

SSAB EMEA AB, SE-781 84 BORLÄNGE, Sweden

Inspection certificate EN 10 204 - 3.1	A02	Issuing department Quality inspection	A05	Purchaser order no st#27287	A07	Our order no 800844-3	A08	Invoice no 2594786	A19	Certificate no and date 14870063 2014-06-05	A03		
Purchaser ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A11	24574	Product HR pickled wide strip in coils	B01	Marking Manufacturer, MATERIAL ID	B06	Standard/rules EN 10149-2 Steel grade S355MCD EN 10149-2	B02	B12	Deliv. Cond.	B04	Internal code	B16
			Quantity 1	B08	Dimensions [mm] T 8 W 1500 L 0	B09-B11	Weight [kg] 26660						
			Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A06	Customer marks								B15
MATERIAL ID 60-8530-556818													B07

Chemical composition																																		
Heat no 60-8530	C	Si	.01	Mn	.60	P	.006	S	.004	Cr	.05	Ni	.05	Mo	.02	V	.01	Ti	.00	Cu	.01	Al	.033	Nb	.033	B	.0002	N	.005	Cekv	.18	C71-C92	Carbon equivalent etc Cekv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5	C93-C99

Testtype	C04	Millcode	C00	Specimen position	C01	Direc- tion	C02	Treat- ment	B05	Specimen type	C10	Temp [degr C]	C03	Test results																					
														Delivery condition	Reh [MPa]	C11	Rm [MPa]	C12	A5 [%]	C13	E [J]	C42	E [J]	C43	Ave [J]										
Tensile test	BBR163	Top end	Longitudinal	Longitudinal	Rectangular 380x40	-20	379	452	34,0	191	218	198	203																						
Impact test	BBR164	Top end	Longitudinal	Charpy-V 10x7.5																															
Bend test	BBR165	Top end	Transvers	Rectangular 300x25																															

Production time: 2014-05-18

It is hereby certified that the material described above complies with the requirements of the order.	Z02	This certificate is produced with EDP and valid without signature	Z01	A04
		Material Testing/ L Smedh/ M Eriksson/ L Söderqvist		

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Inspection certificate EN 10 204 - 3.1	A02	Issuing department Quality Inspection	A05	Purchaser order no sif#27287	A07	Our order no 800844-3	A08	Invoice no 2596134	A19	Certificate no and date 14881344 2014-06-11	A03
Purchaser ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A11	24574	Product HR pickled wide strip in coils	B01	Marking Manufacturer, MATERIAL ID	B06	Standard/rules EN 10149-2	B04	S355MCD EN 10149-2	B02	
			Quantity B08 1	Dimensions [mm] T 8 W 1500 L 0	B09-B11	Weight [kg] 26420	B12	Deliv. Cond.	B04	Internal code	B16
			Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND		A06	Customer marks					B15
MATERIAL ID 60-8528-556819											B07

Chemical composition												C71-C92	Carbon equivalent etc	C93-C99							
Heat no 60-8528	C	Si	Mn	P	S	Cr	Ni	Mo	V	Ti	Cu	Al	Nb	B	N	Cekv	Cekv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5				
	.066	.01	.56	.007	.006	.06	.05	.02	.01	.00	.01	.032	.034	.0002	.005	.18					
Testtype	C04	Millcode	C00	Specimen position	C01	Direction	C02	Treatment	B05	Specimen type	C10	Temp [degr C]	C03	Test results							
Tensile test	BBR149	Top end	Longitudinal	Delivery condition	380x40	Rectangular								C11	R _{eh} [MPa]	C12	R _m [MPa]	C13	A ₅ [%]		
															371	446	32.0				
Impact test	BBR150	Top end	Longitudinal	Delivery condition	Charpy-V	10x7.5	-20							C42	E [J]	C42	E [J]	C42	E [J]	C43	Ave [J]
															184	188	200				191
Bend test	BBR151	Top end	Transvers	Delivery condition	Rectangular	300x25								C50	The test is satisfactory						

Production time: 2014-05-18

It is hereby certified that the material Z02 described above complies with the requirements of the order.		This certificate is produced with EDP Z01 and valid without signature		Material Testing/ L.Smedh/ M.Eriksson/ L.Söderqvist		A22	A04
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