

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#27932	A07	Our order no 807866-3	A08	Invoice no 2612592	A19	Certificate no and date 15004879 2014-09-01	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 6 W 1500 L 0	B09-B11	Weight [kg] 27120	B12	Deliv. Cond. B04	Internal code B16	
		Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A06	Customer marks	B15					
MATERIAL ID 29-1413-579790										B07

Chemical composition										C71-C92	Carbon equivalent etc	C93-C99						
Heat no 29-1413	C .072	Si .01	Mn .59	P .008	S .004	Cr .03	Ni .03	Mo .00	V .01	Ti .00	Cu .01	Al .043	Nb .037	B .0000	N .002	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	BFG384	Top end	Longitudinal	Delivery condition	Rectangular 380x40		C11 Reh [MPa] 452	C12 Rm [MPa] 524	C13 A5 [%] 38,5		
Impact test	BFG385	Top end	Longitudinal	Delivery condition	Charpy-V 10x5	-20	C42 E [J] 102	C42 E [J] 97	C42 E [J] 98	C43 Ave [J] 99	
Bend test	BFG386	Top end	Transvers	Delivery condition	Rectangular 300x25		C50 The test is satisfactory				

Production time: 2014-09-01

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			