

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: <small>(A03)</small> Plate	Steel standard and grade: <small>(B02)</small> EN10025-2:2019 S355K2+N	Surface tolerance: EN 10163-2 B3
Delivery condition: <small>(B04)</small> Normalized rolled (+N)		Length tolerance: EN 10029 Table 3
Customer name and address <small>(A06)</small>	Certificate address	Width tolerance: EN 10029 Table 2
4002	4002001	Thickness tolerance: EN 10029 Class B
FEON OY	FEON OY	Flatness tolerance: EN 10029 Table 4 Class N
Teollisuuskatu 33	Finland	
00510 Helsinki		
Finland	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 <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
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

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Details of supplied materials dimensions, weights and pieces

Heat/Slab <small>(B07)</small>	Plate No. <small>(B06)</small>	Item	Thickness mm <small>(B09)</small>	Width mm <small>(B10)</small>	Length mm <small>(B11)</small>	Pieces <small>(B08)</small>	Gross kg <small>(B12)</small>	Hard stamp	Stamp location	Customer remark <small>(B99)</small>
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			

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Chemical composition (heat analysis) all results in %

Heat No. <small>(B07)</small>	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	0.290	0.400	0.400	0.080	0.100	0.060	0.100	0.050	0.0120 0.0008
63160	0.17	1.48	0.22	0.012	0.002	0.018	0.026	0.016	0.002	0.038	0.017	0.002	0.002	0.0037	0.0002
63164	0.17	1.51	0.18	0.011	0.004	0.021	0.025	0.017	0.003	0.043	0.018	0.002	0.002	0.0036	0.0001
63169	0.17	1.46	0.23	0.011	0.003	0.027	0.032	0.023	0.002	0.039	0.042	0.001	0.002	0.0034	0.0002
63171	0.17	1.46	0.20	0.013	0.004	0.039	0.035	0.020	0.003	0.035	0.043	0.001	0.002	0.0037	0.0001
63174	0.17	1.49	0.20	0.009	0.005	0.036	0.027	0.018	0.003	0.040	0.041	0.001	0.002	0.0033	0.0001
63177	0.17	1.51	0.23	0.009	0.007	0.036	0.056	0.023	0.004	0.043	0.042	0.002	0.002	0.0047	0.0002

Heat No. <small>(B07)</small>	CEV	Remark <small>(C70)</small>
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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 Degassed, 6 = Continuous Cast, 7 = Ingot

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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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	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

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	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

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	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

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	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

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Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Thickness mm	Shape <small>(C10)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Yield MPa <small>(C11)</small>	Yield type	UTS Rm MPa <small>(C12)</small>	Elong. type	Elongation % <small>(C13)</small>	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

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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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63160A4	2627D-1-1	1	CV	10x10	H	L	-20	52	124	91	89
63160A4	2627D-1-2	1	CV	10x10	H	L	-20	52	124	91	89
63160A4	2627D-1-3	1	CV	10x10	H	L	-20	52	124	91	89
63160C2	2663D-1-1	1	CV	10x10	H	L	-20	52	124	91	89
63160C2	2663D-1-2	1	CV	10x10	H	L	-20	52	124	91	89
63160C2	2663D-2-1	1	CV	10x10	H	L	-20	52	124	91	89
63160C2	2663D-2-2	1	CV	10x10	H	L	-20	52	124	91	89
63160C1	2687D-1-1	1	CV	10x10	H	L	-20	52	124	91	89
63160C1	2687D-1-2	1	CV	10x10	H	L	-20	52	124	91	89
63160C1	2687D-2-1	1	CV	10x10	H	L	-20	52	124	91	89
63160C1	2687D-2-2	1	CV	10x10	H	L	-20	52	124	91	89
63164C3	3118D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C3	3118D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164C3	3118D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C3	3118D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164C2	3162D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C2	3162D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164C2	3162D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C2	3162D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164C1	3163D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C1	3163D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164C1	3163D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164C1	3163D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164G3	3168D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G3	3168D-1-2	1	CV	10x10	H	L	-20	203	189	186	193

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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63164G3	3168D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G3	3168D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164G2	3170D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G2	3170D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164G2	3170D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G2	3170D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164G1	3191D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G1	3191D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164G1	3191D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164G1	3191D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164E4	3240D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164E4	3240D-1-2	1	CV	10x10	H	L	-20	203	189	186	193
63164E4	3240D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164E4	3240D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164E2	3244D-1-1	1	CV	10x10	H	L	-20	203	189	186	193
63164E2	3244D-1-2	1	CV	10x10	H	L	-20	187	220	201	203
63164E2	3244D-2-1	1	CV	10x10	H	L	-20	203	189	186	193
63164E2	3244D-2-2	1	CV	10x10	H	L	-20	203	189	186	193
63164E1	3245D-1-1	1	CV	10x10	H	L	-20	210	187	182	193
63164E1	3245D-1-2	1	CV	10x10	H	L	-20	210	187	182	193
63164E1	3245D-2-1	1	CV	10x10	H	L	-20	210	187	182	193
63164E1	3245D-2-2	1	CV	10x10	H	L	-20	210	187	182	193
63169A3	3398D-1-1	1	CV	10x10	H	L	-20	171	177	160	169
63169A3	3398D-1-2	1	CV	10x10	H	L	-20	171	177	160	169
63169A3	3398D-1-3	1	CV	10x10	H	L	-20	171	177	160	169

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 (A01) Impact tests were performed in accordance with EN 10045/ISO 148-1 with results as stated below:

Heat/slab <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
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

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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
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

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 <small>(B07)</small>	Plate ID <small>(B06)</small>	Position <small>(C01)</small>	Notch <small>(C40)</small>	Shape <small>(C41)</small>	Loc. <small>(C01)</small>	Dir. <small>(C02)</small>	Temp. °C <small>(C03)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	SV J <small>(C42)</small>	AV J <small>(C43)</small>
63174D1	3806D-1-1	1	CV	10x10	H	L	-20	204	194	173	190
63174D1	3806D-1-2	1	CV	10x10	H	L	-20	204	194	173	190
63174D1	3806D-1-3	1	CV	10x10	H	L	-20	204	194	173	190
63174B3	3816D-1-1	1	CV	10x10	H	L	-20	204	194	173	190
63174B3	3816D-1-2	1	CV	10x10	H	L	-20	204	194	173	190
63174B3	3816D-1-3	1	CV	10x10	H	L	-20	204	194	173	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

Our order No.: (A08) 2100471Your order No.: (A07) 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 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

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