



**STAHLWERK THÜRINGEN**  
Grupo Alfonso Gallardo

A03

Certificate No. 2699/10-2011  
Advice No. A111028006

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A02

Mill Test Certificate

according to EN 10204:2004/3.1

A01

Stahlwerk Thüringen GmbH

A05

Quality Assurance Department  
Kronacher Straße 6  
07333 Unterwellenborn  
Germany

A04

**SWT**

A06

Salzgitter Mannesmann  
International GmbH  
Schwannstrasse 12  
40476 Duesseldorf  
GERMANY

A08

Our Order No.: 2024375111

A07

Your Order No.: 315/10470

B02

Quality: A36/A572 DUAL  
according to: PRODUCED TO ASTM A36  
AND ASTM A572 GRADE 50

Pos.	Heat No.	Dimension	Length	Pieces	Theoretical Weight
A10	B07	B01	B09	B08	B12
001	16123	C 10X15,3	480 in	180	49 970 kg
001	16124	C 10X15,3	480 in	162	44 973 kg
001	16125	C 10X15,3	480 in	36	9 994 kg
002	16115	C 10X20	480 in	105	38 100 kg
002	16116	C 10X20	480 in	133	48 260 kg
002	16117	C 10X20	480 in	28	10 160 kg
003	16113	C 10X25	480 in	110	49 896 kg
003	16114	C 10X25	480 in	30	13 608 kg
004	16112	C 10X30	480 in	70	38 100 kg
005	16104	C 12X20,7	480 in	42	15 774 kg
005	16105	C 12X20,7	480 in	98	36 806 kg
005	16106	C 12X20,7	480 in	140	52 580 kg
006	16094	C 12X25	480 in	150	68 040 kg
006	16095	C 12X25	480 in	10	4 536 kg
007	16090	C 12X30	480 in	70	38 101 kg
007	16092	C 12X30	480 in	4	2 177 kg

Heat Analysis [%]

Heat No.	C	Si	Mn	P	S	N	Nb	V
B07	C71	C72	C73	C74	C75	C76	C77	C78
max		0.40		0.040	0.050		0.050	
min							0.005	
16090	0.08	0.19	1.14	0.024	0.027	0.009	0.012	0.007
16092	0.09	0.20	1.14	0.023	0.025	0.009	0.013	0.007
16094	0.08	0.19	1.14	0.029	0.030	0.007	0.013	0.009
16095	0.08	0.19	1.15	0.027	0.027	0.007	0.013	0.008
16104	0.09	0.20	1.16	0.029	0.026	0.008	0.016	0.010
16105	0.09	0.19	1.14	0.023	0.026	0.007	0.014	0.009
16106	0.08	0.20	1.14	0.025	0.027	0.008	0.014	0.009
16112	0.08	0.19	1.15	0.027	0.027	0.007	0.013	0.008
16113	0.08	0.19	1.12	0.024	0.025	0.006	0.013	0.008
16114	0.08	0.19	1.15	0.024	0.025	0.006	0.013	0.008
16115	0.07	0.19	1.16	0.028	0.021	0.009	0.014	0.008
16116	0.09	0.20	1.15	0.021	0.024	0.006	0.014	0.009
16117	0.09	0.21	1.19	0.023	0.024	0.007	0.017	0.009

Z03

Works inspector  
René Merbach

Z02

Oct 28, 2011

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A05 Quality Assurance Department  
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Heat Analysis [%]

Heat No.	C	Si	Mn	P	S	N	Nb	V
B07	C71	C72	C73	C74	C75	C76	C77	C78
max		0.40		0.040	0.050		0.050	
min							0.005	
16123	0.08	0.17	1.13	0.019	0.025	0.010	0.011	0.008
16124	0.08	0.19	1.16	0.021	0.029	0.008	0.012	0.008
16125	0.08	0.21	1.18	0.019	0.030	0.008	0.013	0.008

Tensile test

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14
max		80000		
min	50000	65000	21.0	
16090/1	54955	73950	40.9	0.74
16090/2	53650	72500	42.9	0.74
16092	53505	71195	39.6	0.75
16094/1	50315	72210	40.9	0.70
16094/2	54375	73370	42.9	0.74
16095	50170	68730	33.0	0.73
16104/1	51910	75110	39.6	0.69
16104/2	56550	73660	42.2	0.77
16105/1	51620	73805	35.6	0.70
16105/2	55680	73080	42.9	0.76
16106/1	52635	75255	38.3	0.70
16106/2	56405	72500	42.9	0.78
16112/1	52925	70760	38.3	0.75
16112/2	54665	72935	42.9	0.75
16113/1	52200	70905	39.6	0.74
16113/2	53795	72210	42.9	0.74
16114/1	52925	70760	37.0	0.75
16114/2	54230	72500	42.9	0.75
16115/1	51475	72500	39.6	0.71
16115/2	54520	73080	42.2	0.75
16116/1	53360	75980	35.6	0.70
16116/2	55100	73370	42.9	0.75
16117/1	56550	77430	39.6	0.73

Z03 Works inspector  
René Merbach



Z02 Oct 28, 2011



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Tensile test

Heat No.	Yield stress [PSI]	Tensile strength [PSI]	Elongation 2 in [%]	Ys/Ts
B07	C11	C12	C13	C14
max		80000		
min	50000	65000	21.0	
16117/2	56695	73805	42.2	0.77
16123/1	51620	71630	37.0	0.72
16123/2	52780	72935	43.6	0.72
16124/1	51185	70760	34.3	0.72
16124/2	53650	72355	43.6	0.74
16125	51910	71630	39.6	0.72

B14

Description of goods "Prime Steel Profiles"

Material for galvanization. Si: 0.14% - 0.25%

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Z02

Oct 28, 2011