

Tilaja Purchaser  
TIBNOR OY  
NIINISTÖNKATU 7  
05800 HYVINKÄÄ FINLAND  
Tilaus nro Order No.  
4501479673

Tilausvahvistus Order Confirmation  
75560K

Vastaanottaja Consignee  
TIBNOR OY  
NIINISTÖNKATU 7  
05800 HYVINKÄÄ FINLAND  
Asiakkaan merkki Shipping mark

Päivämäärä Date  
02.02.2024  
Valmistajan merkki  
Mark of the Manufacturer



Todistus Certificate  
31

Laatumerkintä Quality Marking  
S355K2 N S355J2 N

Tarkastajan leima  
Stamp of Inspector

*Mxx*

Toimitustyyppi Delivery type  
TOTAL DELIVERY

Sulatus nro levy nro Cast No. Plate No.  
XXXXX XXX XX XX

Vastaanottajan leima  
Stamp of Surveyor

Muut leimaukset  
Other Stamps

Tuote Product  
CUT LENGTHS  
Laji Grade  
MULTISTEEL/S355K2+N EN 10025-2:2019  
Laatuselvitys Quality Specifications  
STRUCTURAL STEEL,MEETS REQ. OF EN 10025-2 S355K2/J2

Toleranssit Tolerances  
EN 10051:2010

Tekniset vaatimukset ja/tai viralliset määräykset Technical terms of Delivery and/or Official Regulations

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	MT	Turvamerkki Safetymark
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**HOT ROLLED STEEL IN BUNDLES CUT LENGTHS MILL EDGES**

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.;CEV MAX 0,43%,MEETS REQ.OF EN10025-2 S355J0

010	10.00 X 1500 X	3000	4501479673	A005.A02182	STD	76	26930	48169	021	021
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\*\*\* 76 26930

### Raah Steel Works

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

Valtuutettu tarkastaja Authorized inspection representative

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

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

Puhelin Telephone: 020 5911  
+358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser  
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Päivämäärä Date  
02.02.2024 AET

Valmistajan merkki  
Mark of the Manufacturer



Laji Grade  
MULTISTEEL/S355K2+N

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä  
Oxygen steel, continuous casting

Laatuselvitys Quality Specifications

Fully killed, Fine grain practiced

STRUCTURAL STEEL,MEETS REQ. OF EN 10025-2 S355K2/J2

Pos. Item	Sulatus, k.erä nro Cast. test No	T-tila Cond	Vetokoe Tensile test													Taivutuskoe Bend test		Huom Nb	Päästö Tempering °C			
			K2	°C	RP02 MPa	RT05 MPa	REL MPa	REH MPa	1	RM MPa	2	3	A %	50	80	200	RE / RM			RM * A5	1	RAZ %

010 48169 021 NR 31 403 531 27

K2: 31=CENTRE, TRANSVERSE

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k.erä nro Cast. test No	Iskukoe Impact test						FA %			LE (mm)			*Specimen Unbroken			Erikoiskokeet Special tests				Huom Nb	Päästö Tempering °C
		K3	°C	1	2	3	Keskiarvo Average	W (mm)	1	2	3	Keskiarvo Average	1	2	3	Keskiarvo Average	K4	°C	1	2		

010 48169 021 135 -020 102 128 103 111

K3: 135=CH-V/ISO-V(J),7.5X10,CENTRE, LONGIT, KV600

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

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Sulatus nro Cast No Schmelzen Nr. No de coulén	Koe nro Test No Prüf Nr. Essai No	Positio Item Pos. Poste	Cekv Ceq Caq Cég Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*=ppm)												Päivämäärä Date Datum Date	
				C	SI	MN	P	S	AL	NB	V	CU	CR	NI	MO	02.02.2024	AET
48169		010	.39	.146	.18	1.37	.012	.006	.034	.016	.012	.018	0.06	0.05	.006		

CEQ=C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

### Raah Steel Works

Testaus ja tarkastus    Testing and Inspection  
Prüfung und Kontrolle    Essais et Contrôle



#### MINNA VALKAMA

Valtuutettu tarkastaja    Authorized inspection representative  
Sachverständiger    Inspector autorisé

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

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SSAB Europe Oy, Raah Steel Works testing laboratories T002 and T010 are accredited by the FINAS accreditation service (finas.fi), accreditation requirement SFS-EN ISO/IEC 17025.

Steel manufactured and supplied by Raah Steel Works is free from radiation.

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

DoP id. S011\_02

Hot rolled strip product S355K2 / 1.0596  
according to  
EN 10025-2:2019  
for bolted, welded and riveted structures.

