

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Tilaus nro Order No.
4501372319

Tilausvahvistus Order Confirmation
13067

Vastaanottaja Consignee
TIBNOR OY
TUOTTAJANTIE 49
60100 SEINÄJOKI FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
30.08.2022

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
S355K2 J2 J0 JR N

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
PART DELIVERY

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

Vastaanottajan leima
Stamp of Surveyor

Muut leimaukset
Other Stamps

Tuote Product
HEAVY PLATES
Laji Grade
S355K2/J2/J0/JR+N EN 10025-2:2019
Laatuselvitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

Toleranssit Tolerances
EN 10029:2010 CLASS A

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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NORMALIZED STEEL PLATES

CEV MAX 0,43%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

060	35.00 X 2450	X	12000	4501372319	B001.A01026	STD	1	8232	20154	022	031
060	35.00 X 2450	X	12000				1	8232	20154	031	031
060	35.00 X 2450	X	12000				1	8232	20154	032	031
060	35.00 X 2450	X	12000				1	8232	20154	033	031

HOT ROLLED STEEL PLATES

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0,41%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

070	10.00 X 2000	X	6000	4501372319	B001.A01659	STD	3	2880	20313	051	053
070	10.00 X 2000	X	6000				3	2880	20313	052	053
070	10.00 X 2000	X	6000				4	3840	20313	053	053
070	10.00 X 2000	X	6000				4	3840	20313	054	053
070	10.00 X 2000	X	6000				4	3840	20315	011	011

*** 22 50208

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
FIN-92101 RAAHE, FINLAND

Puhelin Telephone: 020 5911
+358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser
 TIBNOR OY
 NIINISTÖNKATU 7
 05800 HYVINKÄÄ FINLAND
 Tilaus nro Order No.
 4501372319

 Tilausvahvistus Order Confirmation
 13067

 Vastaanottaja Consignee
 TIBNOR OY
 TUOTTAJANTIE 49
 60100 SEINÄJOKI FINLAND
 Asiakkaan merkki Shipping mark

 Päivämäärä Date
 30.08.2022 AET
 Valmistajan merkki
 Mark of the Manufacturer

 Laji Grade
 S355K2/J2/J0/JR+N

Lisävaatimukset Additional requirements

 Jatkuvalettua happiterästä
 Oxygen steel, continuous casting

Fully killed, Fine grain practiced

Laatuselvitys Quality Specifications

STEEL FOR GENERAL STRUCTURAL PURPOSES

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	2	3	RM MPa	A % 50 80 200	RE / RM	RM * A5	1			2	3	Keskiarvo Average	K5	D = X t				
060	20154	031	N	51						377	509																
070	20313	053	NR	11						437	561																
070	20315	011	NR	11						424	547																

K2: 51=BOTTOM,TRANSV. 11=TOP,TRANSV.

N=NORMALIZED NR=NORMALIZING ROLLING

Pos. Item	Sulatus, k.erä nro Cast. test No	Iskukoe K3	Impact test				Keskiarvo Average	W (mm)	FA %			LE (mm)			*Specimen Unbroken			Erikoiskokeet K4 °C	Special tests	Keskiarvo Average	Huom Nb	Päästö Tempering °C
			°C	1	2	3			1	2	3	1	2	3	1	2	3					
060	20154	031	151	-020	197	198	203	199														
			151	+000	261	246	210	239														
070	20313	053	115	-020	180	191	191	187														
			115	+000	186	200	202	196														
070	20315	011	115	-020	197	197	197	197														
			115	+000	212	204	204	207														

K3: 151=CH-V/ISO-V(J),10X10,BOTTOM,LONGIT,KV600 115=CH-V/ISO-V(J),7.5X10, TOP, LONGIT, KV600

Raah Steel Works

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Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

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

 Osioite Address: PL 93, P.O Box 93
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 Puhelin Telephone: 020 5911
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Y-tunnus Business ID: 2389445-7

Sulatus nro Cast No Schmelzen Nr. No de coulén № Плавки	Koe nro Test No Prüf Nr. Essai No № Пробы	Positio Item Pos. Poste Поз.	Cekv Ceq Caq Cég Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ плавки % (*=ppm)												Päivämäärä Date Datum Date Дата			
				C	SI	MN	P	S	AL	NB	V	CU	CR	NI	MO	30.08.2022			
20154		060	.42	.165	.44	1.43	.010	.003	.034	.039	.007	.016	0.04	0.04	.004	AET			
20313		070	.40	.144	.38	1.40	.015	.003	.032	.014	.009	.014	0.08	0.05	.008				
20315		070	.40	.148	.37	1.40	.014	.005	.035	.010	.007	.020	0.05	0.04	.006				

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

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection Испытание и контроль качества
Prüfung und Kontrolle Essais et Contrôle

Steel manufactured and supplied by Raahe Steel Works is free from radiation.
Производимая на металлургическом комбинате «Raahe Steel Works» и поставляемая
заказчику сталь не излучают радиации.

