2-2	10.0	R	H	T	402	REH	536	A5	29	0.75
50029C2	2212D-1-1	10.0	R	H	T	413	REH	536	A5	31	0.77
50029C2	2212D-1-2	10.0	R	H	T	413	REH	536	A5	31	0.77
50029C2	2212D-2-1	10.0	R	H	T	413	REH	536	A5	31	0.77
50029C2	2212D-2-2	10.0	R	H	T	413	REH	536	A5	31	0.77
50028B2	2224D-1-1	10.0	R	H	T	419	REH	530	A5	33	0.79
50028B2	2224D-1-2	10.0	R	H	T	419	REH	530	A5	33	0.79
50028B2	2224D-2-1	10.0	R	H	T	419	REH	530	A5	33	0.79
50028C4	2227D-2-1	10.0	R	H	T	419	REH	530	A5	33	0.79
50018I5	2379D-1-1	10.0	R	H	T	408	REH	531	A5	29	0.77
50018I5	2379D-1-2	10.0	R	H	T	408	REH	531	A5	29	0.77
50029O4	2384D-1-1	10.0	R	H	T	420	REH	540	A5	35	0.78
50029O4	2384D-1-2	10.0	R	H	T	420	REH	540	A5	35	0.78
50029M3	2520D-1-1	10.0	R	H	T	420	REH	540	A5	35	0.78
50029M3	2520D-1-2	10.0	R	H	T	420	REH	540	A5	35	0.78
50029M3	2520D-2-1	10.0	R	H	T	420	REH	540	A5	35	0.78



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swishin

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DK - 3300 Fredensborg



Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 8 of 13

Date of creation: (Z02) 14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241

Your order No.: (A07) P043099

Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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
50029M3	2520D-2-2	10.0	R	H	T	420	REH	540	A5	35	0.78
50018Q3	2573D-2-1	10.0	R	H	T	408	REH	531	A5	29	0.77
49992J5	8612C-1-1	12.0	R	H	T	381	REH	510	A5	29	0.75
49992J5	8612C-1-2	12.0	R	H	T	381	REH	510	A5	29	0.75
49992J5	8612C-2-1	12.0	R	H	T	381	REH	510	A5	29	0.75
49992J5	8612C-2-2	12.0	R	H	T	381	REH	510	A5	29	0.75
49992J1	8615C-1-1	12.0	R	H	T	381	REH	510	A5	29	0.75
49992J1	8615C-2-1	12.0	R	H	T	381	REH	510	A5	29	0.75
50034K2	8624C-1-1	12.0	R	H	T	412	REH	526	A5	30	0.78
50034K2	8624C-1-2	12.0	R	H	T	412	REH	526	A5	30	0.78
50034K2	8624C-2-1	12.0	R	H	T	412	REH	526	A5	30	0.78
50034K2	8624C-2-2	12.0	R	H	T	412	REH	526	A5	30	0.78
49992J4	9464C-1-1	15.0	R	H	T	381	REH	510	A5	29	0.75
49992J4	9464C-2-1	15.0	R	H	T	381	REH	510	A5	29	0.75
50034K4	9465C-1-1	15.0	R	H	T	412	REH	526	A5	30	0.78
50034K4	9465C-2-1	15.0	R	H	T	412	REH	526	A5	30	0.78

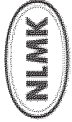
### Supplementary Information (C99)

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

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

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

Original gauge length: 200 mm



DanSteel

Hovmevej 33  
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(A01)



(A04)

Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swishin





Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 9 of 13

Date of creation: (Z02)

