

<b>A01</b> Tata Steel IJmuiden BV Nenckebachstraat 1 1951 JZ Velsen Noord Postbus 10000 1970 CA IJmuiden The Netherlands Telephone: 0251-492110 Company Trade Register 34040331 E-mail : info.testing@tatasteel.com		<b>A07.A09 Reference</b> 32779		<b>A02</b> Inspection certificate 3.1, EN10204.  B01.B02.B03.B04.B15																											
<b>A03 Doc. nr</b> 2015073595 00		<b>Hot rolled dry, Coil, S355MC, YMPRESS WG S. Mill edges. Suitable for: Cutting into sheet.</b>																													
<b>A06 Customer/Consignee</b> OY ALUSTEEL AB TELAKKATIE 4  23500 UUSIKAUPUNKI FINLAND		<b>Tolerance EN 10051 : 2010 (E) (Width tolerance +20/-0 mm) Dev.Tol. (Thickness tolerance +0.22/-0.22 mm).          PRODUCE AND TEST ACCORDING TO EN 10149-2</b>		<b>Z04</b>																											
<b>A08 Order nr.</b> 53947 D		<b>A11 Dispatch note</b> 67326				<b>A10 Transport</b> ROBIJN																									
<b>B09.B10.B11 Dimensions</b> 1500 mm X 15 mm		<b>TENSILE TEST</b>										<b>HARDNESS</b>		<b>IMPACT TEST AND OTHER TESTS</b>																	
<b>B07</b>	<b>B15</b>	<b>B08</b>	<b>B07</b>	<b>C01</b>	<b>C01/</b>	<b>C10</b>	<b>B05</b>	<b>C05</b>	<b>C11</b>	<b>C11</b>	<b>C11</b>	<b>C12</b>	<b>C13</b>	<b>C13</b>	<b>C16</b>	<b>C17</b>	<b>C18</b>	<b>C32</b>	<b>C01/</b>	<b>C10</b>	<b>B05</b>	<b>C41</b>	<b>C40.C60.C65</b>	<b>C05</b>	<b>C44</b>	<b>C42</b>	<b>C42</b>	<b>C42</b>	<b>C43</b>	<b>C95</b>	
PROD.-IDENT	MASS kg	NR	CAST NR.		CD2			Temp °C	ReH MPa	ReL MPa	Rp MPa	Rm MPa	A %	A %	ReH/Rm %	r-value	n-value		CD2			mm		Temp °C	ind.	ind.	ind.	mean	ASTM E-112		
1989103	31720	1	R3989	32	1L	P		+ 20	395			512	28.0		77																
1989104	31640	1	"	32	1L	P		+ 20	364			491	28.4		74																
1989105	31620	1	"	32	1L	P		+ 20	384			517	29.2		74																
1989106	31580	1	"	32	1L	P		+ 20	401			511	33.6		78																
<b>TOTAL</b>		126560		4																											
<b>CHEMICAL COMPOSITION in %</b>																										<b>C44</b> 1: J/cm <sup>2</sup> 2: J 3: Later. exp. (mm)		<b>4: Contraction (%)</b> 5: Shear area (%)			
<b>B07</b>	<b>B07</b>	<b>C71</b>	<b>C72</b>	<b>C73</b>	<b>C74</b>	<b>C75</b>	<b>C76</b>	<b>C77</b>	<b>C78</b>	<b>C79</b>	<b>C80</b>	<b>C81</b>	<b>C82</b>	<b>C83</b>	<b>C84</b>	<b>C85</b>	<b>C86</b>	<b>C87</b>	<b>C88</b>	<b>C89</b>											
CAST NR.	PROD.-IDENT	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Nb	V	N	B	C-eq	Al-ZO	Sn	Ti	C-eq1											
R3989		.057	1.316	.013	.005	0.017	0.033	.015	0.025	0.024	.005	.035	.005	.0032	.0000		0.031	.004	.002	.286											
<b>C-eq1: C + Mn/6 + (Cr + Mo + V)/5 + (Ni + Cu)/15</b>																					<b>C01</b> 1:1=Top 2:1=Edge 3=Bottom 1=Surface 2=Middle 3=Surface L=Longitudinal I=Transverse Z=in Thicken dir D=in Diagonal dir		<b>C10</b> P=prismatical C=cylindrical								
																					<b>C70 STEELMAKING PROCESS: B0</b>		<b>Page 1 of 1</b>								
												<b>Z05</b> Stamp of the expert :								<b>Z02</b> Tata Steel IJmuiden BV Test House, IJmuiden  SIMON BRAAM MANAGER TESTING  											
												<b>B06</b>		<b>A04</b>																	
<b>Z01</b> We certify that the delivery complies with the order prescriptions.																															