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative Уполномоченный инспектор
Sachverständiger Inspector autorisé

Yhtiön nimi Company Name: SSAB Europe Oy Osoite Address: PL 93, P.O Box 93
Kotipaikka Registered Office: HÄMEENLINNA 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. P011_02

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

SSAB
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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: P011_02 EN 10025-2:2019		Performance		Harmonized technical specification
S355K2	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	
		$3 \leq t < 5$	-0,3	
	$5 \leq t < 8$	-0,4	+0,8	
	$8 \leq t < 15$	-0,5	+0,9	
	$15 \leq t < 25$	-0,6	+1,0	
	$25 \leq t < 40$	-0,7	+1,3	
	$40 \leq t < 80$	-0,9	+1,7	
	$80 \leq t < 150$	-1,1	+2,1	
$150 \leq t < 250$	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
		Lower	Upper	
	$t < 40$	0	+20	
	$40 \leq t < 150$	0	+25	
	$150 \leq t < 400$	0	+30	
Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order				
Length	Nominal length	Tolerances		
	l	Lower	Upper	
	$l < 4000$	0	+20	
	$4000 \leq l < 6000$	0	+30	
	$6000 \leq l < 8000$	0	+40	
	$8000 \leq l < 10\ 000$	0	+50	
	$10\ 000 \leq l < 15\ 000$	0	+75	
	$15\ 000 \leq l < 20\ 000$	0	+100	
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness t	Measuring length		
	t	1000	2000	
	$3 \leq t < 5$	9	14	
	$5 \leq t < 8$	8	12	
	$8 \leq t < 15$	7	11	
	$15 \leq t < 25$	7	10	
	$25 \leq t < 40$	6	9	
	$40 \leq t < 250$	5	8	

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
$> 200 \leq 250$	275		
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		≤ 30	> 30
	C, max	0,20	0,22
	Si, max	0,55	
	Mn, max	1,60	
	P, max	0.025	
	S, max	0.025	
	N, max		
	Cu, max	0.55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

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

DoP id. P010_02

Hot rolled Plate 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+

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: P010_02 EN 10025-2:2019		Performance		Harmonized technical specification
S355J2	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	
		$3 \leq t < 5$	-0,3	
	$5 \leq t < 8$	-0,4	+0,8	
	$8 \leq t < 15$	-0,5	+0,9	
	$15 \leq t < 25$	-0,6	+1,0	
	$25 \leq t < 40$	-0,7	+1,3	
	$40 \leq t < 80$	-0,9	+1,7	
	$80 \leq t < 150$	-1,1	+2,1	
$150 \leq t < 250$	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
		Lower	Upper	
	$t < 40$	0	+20	
	$40 \leq t < 150$	0	+25	
	$150 \leq t < 400$	0	+30	
Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order				
Length	Nominal length	Tolerances		
	l	Lower	Upper	
	$l < 4000$	0	+20	
	$4000 \leq l < 6000$	0	+30	
	$6000 \leq l < 8000$	0	+40	
	$8000 \leq l < 10\ 000$	0	+50	
	$10\ 000 \leq l < 15\ 000$	0	+75	
$15\ 000 \leq l < 20\ 000$	0	+100		
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness t	Measuring length		
	t	1000	2000	
	$3 \leq t < 5$	9	14	
	$5 \leq t < 8$	8	12	
	$8 \leq t < 15$	7	11	
	$15 \leq t < 25$	7	10	
	$25 \leq t < 40$	6	9	
	$40 \leq t < 250$	5	8	

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
$> 200 \leq 250$	275		
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	-20	27
	$> 150 \leq 250$	-20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		≤ 30	> 30
	C, max	0,20	0,22
	Si, max	0,55	
	Mn, max	1,60	
	P, max	0.025	
	S, max	0.025	
	N, max		
	Cu, max	0.55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

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

DoP id. P009_02

Hot rolled Plate product S355J0 / 1.0553
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



