

SSAB EMEA AB, SE-781 84 BORLÄNGE, Sweden A01											
Inspection certificate EN 10 204 - 3.1	A02	Issuing department Quality inspection	A05	Purchaser order no 1806	A07	Our order no 146356-3	A08	Invoice no 2923298	A19	Certificate no and date 16905581 2017-11-02	A03

Purchaser A11 19586 SWEDISH STEEL AB MEXICO BATALLON SAN PATRICIO:109 LOC 403 MX-66269 GARZA GARCIA MEXICO	Product Hot rolled sheets		B01	Marking Manufacturer, MATERIAL ID			B06	Customer marks		B15	
	Quantity 6	B08	Dimensions [mm] T 6,4 W 1248 L 3048		B09-B11	Weight [kg] 1170	B12	Deliv. Cond.	B04	Internal code	B16
	Consignee SWEDISH STEEL AB MEXICO BATALLON SAN PATRICIO 109 LOC 403 MX-66269 GARZA GARCIA MEXICO			A06	Standard/rules SSAB Steel grade HARDOX 450			B02			


MATERIAL ID 61-5832-214136-10	B07
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Chemical composition															C71-C92	Carbon equivalent etc $C_{eq} = C + Mn/6 + (Ni + Cu)/15 + (Cr + Mo + V)/5$	C93-C99	
Heat no 61-5832	C	Si	Mn	P	S	Cr	Ni	Mo	V	Ti	Cu	Al	Nb	B	N	Ceqv		
	.188	.18	1.27	.011	.001	.25	.05	.04	.01	.01	.01	.042	.001	.0014	.003	.46		

Testtype	C04	Millicode	C00	Specimen position	C01	Direction	C02	Treatment	B05	Specimen type	C10	Temp [degr C]	C03	Test results
Hardness test		DOA256				Longitudinal		Delivery condition						C32 HB Ave 441

Production time: 2017-10-26

Customer article no: ITM61152

This certificate is produced with EDP and valid without signature Material Testing/H Leu / M Eriksson / V Esbelani	Z02	It is hereby certified that the material described above complies with the requirements of the order.	Z01	A22	 www.hardox.com
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