

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#27188	A07	Our order no 799883-5	A08	Invoice no 2589488	A19	Certificate no and date 14837462 2014-05-14	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 8 W 1500 L 0	B09-B11	Weight [kg] 11790	B12	Deliv. Cond. B04	Internal code B16	
		Consignee ALUSTEEL OY AB TELAKKATIE 4 FI-23500 UUSIKAUPUNKI FINLAND	A06	Customer marks	B15					
MATERIAL ID 60-8491-554348										B07

Chemical composition										C71-C92	Carbon equivalent etc	C93-C99					
Heat no 60-8491	C .063	Si .01	Mn .59	P .007	S .003	Cr .05	Ni .04	Mo .02	V .01	Ti .00	Cu .00	Al .030	Nb .031	B .0002	N .005	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	BBE277	Top end	Longitudinal	Delivery condition	Rectangular 380x40		C11 Reh [MPa] 387	C12 Rm [MPa] 463	C13 A5 [%] 31,0			
Impact test	BBE278	Top end	Longitudinal	Delivery condition	Charpy-V 10x7.5	-20	C42 E [J] 189	C42 E [J] 176	C42 E [J] 114	C43 Ave [J] 160		
Bend test	BBE279	Top end	Transvers	Delivery condition	Rectangular 300x25		C50 The_test_is satisfactory -					

Production time: 2014-05-09

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			