SSAB  
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101 20 Stockholm  
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TÜV NORD Systems GmbH & Co. KG  
Grosse Bahnstrasse 31  
D-22525 Hamburg  
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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



05

0045-CPR-0573  
EN 10025-1:2004

Dop id: S011_02 EN 10025-2:2019		Performance				Harmonized technical specification	
S355K2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
		2,50 < t ≤ 3,00	± 0,23	± 0,25	± 0,28		± 0,30
		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	w	Lower	Upper	Lower	Upper		
	w ≤ 1 200	0	+20	0	+3		
	1 200 < w ≤ 1 850	0	+20	0	+5		
	w > 1 850	0	+25	0	+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	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	40
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		

**Declaration of performance**  
(according to UK CPR 2020 No 1359)

DoP id. S011\_02

Hot rolled strip product S355K2 / 1.0596  
according to  
EN 10025-2:2019  
for bolted, welded and riveted structures.

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Website: ssab.com

LRQA Verification Limited (Reg. No. 4929226)  
Registered office  
1 Trinity Park, Bickenhill Lane  
Birmingham  
B37 7ESA

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

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in conformity with the set of declared performance. This declaration of performance  
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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, Raahe Steelworks  
Raahe 2015-06-09



05

0038/CPR/PRJ11100341405/ 01

EN 10025-1:2004

Dop id: S011_02 EN 10025-2:2019		Performance				Harmonized technical specification	
S355K2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
		2,50 < t ≤ 3,00	± 0,23	± 0,25	± 0,28		± 0,30
		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	w	Lower	Upper	Lower	Upper		
	w ≤ 1 200	0	+20	0	+3		
	1 200 < w ≤ 1 850	0	+20	0	+5		
	w > 1 850	0	+25	0	+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	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	40
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		

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

DoP id. S010\_02

Hot rolled strip product S355J2 / 1.0577  
according to  
EN 10025-2:2019  
for bolted, welded and riveted structures.

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

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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



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0045-CPR-0573

EN 10025-1:2004



Dop id: S010_02 EN 10025-2:2019		Performance				Harmonized technical specification	
S355J2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
		2,50 < t ≤ 3,00	± 0,23	± 0,25	± 0,28		± 0,30
		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	w	Lower	Upper	Lower	Upper		
	w ≤ 1 200	0	+20	0	+3		
	1 200 < w ≤ 1 850	0	+20	0	+5		
	w > 1 850	0	+25	0	+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	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		

**Declaration of performance**  
(according to UK CPR 2020 No 1359)

DoP id. S010\_02

Hot rolled strip product S355J2 / 1.0577  
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Raahe 2015-06-09



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0038/CPR/PRJ11100341405/ 01

EN 10025-1:2004

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S355J2	Thickness	Tolerances for nominal width w				EN 10025-1:2004	
Tolerances on dimensions and shapes.	Nominal thickness (mm)	w ≤ 1200	1200 < w ≤ 1500	1500 < w ≤ 1800	w > 1800		
							t ≤ 2,00
	Thickness	2,00 < t ≤ 2,50	± 0,21	± 0,24	± 0,26		± 0,29
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		3,00 < t ≤ 4,00	± 0,25	± 0,28	± 0,30		± 0,31
		4,00 < t ≤ 5,00	± 0,28	± 0,30	± 0,32		± 0,33
		5,00 < t ≤ 6,00	± 0,30	± 0,32	± 0,33		± 0,36
		6,00 < t ≤ 8,00	± 0,33	± 0,35	± 0,36		± 0,40
		8,00 < t ≤ 10,00	± 0,37	± 0,38	± 0,39		± 0,46
		10,00 < t ≤ 12,50	± 0,40	± 0,41	± 0,43		± 0,49
		12,50 < t ≤ 15,00	± 0,43	± 0,44	± 0,46		± 0,53
		15,00 < t ≤ 25,00	± 0,46	± 0,48	± 0,52		± 0,58
Width	Nominal width	Tolerances					
		Mill edges		Trimmed edges*			
	w	Lower	Upper	Lower	Upper		
	w ≤ 1 200	0	+20	0	+3		
	1 200 < w ≤ 1 850	0	+20	0	+5		
	w > 1 850	0	+25	0	+6		
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Length	Nominal length	Tolerances					
		Lower		Upper			
	l < 2 000	0		+10			
	2 000 ≤ l < 8 000	0		+0,005 x l			
l ≥ 8 000	0		+40				
Flatness	Nominal thickness	Tolerances					
		w ≤ 1 200	1 200 < w ≤ 1 500	w > 1500			
	t ≤ 25,00	18	23	28			

Yield strength	thickness mm	min (Mpa)	max (Mpa)
	≤ 16	355	
	> 16 ≤ 25	345	
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	≥ 3 ≤ 25	470	630
Elongation	thickness mm	min %	
	> 1.5 ≤ 2	14	
	> 2 ≤ 2.5	15	
	> 2.5 < 3	16	
	≥ 3 ≤ 25	20	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 25	-20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 25	0.45	
Durability (chemical composition)	element	max %	
	C	0.20	
	Si	0.55	
	Mn	1.60	
	P	0.025	
	S	0.025	
	N		
	Cu	0.55	
	Ni	0.42	
	Cr	0.29	
Mo	0.11		