

EN 10 204-3.1 (2004)

A 78695 -004

22.05.2023

Tilaja Purchaser
TIBNOR OY
NIINISTÖNKATU 7
05800 HYVINKÄÄ FINLAND
Tilaus nro Order No.
4501426589

Tilausvahvistus Order Confirmation
78695

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

Päivämäärä Date
23.05.2023

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
PART 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

070	10.00 X 1500 X	3000	4501426589	A005.A02182	STD	39	13775	34593	031	031
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*	39	13775
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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

EN 10 204-3.1 (2004)

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22.05.2023

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

Päivämäärä Date
23.05.2023

Valmistajan merkki
Mark of the Manufacturer



Todistus Certificate
31

Laatumerkintä Quality Marking
DX355MCD S355MC

Tarkastajan leima
Stamp of Inspector

Mxx

Toimitustyyppi Delivery type
PART 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
SSAB DOMEX 355MC D/S355MC EN10149-2:2013
Laatuselvitys Quality Specifications
HSF FINE GRAIN STEEL

Toleranssit Tolerances
SSAB TOLERANCE EN10051, THICKN. 2/3 CAT B

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

030	3.00 X 1500 X	3000	4501426589 A005.A02810 STD	25	2655	97644	051	051	
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*	25	2655
**	64	16430
***	64	16430

Raah Steel Works

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Testaus ja tarkastus Testing and Inspection

Minna Valkama

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Tilaus nro Order No.
4501426589

Tilausvahvistus Order Confirmation
78695

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

Päivämäärä Date
23.05.2023 VJS

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 %

070 34593 031 NR 31 396 511 26

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		

070 34593 031 135 -020 108 165 123 132

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

FA = Sitkeämurtuman osuus Shear fracture appearance

LE = Poikittainen laajenema Lateral Expansion

Raah Steel Works

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05800 HYVINKÄÄ FINLAND
Asiakkaan merkki Shipping mark

Päivämäärä Date
23.05.2023 VJS
Valmistajan merkki
Mark of the Manufacturer



Laji Grade
SSAB DOMEX 355MC D/S355MC

Lisävaatimukset Additional requirements

Jatkuvavalettua happiterästä
Oxygen steel, continuous casting

Laatuselvitys Quality Specifications
HSF FINE GRAIN STEEL

Fully killed, Fine grain practiced

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 % 2 3	Keskiarvo Average	K5	D = X t
030	97644 051	TM	32		414							493		36						32	0.5		

K2: 32=CENTRE, LONGITUDINAL
K5: 32=120 MM WIDE BEND TEST

TM=THERMOMECH. TREATED

Raah Steel Works

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Testaus ja tarkastus Testing and Inspection

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative

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Y-tunnus Business ID: 2389445-7

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	23.05.2023	VJS
34593		070	.40	.148	.20	1.41	.008	.008	.035	.015	.006	.016	0.04	0.04	.004		

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

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

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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	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	TI	23.05.2023		VJS	
97644		030	.21	.058	.02	0.81	.009	.005	.042	.027	.007	.001				

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

Raahe Steel Works

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

SSAB Europe Oy, Raahe 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 Raahe Steel Works is free from radiation.

MINNA VALKAMA

Valtuutettu tarkastaja Authorized inspection representative
Sachverständiger Inspector autorisé

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
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Y-tunnus Business ID: 2389445-7

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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Website: ssab.com

TÜV NORD Systems GmbH & Co. KG
Grosse Bahnstrasse 31
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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: 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.

SSAB
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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+

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: 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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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: 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
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, Raahe Steelworks
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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		