

Our order No.: (A08) 2100471 Your order No.: (A07) 45155 Order registration date: 18.11.2022 Date of dispatch: 23.01.2023 M

## Material requirements and customer information

**Product:** (A03) Plate **Steel standard and grade:** (B02) EN10025-2:2019 S355K2+N **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**  
4002001  
FEON OY  
Teollisuuskatu 33  
00510 Helsinki  
Finland

**Thickness tolerance:** EN 10029 Class B  
**Flatness tolerance:** EN 10029 Table 4 Class N

certificates@feon.fi; janne.myllynen@feon.fi; a.faktarauskas@eu.nlmk.com

**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 (B89)	Customer remark
63160A4	2627D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155
63160C2	2663D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63160C1	2687D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164C3	3118D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164C2	3162D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164C1	3163D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164G3	3168D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164G2	3170D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164G1	3191D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155
63164E4	3240D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155

Our order No.: (A08) 2100471      Your order No.: (A07) 45155      Order registration date: 18.11.2022      Date of dispatch: 23.01.2023 M

## 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)	
63164E2	3244D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63164E1	3245D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63169A3	3398D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63169A4	3427D	1	20.0	2000	6000	2	3 768	S355K2+N	Head	45155	
63171E3	3451D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171E2	3461D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171J1	3499D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171J2	3509D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171J4	3525D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171E4	3526D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63171E1	3543D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63171J3	3544D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63174H5	3654D	1	20.0	2000	6000	2	3 768	S355K2+N	Head	45155	
63174H3	3655D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63174B1	3658D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63177H2	3663D	1	20.0	2000	6000	2	3 768	S355K2+N	Head	45155	
63174H4	3664D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63174B2	3770D	1	20.0	2000	6000	4	7 536	S355K2+N	Head	45155	
63174D1	3806D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
63174B3	3816D	1	20.0	2000	6000	3	5 652	S355K2+N	Head	45155	
							106				
								199 704			



Europe – Plate

# Inspection Certificate

(A02)

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Date of creation: (Z02)

23.01.2023

Certificate No.: (A03)

153052/2

Our order No.: (A08) 2100471

Your order No.: (A07) 45155

Order registration date: 18.11.2022

Date of dispatch: 23.01.2023 M

## 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	0.400	0.400	0.080	0.100	0.060	0.100	0.050	0.0120	0.0008
	max.	0.17	1.48	0.22	0.012	0.002	0.026	0.016	0.002	0.038	0.017	0.002	0.002	0.0037	0.0002
63160		0.17	1.51	0.18	0.011	0.004	0.025	0.017	0.003	0.043	0.018	0.002	0.002	0.0036	0.0001
63164		0.17	1.46	0.23	0.011	0.003	0.032	0.023	0.002	0.039	0.042	0.001	0.002	0.0034	0.0002
63169		0.17	1.46	0.20	0.013	0.004	0.039	0.035	0.003	0.035	0.043	0.001	0.002	0.0037	0.0001
63171		0.17	1.49	0.20	0.009	0.005	0.027	0.018	0.003	0.040	0.041	0.001	0.002	0.0033	0.0001
63174		0.17	1.51	0.23	0.009	0.007	0.056	0.023	0.004	0.043	0.042	0.002	0.002	0.0047	0.0002
63177		0.17	1.51	0.23	0.009	0.007	0.056	0.023	0.004	0.043	0.042	0.002	0.002	0.0047	0.0002

Heat No. (B07) **CEV** **Remark** (C70)

Set values:	min.														
	max.	0.45													
63160		0.43													1 3 4 6
63164		0.43													1 3 4 6
63169		0.42													1 3 4 6
63171		0.43													1 3 4 6
63174		0.43													1 3 4 6
63177		0.43													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 Treated, 6 = Continuous Cast, 7 = Ingot



(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Page 4 of 14  
Date of creation: (Z02) 23.01.2023  
Certificate No.: (A03) 153052/2

Our order No.: (A08) 2100471 Your order No.: (A07) 45155 Order registration date: 18.11.2022 Date of dispatch: 23.01.2023 M

