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STAHLWERK THÜRINGEN

A01 Stahlwerk Thüringen GmbH
A05 Quality Assurance Department
Kronacher Straße 6
07333 Unterwellenborn
Germany

A08 Our Order No.: 2073749117
A07 Your Order No.: 67080

B02 Quality: S355J0+AR
according to: EN 10025-2/2004

A03 **Certificate No. 2336/4-2018**
Advice No. A180418116

A02 Inspection Certificate 3.1

according to EN 10204:2004/3.1

SWT

A04
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A.J.N. STEELSTOCK LTD
Icknield Way - Kentford
CB8 7QT Newmarket, Suffolk
UNITED KINGDOM

Pos. A10	Heat No. B07	Dimension B01	Length B09	Pieces B08	Theoretical Weight B12
001	12358	UB 152X89X16	6 100 mm	24	2 342 kg
001	12361	UB 152X89X16	6 100 mm	54	5 270 kg
001	88309	UB 152X89X16	6 100 mm	96	9 369 kg
001	88310	UB 152X89X16	6 100 mm	102	9 955 kg
002	12363	UB 152X89X16	9 500 mm	144	21 888 kg
003	12359	UB 152X89X16	12 200 mm	216	42 168 kg
003	12360	UB 152X89X16	12 200 mm	36	7 028 kg
004	12359	UB 152X89X16	14 000 mm	126	28 224 kg
005	12358	UB 152X89X16	15 500 mm	54	13 392 kg
005	12359	UB 152X89X16	15 500 mm	30	7 440 kg
011	11391	UB 203X102X23	6 100 mm	21	2 959 kg
011	11394	UB 203X102X23	6 100 mm	84	11 836 kg
011	11395	UB 203X102X23	6 100 mm	126	17 754 kg
012	11393	UB 203X102X23	9 500 mm	63	13 824 kg
012	11394	UB 203X102X23	9 500 mm	35	7 680 kg
013	11395	UB 203X102X23	12 200 mm	15	4 227 kg
016	12033	UB 203X133X25	6 100 mm	126	19 290 kg
016	12034	UB 203X133X25	6 100 mm	63	9 645 kg
016	12040	UB 203X133X25	6 100 mm	21	3 215 kg
017	12032	UB 203X133X25	8 000 mm	85	17 068 kg
018	12039	UB 203X133X25	9 500 mm	45	10 731 kg
018	12040	UB 203X133X25	9 500 mm	45	10 731 kg
019	12033	UB 203X133X25	11 000 mm	75	20 710 kg
020	12032	UB 203X133X25	12 200 mm	105	32 151 kg
020	12033	UB 203X133X25	12 200 mm	65	19 903 kg
021	12039	UB 203X133X25	13 000 mm	30	9 790 kg
021	89002	UB 203X133X25	13 000 mm	6	1 958 kg
021	89012	UB 203X133X25	13 000 mm	12	3 916 kg
022	12032	UB 203X133X25	14 000 mm	90	31 626 kg
023	12039	UB 203X133X25	15 500 mm	70	27 237 kg
024	12039	UB 203X133X25	16 500 mm	50	20 710 kg
025	12038	UB 203X133X25	18 300 mm	15	6 890 kg
025	12039	UB 203X133X25	18 300 mm	30	13 779 kg
026	12025	UB 203X133X30	6 100 mm	60	10 980 kg
026	12029	UB 203X133X30	6 100 mm	30	5 490 kg
026	12030	UB 203X133X30	6 100 mm	90	16 470 kg
027	12027	UB 203X133X30	8 000 mm	70	16 800 kg

Z03 Works inspector
René Merbach

Z02 19-Apr-2018

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Despatch No.: 1006313 S/O No.: 2273.05 Cust Name: Weldrite Structures Ltd
Cust Ref: WSL9946/C1255/L1 Parent: 285806 Cast No.....: 11560 Weight: 0.190
Pieces: 4 Size: 6.100 Message: AJN Steelstock Ltd Product: UB254146-31
Child Batch No: 285806

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A.J.N. STEELSTOCK LTD
Icknield Way - Kentford
CB8 7QT Newmarket, Suffolk
UNITED KINGDOM

