

Tilaja Purchaser  
TIBNOR OY  
NIINISTÖNKATU 7  
05800 HYVINKÄÄ FINLAND  
Tilaus nro Order No.  
4501450534

Tilausvahvistus Order Confirmation  
19938

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

Päivämäärä Date  
25.09.2023

Valmistajan merkki  
Mark of the Manufacturer



Todistus Certificate  
31

Laatumerkintä Quality Marking  
S355K2 N

Tarkastajan leima  
Stamp of Inspector

*Mxx*

Toimitustyyppi Delivery type  
PART DELIVERY

S355J2 N S355J0 N S355JR N  
Sulatus nro levy nro Cast No. Plate No.  
X X X X X X X X X X X X

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  
SSAB,EN 10029:2010 THICK. 3/4 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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**HOT ROLLED STEEL PLATES**

FLANGEABILITY (C) ACC.TO STEEL GRADE SPEC.;CEV MAX 0.41%,SI 0.14-0.25% (OPT.5)

SURFACE CONDITION EN 10 163-2:2005 CLASS A3

040	12.00 X 2000	X	6000	4501450534	B001.A01695	STD	2	2304	41314	023	023
040	12.00 X 2000	X	6000				3	3456	41314	025	023

\*\*\* 5 5760

**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  
25.09.2023 MHR

Valmistajan merkki  
Mark of the Manufacturer



Laji Grade  
S355K2/J2/J0/JR+N

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä  
Oxygen steel, continuous casting

Laatuselvitys Quality Specifications

Fully killed, Fine grain practiced

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	RM MPa	2	3	A %	50	80	200	RE / RM			RM * A5	1	RAZ %

040 41314 023 NR 11 472 561 29

K2: 11=TOP,TRANSV.

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		

040 41314 023 115 -020 158 125 137 140  
115 +000 175 157 159 164

K3: 115=CH-V/ISO-V(J),7.5X10, TOP, 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 Céq Cekv	Analyysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % (*=ppm)															Päivämäärä Date Datum Date		
				C	SI	MN	P	S	AL	NB	V	TI	CU	CR	NI	MO	N	B	25.09.2023		MHR
41314		040	.40	.151	.19	1.39	.009	.005	.044	.034	.008	.001	.013	0.04	0.04	.003	.003	.0000			

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

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

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



### MINNA VALKAMA

Valtuutettu tarkastaja    Authorized inspection representative  
Sachverständiger    Inspector autorisé

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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  
P.O Box 70  
101 20 Stockholm  
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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



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)	
	$\leq 16$	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
	$\leq 150$	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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 UK CPR 2020 No 1359)

DoP id. P011\_02

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

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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+**

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, Raahe Steelworks  
Raahe 2015-06-09



05

0038/CPR/PRJ11100341405/ 01

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)	
	$\leq 16$	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
	$\leq 150$	-20	40
	$> 150 \leq 250$	-20	33
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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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101 20 Stockholm  
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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: 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)	
	$\leq 16$	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
	$\leq 150$	-20	27
	$> 150 \leq 250$	-20	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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 UK CPR 2020 No 1359)

DoP id. P010\_02

Hot rolled Plate product S355J2 / 1.0577  
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for bolted, welded and riveted structures.

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



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0038/CPR/PRJ11100341405/ 01

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	
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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)	
	$\leq 16$	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	
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	$\geq 3 \leq 100$	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
	$\leq 150$	-20	27
	$> 150 \leq 250$	-20	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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+**

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, Raahe Steelworks  
Raahe 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)	
	$\leq 16$	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
	$\leq 150$	0	27
	$> 150 \leq 250$	0	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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 UK CPR 2020 No 1359)

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+**

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, Raahe Steelworks  
Raahe 2015-06-09



05

0038/CPR/PRJ11100341405/ 01

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)	
	$\leq 16$	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
	$\leq 150$	0	27
	$> 150 \leq 250$	0	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	0,45	
	$> 30 \leq 40$	0,47	
	$> 40 \leq 150$	0,47	
	$> 150 \leq 250$	0,49	
Durability (chemical composition)	element	Value	
		$\leq 30$	$> 30$
	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)	
	$\leq 16$	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
	$\leq 150$	20	27
	$> 150 \leq 250$	20	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	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	

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

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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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: 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		+0,7
	Thickness	$5 \leq t < 8$	-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)	
	$\leq 16$	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	
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Tensile strength	thickness mm	min (Mpa)	max (Mpa)
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	$\geq 3 \leq 100$	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
	$\leq 150$	20	27
	$> 150 \leq 250$	20	27
Weldability CEV	thickness mm	CEV max %	
	$\leq 30$	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	