

EN 10 204-3.1 (2004)

Tilaaaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P054607	Vastaanottaja Consignee BE GROUP OY AB VANHANRADANKATU 42 HALLI 2, OVI 5-7 15520 LAHTI FINLAND Asiakkaan merkki Shipping mark MERJA JUUTI	Päivämäärä Date 30.08.2017
Todistus Certificate 31	Laivaus Shipping	Valmistajan merkki Mark of the Manufacturer



Tarkastajan leima Stamp of Inspector	
Vastaanottajan leima Stamp of Surveyor	
Muut leimaukset Other Stamps	

Tuote Product  
CUT LENGTHS

Laatuomerkintä Quality Marking  
Sulatus nro levy nro Cast No. Plate No.  
XXXXX XXX XX

Toleranssit Tolerances  
DIN 59220/00-SEL014E-79(3-10MM)/SFS5500

Positio Item	Mitat mm Dimensions mm	Merkki Marke	Kpl Pcs	Paino kg Weight kg	Sulatus levy nro Cast plate No	SP nro SP No	UT UT	MT MT
H.R. TEAR PLATES IN BUNDLES CUT LENGTHS MILL EDGES GALVANIZING CLASS 1 (SI MAX 0.03%, SI+2.5P <= 0.09%)	001 4.00 X 1500 X 3000 2102204140		125	18915	78968	041	041	

\*\*\* 125 18915 78968 041 041

Täten todistamme, että toimitus on tilausvahvistuksen mukainen.  
We hereby certify that the material described above has been tested and complies with the terms of the order confirmation.

Testaus ja tarkastus Testing and Inspection

*Minna Valkama*

MINNA VALKAMA  
Vältuutettu tarkastaja Authorized inspection representative

Yrityksen nimi Company Name: SSAB Europe Oy  
Kotipaikka Registered Office: HAMEENLINNA

Osoite Address: PL 93, P.O. Box 93  
FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911  
+358 20 5911

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Y-tunnus Business ID: 2389445-7

Tilaaaja Purchaser  
BE GROUP OY AB  
PL 54  
15101 LAHTI FINLAND  
Tilaus nro Order No.  
P054607

Vastaanottaja Consignee  
BE GROUP OY AB  
VANHANRADANKATU 42 HALLI 2, OVI 5-7  
15520 LAHTI FINLAND  
Asiakkaan merkki Shipping mark  
MERJA JUUTI

Päivämäärä Date  
30.08.2017 AMH

Valmistajan merkki  
Mark of the Manufacturer



Tilausvahvistus Order Confirmation  
77459

Laji Grade  
S235JR+AR/TEAR PLATE  
Laatuseilyty Quality Specifications  
HOT ROLLED TEAR PLATES

Lisävaatimukset Additional requirements

Jakuvavalettua happiterästä  
Oxygen steel, continuous casting  
Fully killed, Fine grain practiced

Pos. Item	Sulatus, k. erä nro Cast. test No	T-tila Cond	Vetokoe K2	Tensile test			REH MPa	REL MPa	RT05 MPa	RM MPa	A %	REH /RM	RM * A5	RAZ %			Keskiarvo Average	Tajutuskoee Bend test	Huom Nb	Päästö Tempering °C
				RP02 MPa	°C	1								2	3	K5				

001 78968 041 AR 31

36

310 409

K2: 31=CENTRE, TRANSVERSE AR=AS ROLLED

### Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA

Vällytetty tarkastaja Authorized inspection representative  
Yrityksen nimi Company Name: SSAB Europe Oy  
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ANALYYSITODISTUS ANALYSIS CERTIFICATE  
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT  
 СЕРТИФИКАТ АНАЛИЗА

3/3

A 77459 -001

29.08.2017

Päivämäärä Date Datum Date Дата  
 30.08.2017 AMH

Sulatus nro Cast No Schmelzen Nr. No de coulén № Плавки	Koe nro Test No Pruf Nr. Essai No № Пробки	Positio Item Pos. Poste Поз.	Cekki Ceq Cdq Ceq Cekki	Analyysi % Chemical composition % Zusammensetzung % Composition Chimique % Анализ плавки % (*-ppm)													
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N
78968	001	.21	.073	.01	0.75	.009	.007	.055	.000	.007	.017	.014	0.05	0.04	.005	.004	.0000

CEQ=C+MNI(6+(CR+MO+V)/5+(NI+CU)/15

**Raahе Steel Works**

Testaus ja tarkastus  
 Prüfung und Kontrolle

Испытание и контроль качества  
 Steel manufactured and supplied by Raahе Steel Works is free from radiation.  
 Производимая на металлургическом комбинате «Raahе Steel Works» и поставляемая  
 заказчику сталь не излучает радиации.

