

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#28827	A07	Our order no 820711-1	A08	Invoice no 2630135	A19	Certificate no and date 15119352 2014-11-05	A03
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Purchaser ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A11	Product HR pickled wide strip in coils	B01	Marking Manufacturer, MATERIAL ID	B06	Standard/rules EN 10149-2	B02		
	24574	Quantity 1	B08	Dimensions [mm] T 10 W 1500 L 0	B09-B11	Weight [kg] 24310	B12	Deliv. Cond. B04	Internal code B16
		Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A06	Customer marks	B15				
MATERIAL ID 29-1145-604884							B07		

Chemical composition										C71-C92	Carbon equivalent etc	C93-C99					
Heat no 29-1145	C .069	Si .01	Mn .59	P .008	S .004	Cr .02	Ni .03	Mo .00	V .01	Ti .00	Cu .01	Al .051	Nb .034	B .0001	N .003	Cekv .18	$Cekv = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$

Testtype	Millcode	Specimen position	Direction	Treatment	Specimen type	Temp [degr C]	Test results					
Tensile test	BJR562	Top end	Longitudinal	Delivery condition	Rectangular 380x40		C11 Reh [MPa] 422	C12 Rm [MPa] 506	C13 A5 [%] 33,5			
Impact test	BJR563	Top end	Longitudinal	Delivery condition	Charpy-V 10x7.5	-20	C42 E [J] 217	C42 E [J] 215	C42 E [J] 220	C43 Ave [J] 217		
Bend test	BJR564	Top end	Transvers	Delivery condition	Rectangular 300x25		C50 The test is satisfactory					

Production time: 2014-11-03

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	A22	A04
		Material Testing/ L Smedh/ M Eriksson/ L Söderqvist			