## 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
63160A4	2627D-1-1	20.0	R	H	T	420	REH	560	A5	28	0.75
63160A4	2627D-1-2	20.0	R	H	T	420	REH	560	A5	28	0.75
63160A4	2627D-1-3	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C2	2663D-1-1	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C2	2663D-1-2	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C2	2663D-2-1	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C2	2663D-2-2	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C1	2687D-1-1	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C1	2687D-1-2	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C1	2687D-2-1	20.0	R	H	T	420	REH	560	A5	28	0.75
63160C1	2687D-2-2	20.0	R	H	T	420	REH	560	A5	28	0.75
63164C3	3118D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C3	3118D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C3	3118D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C3	3118D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C2	3162D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C2	3162D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C2	3162D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C2	3162D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C1	3163D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C1	3163D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C1	3163D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164C1	3163D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G3	3168D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G3	3168D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Date of creation: (A02) 23.01.2023

Certificate No.: (A03) 153052/2

Our order No.: (A08) 2100471

Your order No.: (A07) 45155

Order registration date: 18.11.2022

Date of dispatch: 23.01.2023 M

## 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
63164G3	3168D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G3	3168D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G2	3170D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G2	3170D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G2	3170D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G2	3170D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G1	3191D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G1	3191D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G1	3191D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164G1	3191D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E4	3240D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E4	3240D-1-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E4	3240D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E4	3240D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E2	3244D-1-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E2	3244D-1-2	20.0	R	H	T	416	REH	551	A5	26	0.75
63164E2	3244D-2-1	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E2	3244D-2-2	20.0	R	H	T	421	REH	560	A5	28	0.75
63164E1	3245D-1-1	20.0	R	H	T	422	REH	557	A5	27	0.76
63164E1	3245D-1-2	20.0	R	H	T	422	REH	557	A5	27	0.76
63164E1	3245D-2-1	20.0	R	H	T	422	REH	557	A5	27	0.76
63164E1	3245D-2-2	20.0	R	H	T	422	REH	557	A5	27	0.76
63169A3	3398D-1-1	20.0	R	H	T	385	R02	548	A5	21	0.70
63169A3	3398D-1-2	20.0	R	H	T	385	R02	548	A5	21	0.70
63169A3	3398D-1-3	20.0	R	H	T	385	R02	548	A5	21	0.70



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

# Inspection Certificate

(A02)

EN 10204:2004/3.1

Date of creation: (Z02)

23.01.2023

Certificate No.: (A03) 153052/2

Our order No.: (A08) 2100471

Your order No.: (A07) 45155

Order registration date: 18.11.2022

Date of dispatch: 23.01.2023 M

## 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
63169A4	3427D-1-1	20.0	R	H	T	385	R02	548	A5	21	0.70
63169A4	3427D-1-2	20.0	R	H	T	385	R02	548	A5	21	0.70
63171E3	3451D-1-1	20.0	R	H	T	421	R02	569	A5	24	0.74
63171E3	3451D-1-2	20.0	R	H	T	421	R02	569	A5	24	0.74
63171E3	3451D-2-1	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E3	3451D-2-2	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E2	3461D-1-1	20.0	R	H	T	424	R02	563	A5	27	0.75
63171E2	3461D-1-2	20.0	R	H	T	424	R02	563	A5	27	0.75
63171E2	3461D-2-1	20.0	R	H	T	424	R02	563	A5	27	0.75
63171E2	3461D-2-2	20.0	R	H	T	424	R02	563	A5	27	0.75
63171J1	3499D-1-1	20.0	R	H	T	434	REH	563	A5	28	0.77
63171J1	3499D-1-2	20.0	R	H	T	434	REH	563	A5	28	0.77
63171J1	3499D-2-1	20.0	R	H	T	434	REH	563	A5	28	0.77
63171J1	3499D-2-2	20.0	R	H	T	434	REH	563	A5	28	0.77
63171J2	3509D-1-1	20.0	R	H	T	421	REH	559	A5	27	0.75
63171J2	3509D-1-2	20.0	R	H	T	421	REH	559	A5	27	0.75
63171J2	3509D-2-1	20.0	R	H	T	421	REH	559	A5	27	0.75
63171J2	3509D-2-2	20.0	R	H	T	421	REH	559	A5	27	0.75
63171J4	3525D-1-1	20.0	R	H	T	437	REH	565	A5	25	0.77
63171J4	3525D-1-2	20.0	R	H	T	437	REH	565	A5	25	0.77
63171J4	3525D-2-1	20.0	R	H	T	437	REH	565	A5	25	0.77
63171J4	3525D-2-2	20.0	R	H	T	437	REH	565	A5	25	0.77
63171E4	3526D-1-1	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E4	3526D-1-2	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E4	3526D-1-3	20.0	R	H	T	422	REH	556	A5	26	0.76