14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241

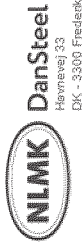
Your order No.: (A07) P043099

Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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 (C42)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
49992I5	0010D-1-1	1	CV	10x10	H	L	-20	191	202	233	209		
49992I5	0010D-2-1	1	CV	10x10	H	L	-20	191	202	233	209		
49992F2	0011D-1-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992F2	0011D-2-1	1	CV	10x10	H	L	-20	237	187	156	193		
50003B2	0016D-1-1	1	CV	10x10	H	L	-20	203	176	213	197		
50003B2	0016D-1-2	1	CV	10x10	H	L	-20	203	176	213	197		
50003B2	0016D-2-1	1	CV	10x10	H	L	-20	203	176	213	197		
50003B2	0016D-2-2	1	CV	10x10	H	L	-20	203	176	213	197		
50000D1	0017D-1-1	1	CV	10x10	H	L	-20	103	181	178	154		
50000D1	0017D-2-1	1	CV	10x10	H	L	-20	149	161	157	156		
50000B1	0077D-1-1	1	CV	10x10	H	L	-20	149	161	157	156		
50000B1	0077D-1-2	1	CV	10x10	H	L	-20	149	161	157	156		
50000B1	0077D-2-1	1	CV	10x10	H	L	-20	149	161	157	156		
50000B1	0077D-2-2	1	CV	10x10	H	L	-20	149	161	157	156		
49996E2	0078D-1-1	1	CV	10x10	H	L	-20	207	244	185	212		
49996E2	0078D-2-1	1	CV	10x10	H	L	-20	207	244	185	212		
49996E1	0103D-1-1	1	CV	10x10	H	L	-20	207	244	185	212		
49996E1	0103D-1-2	1	CV	10x10	H	L	-20	207	244	185	212		
49996E1	0103D-2-1	1	CV	10x10	H	L	-20	207	244	185	212		
49996E1	0103D-2-2	1	CV	10x10	H	L	-20	207	244	185	212		
50000G5	0104D-1-1	1	CV	10x10	H	L	-20	149	161	157	156		
50000G5	0104D-2-1	1	CV	10x10	H	L	-20	149	161	157	156		
49992G2	0109D-1-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992G2	0109D-1-2	1	CV	10x10	H	L	-20	237	187	156	193		
49992G2	0109D-2-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992G5	0110D-1-1	1	CV	10x10	H	L	-20	231	228	249	236		
49992G5	0110D-1-2	1	CV	10x10	H	L	-20	231	228	249	236		
49992G5	0110D-2-1	1	CV	10x10	H	L	-20	231	228	249	236		



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swishin

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Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 10 of 13

Date of creation: (Z02) 14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241

Your order No.: (A07) P043099

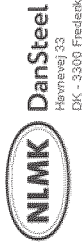
Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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 (C42)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
49992A4	0154D-1-1	1	CV	10x10	H	L	-20	237	187	156	193	156	193
49992A4	0154D-2-1	1	CV	10x10	H	L	-20	237	187	156	193	156	193
49992A4	0154D-2-2	1	CV	10x10	H	L	-20	237	187	156	193	156	193
49992A6	0155D-1-1	1	CV	10x10	H	L	-20	231	228	249	236	249	236
49992A6	0155D-1-2	1	CV	10x10	H	L	-20	231	228	249	236	249	236
49992A6	0155D-2-1	1	CV	10x10	H	L	-20	231	228	249	236	249	236
49992A2	0160D-1-1	1	CV	10x10	H	L	-20	237	187	156	193	156	193
49992A2	0160D-1-2	1	CV	10x10	H	L	-20	237	187	156	193	156	193
49992A2	0160D-2-1	1	CV	10x10	H	L	-20	237	187	156	193	156	193
50018G4	0877D-1-1	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50018G4	0877D-1-2	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50018G4	0877D-2-1	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50018G4	0877D-2-2	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50036J5	1008D-1-1	1	CV	10x10	H	L	-20	130	118	146	131	146	131
50036J5	1008D-1-2	1	CV	10x10	H	L	-20	130	118	146	131	146	131
50043J5	1026D-1-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J5	1026D-1-2	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J5	1026D-2-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J5	1026D-2-2	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J3	1035D-1-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J3	1035D-2-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J1	1036D-1-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J1	1036D-1-2	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J1	1036D-2-1	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50043J1	1036D-2-2	1	CV	10x10	H	L	-20	217	218	228	221	228	221
50018G3	1068D-1-1	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50018G3	1068D-1-2	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81
50018G3	1068D-2-1	1	CV	7.5x10	H	L	-20	81	84	77	81	77	81



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

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Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 11 of 13

Date of creation: (Z02) 14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241

