

Tilaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P093345

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark

Tilausvahvistus Order Confirmation
26922

Päivämäärä Date
27.10.2021
Valmistajan merkki
Mark of the Manufacturer



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

Laji Grade
SSAB MULTISTEEL SN
Laatuselitys Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test		Tiljia			RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C
			K2	°C	RP02 MPa	RT05 MPa	REL MPa			RFH MPa	1	2			
003	82836	442	NR	11								461	577	25	
003	82837	040	NR	11								491	589	25	
005	83156	012	NR	11								448	536	28	

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)			Keskianvo Average			Erikoiskokeet Special tests			Huom Nb	Päästö Tempering °C
					1	2	3	1	2	3	K4	1	2		
003	82836	442	113	-020	47	60	65	57							
			113	+000	84	71	72	76							
003	82837	040	113	-020	78	76	78	77							
			113	+000	77	86	91	85							
005	83156	012	111	-020	191	191	187	190							
			111	+000	233	209	215	219							

K3: 113=CH-V/ISO-V(J),5X10.TOP, LONGIT;KV600 111=CH-V/ISO-V(J),10X10.TOP, LONGIT;KV600

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

Raabe Steel Works

Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA
Valtuutettu tarkastaja Authorized inspection representative

Osoite Address:
SSAB Europe Oy
HAMPEENLINNA

Puhelin 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.



ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 A 26922 -003 A
 25.10.2021

Päivämäärä Date Datum Date Дата
 27.10.2021

TYPE

(* -ppm)

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

Cekiv Ceq Ccaq Cceg Cekiv

Positio Item Pos. Poste

Koe nro Test No Prüf Nr. Essai No № Пробы

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

C SI MN P S AL NB V TI CU CR NI MO N B

82836 003 .40 .147 .19 1.44 .009 .009 .040 .030 .007 .002 .013 0.04 0.04 .004 .003 .0001

82837 003 .40 .154 .21 1.41 .011 .008 .040 .034 .008 .002 .023 0.04 0.04 .003 .004 .0002

83156 005 .40 .152 .20 1.42 .010 .006 .031 .038 .011 .002 .019 0.04 0.04 .003 .004 .0001

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

Raabe Steel Works

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

Испытание и контроль качества

Steel manufactured and supplied by Raabe Steel Works is free from radiation.
 Производимая на металлургическом комбинате «Raabe Steel Works» и поставляемая заказчику сталь не излучает радиацию.

Minna

MINNA VALKAMA

Valtuutettu tarkastaja
 Sachverständiger

Authorized inspection representative
 Inspektor autorisè

Уполномоченный инспектор

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

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

Tilaaja Purchaser BE GROUP OY AB PL 54 15101 LAHTI FINLAND Tilaus nro Order No. P093345	Vastaanottaja Consignee BE GROUP OY AB PAAKARLANTIE 3 20240 TURKU FINLAND Asiakkaan merkki Shipping mark	Päivämäärä Date 27.10.2021
Tilauksen vahvistus Order Confirmation 26922	Laatu- ja toimitustiedot Quality Marking S355K2 N 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 X X X X	Valmistajan merkki Mark of the Manufacturer
Tuotus Certificate 31	Laivaus Shipping	Tarkastajan leima Stamp of Inspector Vastaanottajan leima Stamp of Surveyor Muut leimaukset Other Stamps



Mxx

Toimitustyyppi Delivery type
PART DELIVERY

Tuote Product
HEAVY PLATES

Laji Grade
S355K2/J2/J0/JR+N EN 10025-2:2019

Laatu- ja toimitustiedot Quality Specifications
STEEL FOR GENERAL STRUCTURAL PURPOSES

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

Toleranssit Tolerances
SSABEN 10029:2010 THICK. 3/4 CLASS A

Positio Item	Mitat mm Dimensions mm	Merkki Mark	Kpl Pcs	Paino kg Weight kg	Sulatus levy nro Cast plate No	SP nro SP No	UT UT	MT MT	Turvamerkki Safety mark
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HOT ROLLED STEEL PLATES

FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

003	8.00 X 2000 X 6000	X	6000	2100143955					
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003	8.00 X 2000 X 6000	X	6000		3072	82836	012	442	
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003	8.00 X 2000 X 6000	X	6000		3072	82836	013	442	
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003	8.00 X 2000 X 6000	X	6000		2304	82836	054	442	
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003	8.00 X 2000 X 6000	X	6000		3072	82836	055	442	
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003	8.00 X 2000 X 6000	X	6000		3072	82836	442	442	
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003	8.00 X 2000 X 6000	X	6000		3072	82836	443	442	
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003	8.00 X 2000 X 6000	X	6000		3072	82837	040	040	
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003	8.00 X 2000 X 6000	X	6000		2304	82837	041	040	
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003	8.00 X 2000 X 6000	X	6000		3072	82837	042	040	
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003	8.00 X 2000 X 6000	X	6000		3072	82837	043	040	
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FLANGEABILITY (C) ACC. TO STEEL GRADE SPEC.; CEV MAX 0.41%, SI 0.15-0.25%

SURFACE CONDITION EN 10 163-2:2005 CLASS B3

005	15.00 X 2000 X 6000	X	6000	2100144140					
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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005	15.00 X 2000 X 6000	X	6000		5760	83156	012	012	
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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.

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

Minna Valkama

MINNA VALKAMA

Vaiuutettu tarkastaja Authorized inspection representative

Yhtiön nimi Company Name: SSAB Europe Oy

Kotipaikka Registered Office: HAMEENLINNA

Osoite Address: PL 93, P.O. Box 93
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+358 20 5911

Y-tunnus Business ID: 2389445-7

Tilaja Purchaser
BE GROUP OY AB
PL 54
15101 LAHTI FINLAND
Tilaus nro Order No.
P093345

Vastaanottaja Consignee
BE GROUP OY AB
PAAKARLANTIE 3
20240 TURKU FINLAND
Asiakkaan merkki Shipping mark

Tilausvahvistus Order Confirmation
26922

Päivämäärä Date
27.10.2021
Valmistajan merkki
Mark of the Manufacturer



Laji Grade
S355K2/J2/J0/JR+N

Lisävaatimukset Additional requirements

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

Laatuseilytykset Quality Specifications STEEL FOR GENERAL STRUCTURAL PURPOSES

Pos. Item	Sulatus k. erä nro Cast. test No	T-tilja Cond	Vetokoe Tensile test	Tensile test			RE / RM	RM * A5	RAZ %			Keskiarvo Average	Huom Nb	Päästö Tempering °C
				RP02 MPa	REL MPa	RFH MPa			1	2	3			
003	82836	442	NR 11											
003	82837	040	NR 11											
005	83156	012	NR 11											

K2: 11=TOP, TRANSV.

NR=NORMALIZING ROLLING

Pos. Item	Sulatus k. erä nro Cast. test No	Iskukoe Impact test	K3	°C	W (mm)	FA %			Keskiarvo Average	LE (mm)	*Specimen Unbroken			Keskiarvo Average	Huom Nb	Päästö Tempering °C
						1	2	3			K4	1	2			
003	82836	442	113	-020	47	60	65	57								
			113	+000	84	71	72	76								
003	82837	040	113	-020	78	76	78	77								
			113	+000	77	86	91	85								
005	83156	012	111	-020	191	191	187	190								
			111	+000	233	209	215	219								

K3: 113=CH-V/ISO-V(J),5X10.TOP, LONGIT;KV600 111=CH-V/ISO-V(J),10X10.TOP, LONGIT, KV600

LE = Poikittainen laajenema Lateral Expansion

FA = Sitkeäturtuman osuus Shear fracture appearance

Raahe Steel Works

Testaus ja tarkastus Testing and Inspection

Minna Valkama

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Syötön nimi Company Name: SSAB Europe Oy
Kotipaikka Registered Office: RAAMEENLINNA

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Y-tunnus Business ID: 2389445-7

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ANALYYSITODISTUS ANALYSIS CERTIFICATE
 ANALYSEBESCHEINIGUNG COMPOSITIO CHIMIQUE CERTIFICAT
 СЕРТИФИКАТ АНАЛИЗА

3/3
 A 26922 -003 B
 25.10.2021

Päivämäärä Date Datum Date Дата
 27.10.2021

TYPE

(* -ppm)

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

Cekiv Ceq Ccaq Ccqv Ceqv

Positio Item Pos. Poste

Koe nro Test No Prüf Nr. Essai No № Пробы

Analysi % Chemical composition % Chemisch Zusammensetzung % Composition Chimique % Анализ сплава %

C SI MN P S AL NB V TI CU CR NI MO N B

003 .40 .147 .19 1.44 .009 .040 .030 .007 .002 .013 0.04 0.04 .004 .003 .0001

003 .40 .154 .21 1.41 .011 .008 .040 .034 .008 .002 .023 0.04 0.04 .003 .004 .0002