Pos. A10	Heat No. B07	Dimension B01	Length B09	Pieces B08	Theoretical Weight B12
028	12027	UB 203X133X30	9 500 mm	75	21 375 kg
029	12029	UB 203X133X30	11 000 mm	60	19 800 kg
030	12030	UB 203X133X30	12 200 mm	140	51 240 kg
031	89010	UB 203X133X30	13 000 mm	34	13 260 kg
032	12027	UB 203X133X30	14 000 mm	70	29 400 kg
033	12026	UB 203X133X30	15 500 mm	30	13 950 kg
033	12027	UB 203X133X30	15 500 mm	10	4 650 kg
034	12026	UB 203X133X30	16 500 mm	30	14 850 kg
035	12026	UB 203X133X30	18 300 mm	30	16 470 kg
K 042	11560	UB 254X146X31	6 100 mm	72	13 662 kg
K 042	11561	UB 254X146X31	6 100 mm	8	1 518 kg
043	11561	UB 254X146X31	9 500 mm	48	14 184 kg
047	11560	UB 254X146X31	15 500 mm	8	3 856 kg
047	11563	UB 254X146X31	15 500 mm	48	23 136 kg
049	11562	UB 254X146X31	18 300 mm	16	9 106 kg
049	11563	UB 254X146X31	18 300 mm	24	13 659 kg
050	11576	UB 305X165X40	6 100 mm	30	7 374 kg
050	11577	UB 305X165X40	6 100 mm	40	9 832 kg
051	11576	UB 305X165X40	9 500 mm	40	15 316 kg
051	11577	UB 305X165X40	9 500 mm	5	1 914 kg
052	11577	UB 305X165X40	11 000 mm	36	15 959 kg
053	11577	UB 305X165X40	12 200 mm	40	19 665 kg
054	11577	UB 305X165X40	14 000 mm	48	27 084 kg
055	11575	UB 305X165X40	15 500 mm	44	27 484 kg
056	11574	UB 305X165X40	16 500 mm	18	11 970 kg
056	11575	UB 305X165X40	16 500 mm	6	3 990 kg
057	11574	UB 305X165X40	18 300 mm	21	15 487 kg

Heat Analysis [%]

Heat No. B07	C C71	Si C72	Mn C73	P C74	S C75	N C76	Al C77	Nb C78	V C79	Cr C80
max	0.20	0.25	1.60	0.035	0.035					
min		0.14								
11391	0.08	0.18	1.42	0.020	0.022	0.009	0.014	0.040	0.008	0.09
11393	0.08	0.18	1.43	0.018	0.022	0.009	0.015	0.040	0.008	0.08

Z03 Works inspector
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A.J.N. STEELSTOCK LTD
Icknield Way - Kentford
CB8 7QT Newmarket, Suffolk
UNITED KINGDOM

Heat Analysis [%]

Heat No. B07	C C71	Si C72	Mn C73	P C74	S C75	N C76	Al C77	Nb C78	V C79	Cr C80
max	0.20	0.25	1.60	0.035	0.035					
min		0.14								
11394	0.07	0.18	1.43	0.020	0.023	0.011	0.014	0.040	0.007	0.10
11395	0.08	0.17	1.45	0.021	0.023	0.011	0.015	0.040	0.008	0.11
11560	0.07	0.19	1.47	0.012	0.016	0.012	0.019	0.039	0.008	0.08
11561	0.07	0.19	1.47	0.016	0.018	0.011	0.016	0.040	0.008	0.10
11562	0.08	0.19	1.48	0.019	0.022	0.010	0.016	0.040	0.009	0.10
11563	0.07	0.20	1.44	0.018	0.021	0.010	0.017	0.038	0.008	0.09
11574	0.08	0.17	1.42	0.022	0.019	0.010	0.015	0.041	0.007	0.09
11575	0.07	0.18	1.46	0.021	0.019	0.010	0.020	0.040	0.007	0.09
11576	0.08	0.19	1.44	0.018	0.020	0.009	0.016	0.040	0.007	0.09
11577	0.07	0.18	1.45	0.016	0.019	0.010	0.018	0.039	0.007	0.10
12025	0.07	0.18	1.44	0.019	0.022	0.010	0.016	0.038	0.007	0.09
12026	0.09	0.19	1.45	0.021	0.021	0.011	0.015	0.039	0.007	0.10
12027	0.08	0.20	1.43	0.018	0.018	0.009	0.018	0.038	0.007	0.10
12029	0.07	0.18	1.46	0.018	0.018	0.009	0.015	0.037	0.006	0.10
12030	0.08	0.19	1.42	0.021	0.023	0.010	0.014	0.039	0.006	0.11
12032	0.08	0.17	1.42	0.018	0.018	0.011	0.016	0.040	0.008	0.09
12033	0.07	0.18	1.42	0.018	0.020	0.010	0.016	0.039	0.008	0.08
12034	0.07	0.18	1.39	0.018	0.017	0.009	0.015	0.037	0.006	0.08
12038	0.06	0.18	1.43	0.021	0.018	0.009	0.013	0.037	0.006	0.08
12039	0.06	0.19	1.42	0.018	0.016	0.010	0.015	0.038	0.006	0.08
12040	0.07	0.18	1.44	0.019	0.017	0.010	0.015	0.039	0.007	0.09
12358	0.07	0.18	1.42	0.016	0.016	0.009	0.012	0.039	0.006	0.07
12359	0.07	0.18	1.41	0.013	0.011	0.008	0.018	0.038	0.006	0.07
12360	0.08	0.19	1.42	0.021	0.017	0.008	0.015	0.039	0.007	0.08
12361	0.08	0.19	1.42	0.022	0.016	0.009	0.016	0.038	0.007	0.08
12363	0.08	0.19	1.42	0.019	0.015	0.008	0.016	0.040	0.007	0.08
88309	0.08	0.18	1.44	0.018	0.018	0.009	0.014	0.038	0.006	0.08
88310	0.09	0.18	1.44	0.019	0.021	0.010	0.015	0.036	0.006	0.07
89002	0.08	0.18	1.42	0.018	0.019	0.007	0.016	0.039	0.007	0.09
89010	0.08	0.18	1.44	0.018	0.021	0.010	0.015	0.038	0.006	0.11
89012	0.08	0.18	1.42	0.018	0.019	0.007	0.016	0.039	0.007	0.09

