

Tilaaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P095183	Tilausvahvistus Order Confirmation 78728K	Vastaanottaja Consignee BE GROUP OY AB VANHANRADANKATU 42 15520 LAHTI FINLAND Asiakkaan merkki Shipping mark P095183	Päivämäärä Date 31.12.2021
Toistutus Certificate 31	Laivaus Shipping	Laatumerkintä Quality Marking S235JR+AR	Valmistajan merkki Mark of the Manufacturer



Toimitustyyppi Delivery type PART DELIVERY	Sulatus nro levy nro X X X X X X X X	Cast No. Plate No. X X X X X X X X	Tarkastajan leima Stamp of Inspector
Tuote Product CUT LENGTHS Laji Grade S235JR+AR/TEAR PLATE EN 10025-2:2019 Laatuselvitys Quality Specifications HOT ROLLED TEAR PLATES	Toleranssit Tolerances DIN 59220/00-SEL014E-79/SFS-EN10363:2016	Tekniset vaatimukset järkeä viralliset määräykset Technical terms of Delivery and/or Official Regulations	Vastaanottajan leima Stamp of Surveyor
Posiio Item Dimensions mm	Mitat mm	Merkki Mark	Muut leimaukset Other Stamps

H.R. TEAR PLATES IN BUNDLES CUT LENGTHS MILL EDGES GALVANIZING CLASS 1 (SI MAX 0.03%, SI+2.5P <= 0.09%) 001 3.00 X 1500 X 3000 2102203900	Kpl Pcs 189	Paino kg Weight kg 21665	Sulatus levy nro Cast plate No 86605	SP nro SP No 041	Turvamerkki Safety mark
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*** 189 21665

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: HAMPEENLINNAOsoite Address: PL 93, P.O. Box 93
FIN-92101 RAAHE, FINLANDPuhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

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.

Tilaaaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
PC095183

Vastaanottaja Consignee
BE GROUP OY AB
VANHANRADANKATU 42
15520 LAHTI FINLAND
Asiakkaan merkki Shipping mark
P095183

Päivämäärä Date
31.12.2021

Valmistajan merkki
Mark of the Manufacturer



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

Lisävaatimukset Additional requirements

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

Pos. Item	Sulatus, k erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test		Tensile test					Tajutuskoee Bend test		Huom Nb	Päästö Tempering °C												
			K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	RM _{0.2} MPa	2			A %	50	80	200	RE / RM	RM * A5	1	RAZ % Z	3	Keskiarvo Average		
001	86605	041	AR	31																					
													411		34										

AR=AS ROLLED

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ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 78728K-001
 30.12.2021

Sulatus nro Cast No	Koe nro Test No	Positio Item	Cekv Ceq	Analysi % Chemical composition %	Chemisch Zusammensetzung % Composition Chimique %	(* -ppm)													
Schmelzen Nr. No de coulén	Prüf Nr. Essai No	Pos. Poste	Ceq Cekv	C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B	
86605	001	.21	.074	.01	0.75	.009	.006	.035	.001	.005	.018	.014	0.05	0.04	.003	.004	.0001		

Päivämäärä Date Datum Date Дата
 31.12.2021 AET

CEQ=C+Mn/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

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

Puhelin Telephone: 020 5911
 +358 20 5911

Y-tunnus Business ID: 2389445-7

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

DoP id. S002_02

Hot rolled strip product S235JR / 1.0038
according to
EN 10025-2:2019
for bolted, welded and riveted structures.

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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_02 EN 10025-2:2019	Performance				Harmonized technical specification
5235JR	Tolerances for nominal width w				
Tolerances on dimensions and shape. Thickness	Thickness				
	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800
	t ≤ 2,00	± 0,17	± 0,19	± 0,21	
	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

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

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

Nominal thickness t	Tolerances		
	w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500
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	min. energy, J
	≤ 25	20	27

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
Ni	0.42	
Cr	0.29	
Mo	0.11	