

 <b>STAHLWERK THÜRINGEN</b>		A03 Certificate No. 3001/2-2019 Advice No. A190221135 1/3
A01 Stahlwerk Thüringen GmbH A05 Quality Assurance Department Kronacher Straße 6 07333 Unterwellenborn Germany		A02 Test Report  according to ASTM A6  
A08 Our Order No.: 2081343118 A07 Your Order No.: TAC482		A04 A06
B02 Quality: A992 DUAL according to: ASTM A992 - ASTM A572 GR50		



Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	20914	C 12X20,7	480 in	170	63 852 kg
001	20915	C 12X20,7	480 in	160	60 096 kg
001	20916	C 12X20,7	480 in	170	63 852 kg
001	20917	C 12X20,7	480 in	42	15 775 kg
002	20910	C 12X25	480 in	139	63 050 kg
003	20909	C 12X30	480 in	118	64 226 kg
003	20925	C 12X30	480 in	7	3 810 kg
003	20926	C 12X30	480 in	21	11 430 kg
003	20927	C 12X30	480 in	51	27 759 kg
004	21863	C 15X33,9	480 in	133	81 814 kg
004	21864	C 15X33,9	480 in	37	22 760 kg

Heat Analysis [%]										
Heat No.	C	Si	Mn	P	S	N	Nb	V	Cr	Cu
B07	C71	C72	C73	C74	C75	C76	C77	C78	C79	C80
max	0.23	0.40	1.50	0.035	0.045	0.012	0.050	0.110	0.35	0.60
min		0.10	0.50				0.005			
20909	0.08	0.19	0.92	0.023	0.022	0.008	0.018	0.005	0.09	0.33
20910	0.08	0.19	0.92	0.023	0.022	0.008	0.018	0.005	0.09	0.33
20914	0.07	0.19	0.92	0.014	0.018	0.009	0.020	0.005	0.10	0.34
20915	0.08	0.20	0.92	0.023	0.025	0.010	0.019	0.005	0.10	0.41
20916	0.08	0.20	0.93	0.026	0.027	0.010	0.018	0.005	0.09	0.39
20917	0.08	0.20	0.94	0.023	0.024	0.010	0.019	0.005	0.09	0.37
20925	0.08	0.19	0.92	0.023	0.022	0.008	0.018	0.005	0.09	0.33
20926	0.08	0.20	0.93	0.019	0.019	0.009	0.021	0.007	0.09	0.32
20927	0.11	0.19	0.94	0.013	0.017	0.010	0.021	0.005	0.06	0.28
21863	0.08	0.19	1.47	0.011	0.015	0.010	0.037	0.007	0.07	0.15
21864	0.08	0.19	1.47	0.011	0.015	0.010	0.037	0.007	0.07	0.15

Z03 Works inspector  
René Merbach




Z02 Feb 22, 2019

 <b>STAHLWERK THÜRINGEN</b>		A03 Certificate No. 3001/2-2019 <span style="float: right;">2/3</span> Advice No. A190221135
A01 Stahlwerk Thüringen GmbH A05 Quality Assurance Department Kronacher Straße 6 07333 Unterwellenborn Germany		A02 Test Report  according to ASTM A6  
A08 Our Order No.: 2081343118 A07 Your Order No.: TAC482		A04 A06
B02 Quality: A992 DUAL according to: ASTM A992 - ASTM A572 GR50		




Heat Analysis [%]				
Heat No.	Ni	Mo	CEV1	Sn
B07	C71	C72	C93	C73
max	0.45	0.15	0.45	
min				
20909	0.13	0.02	0.29	0.014
20910	0.13	0.02	0.29	0.014
20914	0.14	0.03	0.29	0.013
20915	0.16	0.03	0.30	0.015
20916	0.15	0.03	0.30	0.014
20917	0.14	0.03	0.29	0.014
20925	0.13	0.02	0.29	0.014
20926	0.14	0.04	0.29	0.017
20927	0.13	0.03	0.31	0.013
21863	0.08	0.02	0.36	0.008
21864	0.08	0.02	0.36	0.008

Tensile test				
Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14
max	65000			0.85
min	50000	65000	21.0	
20909/1	56260	71920	34.3	0.78
20909/2	55245	71630	40.9	0.77
20910/1	55825	72645	35.6	0.77
20910/2	55245	71630	40.9	0.77
20914/1	55245	72790	35.6	0.76
20914/2	55245	71775	40.3	0.77
20915/1	57130	73225	35.6	0.78
20915/2	55390	72500	40.3	0.76
20916/1	57420	74820	35.6	0.77
20916/2	55390	72210	40.9	0.77
20917/1	56840	74385	35.6	0.76
20917/2	55390	72065	40.9	0.77
20925	56550	72790	38.3	0.78
20926/1	56260	71340	33.0	0.79
20926/2	55680	72065	40.3	0.77

Z03 Works inspector  
René Merbach



Z02 Feb 22, 2019

 <b>STAHLWERK THÜRINGEN</b>	<div style="display: flex; justify-content: space-between;"> <span>A03</span> <span>Certificate No. 3001/2-2019</span> <span>3 / 3</span> </div> <p>Advice No. A190221135</p> <div style="display: flex; justify-content: space-between;"> <span>A02</span> <span>Test Report</span> </div> <p>according to ASTM A6</p> <div style="text-align: center;">  </div>																																																		
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<div style="display: flex; justify-content: space-between;"> <span>Z01</span> </div> <ul style="list-style-type: none"> <li>- electric arc melting</li> <li>- Melted &amp; Manufactured in Germany</li> <li>- fine grain silicon killed</li> </ul> <p>HOT ROLLED, NON-ALLOYED CARBON STEEL PROFILES</p> <p>We confirm herewith that the delivered material complies with the terms of the order.</p>																																																			
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