Your order No.: (A07) P043099

Order registration date: 12.05.2016

Date of dispatch: 14.09.2016 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 (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
50043G4	1283D-1-1	1	CV	10x10	H	L	-20	217	218	228	221		
50033G3	1361D-1-2	1	CV	10x10	H	L	-20	191	162	190	181		
50033G1	1417D-1-1	1	CV	7.5x10	H	L	-20	199	171	187	186		
50033G1	1417D-1-2	1	CV	7.5x10	H	L	-20	199	171	187	186		
50027E4	1432D-1-2	1	CV	10x10	H	L	-20	226	258	243	242		
50024F4	1619D-1-1	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F4	1619D-1-2	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F4	1619D-2-1	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F4	1619D-2-2	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F1	1642D-1-1	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F1	1642D-1-2	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F1	1642D-2-1	1	CV	7.5x10	H	L	-20	102	103	140	115		
50024F1	1642D-2-2	1	CV	7.5x10	H	L	-20	102	103	140	115		
50029C2	2212D-1-1	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029C2	2212D-1-2	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029C2	2212D-2-1	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029C2	2212D-2-2	1	CV	7.5x10	H	L	-20	81	102	106	96		
50028B2	2224D-1-1	1	CV	7.5x10	H	L	-20	81	101	76	86		
50028B2	2224D-1-2	1	CV	7.5x10	H	L	-20	81	101	76	86		
50028B2	2224D-2-1	1	CV	7.5x10	H	L	-20	81	101	76	86		
50028C4	2227D-2-1	1	CV	7.5x10	H	L	-20	81	101	76	86		
50018I5	2379D-1-1	1	CV	7.5x10	H	L	-20	81	84	77	81		
50018I5	2379D-1-2	1	CV	7.5x10	H	L	-20	81	84	77	81		
50029O4	2384D-1-1	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029O4	2384D-1-2	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029M3	2520D-1-1	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029M3	2520D-1-2	1	CV	7.5x10	H	L	-20	81	102	106	96		
50029M3	2520D-2-1	1	CV	7.5x10	H	L	-20	81	102	106	96		



(A01)

(A04)



Inspection representative NLMK DanSteel AIS (A05)

Zibrandt Greisen

Z. Swishin

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DK - 3300 Fredensborg



Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Page 12 of 13

Date of creation: (Z02) 14.09.2016

Certificate No.: (A03) 053063/3

Our order No.: (A08) 6201241 Your order No.: (A07) P043099 Order registration date: 12.05.2016 Date of dispatch: 14.09.2016 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 (C42)		SV (C42)		AV (C43)	
								J	J	J	J	J	J
50029M3	2520D-2-2	1	CV	7.5x10	H	L	-20	81	102	106	96		
50018Q3	2573D-2-1	1	CV	7.5x10	H	L	-20	81	84	77	81		
49992J5	8612C-1-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992J5	8612C-1-2	1	CV	10x10	H	L	-20	237	187	156	193		
49992J5	8612C-2-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992J5	8612C-2-2	1	CV	10x10	H	L	-20	237	187	156	193		
49992J1	8615C-1-1	1	CV	10x10	H	L	-20	191	202	233	209		
49992J1	8615C-2-1	1	CV	10x10	H	L	-20	191	202	233	209		
50034K2	8624C-1-1	1	CV	10x10	H	L	-20	239	235	232	235		
50034K2	8624C-1-2	1	CV	10x10	H	L	-20	239	235	232	235		
50034K2	8624C-2-1	1	CV	10x10	H	L	-20	239	235	232	235		
50034K2	8624C-2-2	1	CV	10x10	H	L	-20	239	235	232	235		
49992J4	9464C-1-1	1	CV	10x10	H	L	-20	237	187	156	193		
49992J4	9464C-2-1	1	CV	10x10	H	L	-20	237	187	156	193		
50034K4	9465C-1-1	1	CV	10x10	H	L	-20	239	235	232	235		
50034K4	9465C-2-1	1	CV	10x10	H	L	-20	239	235	232	235		

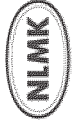
### Supplementary Information (C99)

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 = longitudinal



DanSteel  
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DK - 3300 Fredenksøværk

(A04)



(A01)

Zibrandt Greisen

Z. Swish

Inspection representative NLMK DanSteel AIS (A05)



Europe – Plate

# Inspection Certificate <sup>(A02)</sup>

EN 10204:2004/3.1

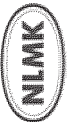
Page 13 of 13  
Date of creation: <sup>(Z02)</sup> 14.09.2016  
Certificate No.: <sup>(A03)</sup> 053063/3

**Our order No.:** <sup>(A08)</sup> 6201241    **Your order No.:** <sup>(A07)</sup> P043099    **Order registration date:** 12.05.2016    **Date of dispatch:** 14.09.2016    **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).  
DOP's could be down-loaded from [www.dansteel.dk](http://www.dansteel.dk)



TÜV-NORD 0045-CPR-0554



**DanSteel** <sup>(A01)</sup>  
Hornvej 33  
DK - 3300 Fredensværk



Inspection representative NLMK DanSteel AIS <sup>(A05)</sup>

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	
	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	