*Minna Valkama*

**MINNA VALKAMA**

Valtuutettu tarkastaja  
 Sachverständiger

Authorized inspection representative  
 Inspector autorisé

Уполномоченный инспектор

Yhtiön nimi Company Name: SSAB Europe Oy  
 Kotipaikka Registered Office: HAMPEENLINNA

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Y-tunnus Business ID: 2389445-7

**Declaration of performance**  
(according to EU No 305/2011 and 574/2014)

DoP id. S002\_01

Hot rolled strip product S235JR / 1.0038  
according to  
EN 10025-2:2004  
for bolted, welded and riveted structures.

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SWEDEN  
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TÜV NORD Systems Gmbh & Co. KG  
Grosse Bahnstrasse 31  
D-22525 Hamburg  
Germany  
T: +49 40 8557 2368

Assessment system and verification for constancy  
of performance  
**System 2+**

The performance of the product identified in this document is  
in conformity with the set of declared performance. This declaration of performance  
is issued in accordance with Regulations (EU) No 305/2011 and 574/2014,  
under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:



Jarkko Matkala  
Vice President, hot rolled plate and strip products,  
SSAB Europe Oy, Raahе Steelworks  
Raahе 2015-06-09

# CE

05

0045-CPR-0573  
EN 10025-1:2004

Dop id: S002_01		Performance				Harmonized technical specification
S235JR		Tolerances for nominal width w				
Tolerances on dimensions and shape.	Thickness	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	EN 10025-1:2004
			t ≤ 2,00	± 0,17	± 0,19	
2,00 < t ≤ 2,50	± 0,18	± 0,21	± 0,23	± 0,25		
2,50 < t ≤ 3,00	± 0,20	± 0,22	± 0,24	± 0,26		
3,00 < t ≤ 4,00	± 0,22	± 0,24	± 0,26	± 0,27		
4,00 < t ≤ 5,00	± 0,24	± 0,26	± 0,28	± 0,29		
5,00 < t ≤ 6,00	± 0,26	± 0,28	± 0,29	± 0,31		
6,00 < t ≤ 8,00	± 0,29	± 0,30	± 0,31	± 0,35		
8,00 < t ≤ 10,00	± 0,32	± 0,33	± 0,34	± 0,40		
10,00 < t ≤ 12,50	± 0,35	± 0,36	± 0,37	± 0,43		
12,50 < t ≤ 15,00	± 0,37	± 0,38	± 0,40	± 0,46		
15,00 < t ≤ 25,00	± 0,40	± 0,42	± 0,45	± 0,50		

  

Width	Nominal width w	Tolerances		
		Mill edges	Trimmed edges*	
	w ≤ 1 200	Lower	Upper	Upper
	1 200 < w ≤ 1 850	0	+20	0
	w > 1 850	0	+20	+3
		0	+25	0
				+5
				+6

\* Tolerances for trimmed edges apply to products with nominal thickness t ≤ 10 mm; for nominal thickness t > 10 mm the upper tolerances shall be agreed at the time of enquiry and order.

  

Length	Nominal length l	Tolerances		
		Lower	Upper	Upper
	l < 2 000	0		+10
	2 000 ≤ l < 8 000	0		+0,005 x l
	l ≥ 8 000	0		+40

  

Flatness	Nominal thickness t	Tolerances		
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1 500
	t ≤ 2,00	18	20	25
	2,00 < t ≤ 25	15	18	23

Yield strength	thickness mm	min (Mpa)		max (Mpa)	
		≤ 16	235		-
	> 16 ≤ 25	225		-	

  

Tensile strength	thickness mm	min (Mpa)		max (Mpa)	
		< 3	360		510
	≥ 3 ≤ 25	360		510	

  

Elongation	thickness mm	min %	
		> 1.5 ≤ 2	17
		> 2 ≤ 2.5	18
		> 2.5 < 3	19
	≥ 3 ≤ 25	24	

  

Impact strength	thickness mm	temperature, °C	
		≤ 25	20

  

Weldability CEV	thickness mm	CEV max %	
		≤ 25	0.35

  

Durability (chemical composition)	element	max %	
		C	0.17
		Mn	1.40
		P	0.035
		S	0.035
		N	0.012
Cu	0.55		