005 .40 .152 .20 1.42 .010 .006 .031 .038 .011 .002 .019 0.04 0.04 .003 .004 .0001

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

Raabe Steel Works

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

Испытание и контроль качества

Steel manufactured and supplied by Raabe Steel Works is free from radiation.
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Minna

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative
 Sachverständiger Inspector autorisé

Уполномоченный инспектор

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

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. 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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Website: ssab.com

TÜV NORD Systems Gmbh & Co. KG
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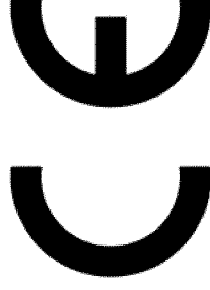
Assessment system and verification for constancy
of performance
System 2+

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	+0,7
	$5 \leq t < 8$	-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
Thickness	$80 \leq t < 150$	-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	
		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)	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 %	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 %	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	Value
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max		1,60
	P, max	0,025	0,025
	S, max		0,025
	N, max		0,55
	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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Germany
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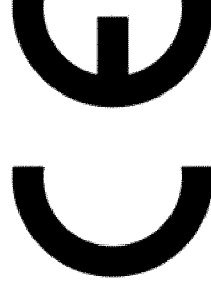
Assessment system and verification for constancy
of performance
System 2+

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	+0,7
		$5 \leq t < 8$		-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 <i>l</i>	Tolerances			
		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 <i>t</i>	Measuring length			
		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	
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
	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	≤ 30	> 30
	Si, max	0,20	0,22
	Mn, max	1,60	
	P, max	0,025	
	S, max	0,025	
	N, max	0,55	
	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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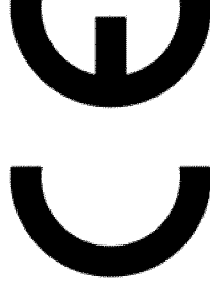
Assessment system and verification for constancy
of performance
System 2+

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, Raahе Steelworks
Raahе 2015-06-09



05

0045-CPR-0573
EN 10025-1:2004

Dop id: P009_02	EN 10025-2:2019	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	+20			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+30			
Length	Nominal length <i>l</i>	Tolerances		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
		$15\ 000 \leq l < 20\ 000$	+100	
		Tolerances on plates with nominal length $l > 20\ 000$ mm shall be agreed at the time of enquiry and order.		
		Flatness	Nominal thickness <i>t</i>	Measuring length
1000	2000			
$3 \leq t < 5$	14			
$5 \leq t < 8$	12			
$8 \leq t < 15$	11			
$15 \leq t < 25$	10			
$25 \leq t < 40$	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	
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	
	C, max	≤ 30	> 30
	Si, max	0,20	0,22
	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

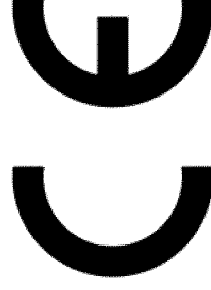
System 2+

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: P008_02	EN 10025-2:2019	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	
		$3 \leq t < 5$	+0,7	
		$5 \leq t < 8$	+0,8	
		$8 \leq t < 15$	+0,9	
		$15 \leq t < 25$	+1,0	
		$25 \leq t < 40$	+1,3	
		$40 \leq t < 80$	+1,7	
		$80 \leq t < 150$	+2,1	
		$150 \leq t < 250$	+2,4	
		Width	Nominal thickness	Tolerances
Lower	Upper			
$t < 40$	0			
$40 \leq t < 150$	+25			
$150 \leq t < 400$	+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		
		Lower	Upper	
		$l < 4000$	+20	
		$4000 \leq l < 6000$	+30	
		$6000 \leq l < 8000$	+40	
		$8000 \leq l < 10\ 000$	+50	
		$10\ 000 \leq l < 15\ 000$	+75	
$15\ 000 \leq l < 20\ 000$	+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	2000	
		$3 \leq t < 5$	14	
		$5 \leq t < 8$	12	
		$8 \leq t < 15$	11	
		$15 \leq t < 25$	10	
		$25 \leq t < 40$	9	
$40 \leq t < 250$	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	
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
Weldability CEV	thickness mm	CEV max %	
	≤ 30	0,45	
	$> 30 \leq 40$	0,47	
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		