(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02)

23.01.2023

Certificate No.: (A03)

153052/2

Our order No.: (A08) 2100471

Your order No.: (A07) 45155

Order registration date: 18.11.2022

Date of dispatch: 23.01.2023 M

## 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
63171E1	3543D-1-1	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E1	3543D-1-2	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E1	3543D-2-1	20.0	R	H	T	422	REH	556	A5	26	0.76
63171E1	3543D-2-2	20.0	R	H	T	422	REH	556	A5	26	0.76
63171J3	3544D-1-1	20.0	R	H	T	422	REH	556	A5	26	0.76
63171J3	3544D-1-2	20.0	R	H	T	422	REH	556	A5	26	0.76
63171J3	3544D-1-3	20.0	R	H	T	422	REH	556	A5	26	0.76
63174H5	3654D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H5	3654D-2-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H3	3655D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H3	3655D-2-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H3	3655D-2-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B1	3658D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B1	3658D-1-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B1	3658D-2-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B1	3658D-2-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63177H2	3663D-1-1	20.0	R	H	T	438	REH	567	A5	26	0.77
63177H2	3663D-1-2	20.0	R	H	T	438	REH	567	A5	26	0.77
63174H4	3664D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H4	3664D-2-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174H4	3664D-2-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B2	3770D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B2	3770D-1-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B2	3770D-2-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B2	3770D-2-2	20.0	R	H	T	437	REH	561	A5	23	0.78



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svendsen





Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Date of creation: (Z02)

23.01.2023

Certificate No.: (A03)

153052/2

Our order No.: (A08) 2100471

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Date of dispatch: 23.01.2023 M

## 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
63174D1	3806D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174D1	3806D-1-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174D1	3806D-1-3	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B3	3816D-1-1	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B3	3816D-1-2	20.0	R	H	T	437	REH	561	A5	23	0.78
63174B3	3816D-1-3	20.0	R	H	T	437	REH	561	A5	23	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



(A01)

(A04)



Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen





Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

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Date of creation: (Z02) 23.01.2023  
Certificate No.: (A03) 153052/2

Our order No.: (A08) 2100471 Your order No.: (A07) 45155 Order registration date: 18.11.2022 Date of dispatch: 23.01.2023 M

## 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
63160A4	2627D-1-1	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160A4	2627D-1-2	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160A4	2627D-1-3	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C2	2663D-1-1	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C2	2663D-1-2	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C2	2663D-2-1	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C2	2663D-2-2	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C1	2687D-1-1	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C1	2687D-1-2	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C1	2687D-2-1	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63160C1	2687D-2-2	1	CV	10x10	H	L	-20	52	124	91	89	91	89
63164C3	3118D-1-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C3	3118D-1-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C3	3118D-2-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C3	3118D-2-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C2	3162D-1-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C2	3162D-1-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C2	3162D-2-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C2	3162D-2-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C1	3163D-1-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C1	3163D-1-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C1	3163D-2-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164C1	3163D-2-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164G3	3168D-1-1	1	CV	10x10	H	L	-20	203	189	186	193	186	193
63164G3	3168D-1-2	1	CV	10x10	H	L	-20	203	189	186	193	186	193



(A04)



(A01)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Swishin

Havnavej 33  
DK-3300 Fredriksværk



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Our order No.: (A08) 2100471    Your order No.: (A07) 45155    Order registration date: 18.11.2022    Date of dispatch: 23.01.2023 M