Z03 Works inspector
René Merbach

Z02 19-Apr-2018

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A.J.N. STEELSTOCK LTD
Icknield Way - Kentford
CB8 7QT Newmarket, Suffolk
UNITED KINGDOM

Heat Analysis [%]

Heat No. B07	Cu C71	Ni C72	Mo C73	Ti C74	CEV1 C93
max	0.55				0.46
min					
11391	0.36	0.14	0.03	0.024	0.38
11393	0.32	0.14	0.03	0.024	0.38
11394	0.29	0.13	0.04	0.023	0.37
11395	0.30	0.13	0.05	0.022	0.38
11560	0.29	0.14	0.03	0.022	0.37
11561	0.32	0.15	0.03	0.022	0.37
11562	0.32	0.14	0.03	0.023	0.38
11563	0.29	0.15	0.03	0.023	0.37
11574	0.34	0.15	0.03	0.021	0.37
11575	0.34	0.15	0.03	0.022	0.38
11576	0.31	0.15	0.03	0.023	0.37
11577	0.27	0.15	0.03	0.021	0.37
12025	0.31	0.15	0.03	0.023	0.37
12026	0.36	0.17	0.04	0.023	0.39
12027	0.34	0.16	0.04	0.022	0.38
12029	0.31	0.14	0.04	0.023	0.37
12030	0.31	0.15	0.03	0.023	0.37
12032	0.32	0.14	0.03	0.021	0.37
12033	0.33	0.14	0.03	0.023	0.37
12034	0.30	0.14	0.03	0.022	0.35
12038	0.31	0.13	0.04	0.023	0.36
12039	0.30	0.13	0.03	0.022	0.35
12040	0.32	0.14	0.03	0.023	0.37
12358	0.25	0.12	0.03	0.016	0.35
12359	0.23	0.13	0.04	0.018	0.35
12360	0.30	0.15	0.03	0.019	0.37
12361	0.29	0.15	0.04	0.019	0.37
12363	0.27	0.15	0.03	0.020	0.36
88309	0.30	0.16	0.03	0.018	0.38
88310	0.31	0.12	0.02	0.018	0.37
89002	0.30	0.17	0.03	0.023	0.37
89010	0.32	0.21	0.03	0.023	0.38
89012	0.30	0.17	0.03	0.023	0.37

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A.J.N. STEELSTOCK LTD
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UNITED KINGDOM

Tensile test (ISO 6892-1)

Heat No. B07	Yield stress [N/mm²] C11	Tensile strength [N/mm²] C12	Elongation [%] C13	Ys/Ts C14
max		630		
min	355	470	22.0	
11391	399	565	27.0	0.71
11393	394	558	26.0	0.71
11394	411	569	26.0	0.72
11395	379	555	26.0	0.68
11560	400	538	28.0	0.74
11561	396	537	29.0	0.74
11562	382	551	27.0	0.69
11563	376	547	27.0	0.69
11574	384	555	26.0	0.69
11575	375	546	28.0	0.69
11576	386	554	26.0	0.70
11577/1	382	543	27.0	0.70
11577/2	385	541	28.0	0.71
12025	385	559	27.0	0.69
12026/1	381	548	25.0	0.70
12026/2	385	541	26.0	0.71
12027/1	394	568	25.0	0.69
12027/2	398	561	26.0	0.71
12029	365	536	26.0	0.68
12030/1	367	535	25.0	0.69
12030/2	372	531	26.0	0.70
12032/1	381	552	25.0	0.69
12032/2	384	548	27.0	0.70
12032/3	383	546	26.0	0.70
12033/1	377	545	25.0	0.69
12033/2	380	541	26.0	0.70
12034	373	539	25.0	0.69
12038	375	548	25.0	0.68
12039/1	374	545	25.0	0.69
12039/2	381	540	26.0	0.71
12039/3	379	542	26.0	0.70
12040	365	532	25.0	0.69
12358	378	540	30.0	0.70
12359/1	381	542	25.0	0.70
12359/2	385	538	26.0	0.72