05

0045-CPR-0573
EN 10025-1:2004

Dop id: P009_02 EN 10025-2:2019		Performance		Harmonized technical specification
S355J0	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	
		$3 \leq t < 5$	-0,3	
	$5 \leq t < 8$	-0,4	+0,8	
	$8 \leq t < 15$	-0,5	+0,9	
	$15 \leq t < 25$	-0,6	+1,0	
	$25 \leq t < 40$	-0,7	+1,3	
	$40 \leq t < 80$	-0,9	+1,7	
	$80 \leq t < 150$	-1,1	+2,1	
$150 \leq t < 250$	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
		Lower	Upper	
	$t < 40$	0	+20	
	$40 \leq t < 150$	0	+25	
	$150 \leq t < 400$	0	+30	
Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order				
Length	Nominal length	Tolerances		
	l	Lower	Upper	
	$l < 4000$	0	+20	
	$4000 \leq l < 6000$	0	+30	
	$6000 \leq l < 8000$	0	+40	
	$8000 \leq l < 10\ 000$	0	+50	
	$10\ 000 \leq l < 15\ 000$	0	+75	
$15\ 000 \leq l < 20\ 000$	0	+100		
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness t	Measuring length		
	t	1000	2000	
	$3 \leq t < 5$	9	14	
	$5 \leq t < 8$	8	12	
	$8 \leq t < 15$	7	11	
	$15 \leq t < 25$	7	10	
	$25 \leq t < 40$	6	9	
	$40 \leq t < 250$	5	8	

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
$> 200 \leq 250$	275		
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	0	27
	$> 150 \leq 250$	0	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		≤ 30	> 30
	C, max	0,20	0,22
	Si, max	0,55	
	Mn, max	1,60	
	P, max	0.030	
	S, max	0.030	
	N, max	0,012	
	Cu, max	0.55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	

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

DoP id. P008_02

Hot rolled Plate product S355JR / 1.0045
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



05

0045-CPR-0573
EN 10025-1:2004

Dop id: P008_02 EN 10025-2:2019		Performance		Harmonized technical specification
S355JR	Thickness	Tolerances on the nominal thickness (acc. EN 10029 Class A unless otherwise stated)		EN 10025-1:2004
Tolerances on dimensions and shapes.	Nominal thickness (mm)	Lower	Upper	
		$3 \leq t < 5$	-0,3	
	$5 \leq t < 8$	-0,4	+0,8	
	$8 \leq t < 15$	-0,5	+0,9	
	$15 \leq t < 25$	-0,6	+1,0	
	$25 \leq t < 40$	-0,7	+1,3	
	$40 \leq t < 80$	-0,9	+1,7	
	$80 \leq t < 150$	-1,1	+2,1	
$150 \leq t < 250$	-1,2	+2,4		
Width	Nominal thickness	Tolerances		
		Lower	Upper	
	$t < 40$	0	+20	
	$40 \leq t < 150$	0	+25	
	$150 \leq t < 400$	0	+30	
Tolerances on width for plates with untrimmed edges (NK) shall be the subject of agreement between the manufacturer and purchaser at the time of enquiry and order				
Length	Nominal length	Tolerances		
	l	Lower	Upper	
	$l < 4000$	0	+20	
	$4000 \leq l < 6000$	0	+30	
	$6000 \leq l < 8000$	0	+40	
	$8000 \leq l < 10\ 000$	0	+50	
	$10\ 000 \leq l < 15\ 000$	0	+75	
$15\ 000 \leq l < 20\ 000$	0	+100		
Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.				
Flatness	Nominal thickness t	Measuring length		
	t	1000	2000	
	$3 \leq t < 5$	9	14	
	$5 \leq t < 8$	8	12	
	$8 \leq t < 15$	7	11	
	$15 \leq t < 25$	7	10	
	$25 \leq t < 40$	6	9	
	$40 \leq t < 250$	5	8	

Yield strength	thickness mm	min (Mpa)	
	≤ 16	355	
	$> 16 \leq 40$	345	
	$> 40 \leq 63$	335	
	$> 63 \leq 80$	325	
	$> 80 \leq 100$	315	
	$> 100 \leq 150$	295	
	$> 150 \leq 200$	285	
$> 200 \leq 250$	275		
Tensile strength	thickness mm	min (Mpa)	max (Mpa)
	< 3	510	680
	$\geq 3 \leq 100$	470	630
	$> 100 \leq 150$	450	600
	$> 150 \leq 250$	450	600
Elongation	thickness mm	min %	
	$\geq 3 \leq 40$	20	
	$> 40 \leq 63$	19	
	$> 63 \leq 100$	18	
	$> 100 \leq 150$	18	
	$> 150 \leq 250$	17	
Impact strength	thickness mm	temperature, °C	min. energy, J
	≤ 150	20	27
	$> 150 \leq 250$	20	27
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
	C, max	0,24	
	Si, max	0,55	
	Mn, max	1.60	
	P, max	0.035	
	S, max	0.035	
	N, max	0,012	
	Cu, max	0.55	
	Ni, max	0,42	
	Cr, max	0,29	
	Mo, max	0,11	