## 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
63164G3	3168D-2-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G3	3168D-2-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G2	3170D-1-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G2	3170D-1-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G2	3170D-2-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G2	3170D-2-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G1	3191D-1-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G1	3191D-1-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G1	3191D-2-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164G1	3191D-2-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E4	3240D-1-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E4	3240D-1-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E4	3240D-2-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E4	3240D-2-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E2	3244D-1-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E2	3244D-1-2	1	CV	10x10	H	L	-20	220	201	220	201	203	203
63164E2	3244D-2-1	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E2	3244D-2-2	1	CV	10x10	H	L	-20	189	186	189	186	193	193
63164E1	3245D-1-1	1	CV	10x10	H	L	-20	187	182	187	182	193	193
63164E1	3245D-1-2	1	CV	10x10	H	L	-20	187	182	187	182	193	193
63164E1	3245D-2-1	1	CV	10x10	H	L	-20	187	182	187	182	193	193
63164E1	3245D-2-2	1	CV	10x10	H	L	-20	187	182	187	182	193	193
63169A3	3398D-1-1	1	CV	10x10	H	L	-20	177	160	177	160	169	169
63169A3	3398D-1-2	1	CV	10x10	H	L	-20	177	160	177	160	169	169
63169A3	3398D-1-3	1	CV	10x10	H	L	-20	177	160	177	160	169	169



(A04)



(A01)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

*Z. Svendsen*

Havnavej 33  
DK-3300 Fredensværk



Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

Our order No.: (A08) 2100471    Your order No.: (A07) 45155    Order registration date: 18.11.2022    Date of dispatch: 23.01.2023 M

## 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
63169A4	3427D-1-1	1	CV	10x10	H	L	-20	171	177	160	169		
63169A4	3427D-1-2	1	CV	10x10	H	L	-20	171	177	160	169		
63171E3	3451D-1-1	1	CV	10x10	H	L	-20	193	160	114	156		
63171E3	3451D-1-2	1	CV	10x10	H	L	-20	193	160	114	156		
63171E3	3451D-2-1	1	CV	10x10	H	L	-20	152	105	142	133		
63171E3	3451D-2-2	1	CV	10x10	H	L	-20	152	105	142	133		
63171E2	3461D-1-1	1	CV	10x10	H	L	-20	188	205	196	196		
63171E2	3461D-1-2	1	CV	10x10	H	L	-20	188	205	196	196		
63171E2	3461D-2-1	1	CV	10x10	H	L	-20	188	205	196	196		
63171E2	3461D-2-2	1	CV	10x10	H	L	-20	188	205	196	196		
63171J1	3499D-1-1	1	CV	10x10	H	L	-20	163	176	182	174		
63171J1	3499D-1-2	1	CV	10x10	H	L	-20	163	176	182	174		
63171J1	3499D-2-1	1	CV	10x10	H	L	-20	163	176	182	174		
63171J1	3499D-2-2	1	CV	10x10	H	L	-20	163	176	182	174		
63171J2	3509D-1-1	1	CV	10x10	H	L	-20	215	200	204	206		
63171J2	3509D-1-2	1	CV	10x10	H	L	-20	215	200	204	206		
63171J2	3509D-2-1	1	CV	10x10	H	L	-20	215	200	204	206		
63171J2	3509D-2-2	1	CV	10x10	H	L	-20	215	200	204	206		
63171J4	3525D-1-1	1	CV	10x10	H	L	-20	167	178	177	174		
63171J4	3525D-1-2	1	CV	10x10	H	L	-20	167	178	177	174		
63171J4	3525D-2-1	1	CV	10x10	H	L	-20	167	178	177	174		
63171J4	3525D-2-2	1	CV	10x10	H	L	-20	167	178	177	174		
63171E4	3526D-1-1	1	CV	10x10	H	L	-20	152	105	142	133		
63171E4	3526D-1-2	1	CV	10x10	H	L	-20	152	105	142	133		
63171E4	3526D-1-3	1	CV	10x10	H	L	-20	152	105	142	133		



(A04)



(A01)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen

Z. Svoboda

Havnvej 33  
DK-3300 Fredriksværk



Our order No.: (A08) 2100471 Your order No.: (A07) 45155 Order registration date: 18.11.2022 Date of dispatch: 23.01.2023 M