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UNITED KINGDOM

Tensile test (ISO 6892-1)

Heat No. B07	Yield stress [N/mm²] C11	Tensile strength [N/mm²] C12	Elongation [%] C13	Ys/Ts C14
max		630		
min	355	470	22.0	
12360	384	561	27.0	0.68
12361	385	566	29.0	0.68
12363	360	540	27.0	0.67
88309	382	563	25.0	0.68
88310	378	557	25.0	0.68
89002	393	569	26.0	0.69
89010	379	551	26.0	0.69
89012	388	553	27.0	0.70

Impact test (ISO148-1)

Heat No. B07	Type C40/C41	Temperature C03	L C02 1 [J] C42	2 C42	3 C42	M C43
min						
11391	KV 450/7.5	0°C	148	155	157	153
11393	KV 450/7.5	0°C	132	146	146	141
11394	KV 450/7.5	0°C	155	153	149	152
11395	KV 450/7.5	0°C	69	147	137	117
11560	KV 450/7.5	0°C	171	167	164	167
11561	KV 450/7.5	0°C	170	124	136	143
11562	KV 450/7.5	0°C	132	160	112	134
11563	KV 450/7.5	0°C	137	152	146	145
11574	KV 450/7.5	0°C	120	73	128	107
11575	KV 450/7.5	0°C	151	118	146	138
11576	KV 450/7.5	0°C	153	137	123	137
11577/1	KV 450/7.5	0°C	148	139	149	145
11577/2	KV 450/7.5	0°C	146	149	140	145
12025	KV 450/7.5	0°C	64	107	141	104
12026/1	KV 450/7.5	0°C	143	124	127	131
12026/2	KV 450/7.5	0°C	130	127	132	129
12027/1	KV 450/7.5	0°C	49	100	71	73
12027/2	KV 450/7.5	0°C	78	65	73	72

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UNITED KINGDOM

Impact test (ISO148-1)

Heat No. B07	Type C40/C41	Temperature C03	L C02 1 [J] C42	2 C42	3 C42	M C43
min						
12029	KV 450/7.5	0°C	117	42	51	70
12030/1	KV 450/7.5	0°C	59	144	66	89
12030/2	KV 450/7.5	0°C	79	98	88	88
12032/1	KV 450/5	0°C	92	95	67	84
12032/2	KV 450/5	0°C	83	89	75	82
12032/3	KV 450/5	0°C	86	74	91	83
12033/1	KV 450/5	0°C	77	71	71	73
12033/2	KV 450/5	0°C	74	76	75	75
12034	KV 450/5	0°C	81	70	69	73
12038	KV 450/5	0°C	90	101	57	82
12039/1	KV 450/5	0°C	89	80	79	82
12039/2	KV 450/5	0°C	89	76	82	82
12039/3	KV 450/5	0°C	81	88	79	82
12040	KV 450/5	0°C	69	109	76	84
12358	KV 450/5	0°C	82	96	102	93
12359/1	KV 450/5	0°C	83	86	81	83
12359/2	KV 450/5	0°C	85	82	82	83
12360	KV 450/5	0°C	85	69	74	76
12361	KV 450/5	0°C	83	43	75	67
12363	KV 450/5	0°C	72	71	72	71
88309	KV 450/5	0°C	48	98	71	72
88310	KV 450/5	0°C	100	83	89	90
89002	KV 450/5	0°C	79	86	78	81
89010	KV 450/7.5	0°C	137	98	95	110
89012	KV 450/5	0°C	79	93	106	92

Z01

Material for galvanization. Si: 0.14% - 0.25%

- electric arc melting
- surface condition according to DIN EN 10163-3, class C, subclass 1

Material number: 1.0553

Z03 Works inspector
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Advice No. A180418116

A02 Inspection Certificate 3.1

according to EN 10204:2004/3.1

SWT

A04
A06

A.J.N. STEELSTOCK LTD
Icknield Way - Kentford
CB8 7QT Newmarket, Suffolk
UNITED KINGDOM

B14

General technical terms of delivery for hot rolled structural steel products: DIN EN 10025-1
Intended uses: Welded, bolted and riveted structures
Expressed as indicated in the DoP:
Tolerances / Tensile strength / Yield strength / Elongation
Impact strength / Weldability / Durability

Tolerances on dimensions and shape:
HE/IPE/UB/UC/BP/HP according to DIN EN 10034
U/UPE/PFC according to DIN EN 10279

The delivered products do not exceed the limit values of surface contamination according to the German Radiation Protection Ordinance.

We confirm herewith that the delivered material complies with the terms of the order.

Z03 Works inspector
René Merbach

Z02 19-Apr-2018

Z04

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