### 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
63171E1	3543D-1-1	1	CV	10x10	H	L	-20	152	105	142	133		
63171E1	3543D-1-2	1	CV	10x10	H	L	-20	152	105	142	133		
63171E1	3543D-2-1	1	CV	10x10	H	L	-20	152	105	142	133		
63171E1	3543D-2-2	1	CV	10x10	H	L	-20	152	105	142	133		
63171J3	3544D-1-1	1	CV	10x10	H	L	-20	152	105	142	133		
63171J3	3544D-1-2	1	CV	10x10	H	L	-20	152	105	142	133		
63171J3	3544D-1-3	1	CV	10x10	H	L	-20	152	105	142	133		
63174H5	3654D-1-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174H5	3654D-2-2	1	CV	10x10	H	L	-20	204	194	173	190		
63174H3	3655D-1-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174H3	3655D-2-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174H3	3655D-2-2	1	CV	10x10	H	L	-20	204	194	173	190		
63174B1	3658D-1-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174B1	3658D-1-2	1	CV	10x10	H	L	-20	204	194	173	190		
63174B1	3658D-2-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174B1	3658D-2-2	1	CV	10x10	H	L	-20	204	194	173	190		
63177H2	3663D-1-1	1	CV	10x10	H	L	-20	32	51	51	45		
63177H2	3663D-1-2	1	CV	10x10	H	L	-20	32	51	51	45		
63174H4	3664D-1-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174H4	3664D-2-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174H4	3664D-2-2	1	CV	10x10	H	L	-20	204	194	173	190		
63174B2	3770D-1-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174B2	3770D-1-2	1	CV	10x10	H	L	-20	204	194	173	190		
63174B2	3770D-2-1	1	CV	10x10	H	L	-20	204	194	173	190		
63174B2	3770D-2-2	1	CV	10x10	H	L	-20	204	194	173	190		





Europe – Plate

# Inspection Certificate

EN 10204:2004/3.1

(A02)

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Date of creation: (Z02) 23.01.2023

Certificate No.: (A03) 153052/2

Our order No.: (A08) 2100471

Your order No.: (A07) 45155

Order registration date: 18.11.2022

Date of dispatch: 23.01.2023 M

## 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)
63174D1	3806D-1-1	1	CV	10x10	H	L	-20	194	173	190	190
63174D1	3806D-1-2	1	CV	10x10	H	L	-20	194	173	190	190
63174D1	3806D-1-3	1	CV	10x10	H	L	-20	194	173	190	190
63174B3	3816D-1-1	1	CV	10x10	H	L	-20	194	173	190	190
63174B3	3816D-1-2	1	CV	10x10	H	L	-20	194	173	190	190
63174B3	3816D-1-3	1	CV	10x10	H	L	-20	194	173	190	190

### 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  
Havnvej 33  
DK-3300 Fredensvark

(A01)



(A04)

Inspection representative NLMK DanSteel A/S (A05)

Zibrandt Greisen



Europe – Plate

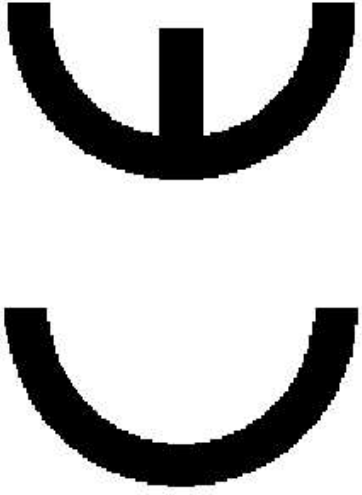
# Inspection Certificate <sup>(A02)</sup>

EN 10204:2004/3.1

Page 14 of 14  
Date of creation: <sup>(Z02)</sup> 23.01.2023  
Certificate No.: <sup>(A03)</sup> 153052/2

**Our order No.:** <sup>(A08)</sup> 2100471      **Your order No.:** <sup>(A07)</sup> 45155      **Order registration date:** 18.11.2022      **Date of dispatch:** 23.01.2023 M

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](http://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 III, Section 5) for ferrous nuclides.  
Manufactured in Denmark



Inspection representative NLMK DanSteel A/S <sup>(A05)</sup>  
Zibrandt Greisen      *Z. Swensen*

## 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	