

Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.:

01 202 BE/Q-14 0142

Name and address of the
manufacturer:

NLMK DanSteel A/S
Havnevej 33
DK - 3300 Frederiksvaerk

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, Par. 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to
Directive 2014/68/EU:

**QM System acc. to EN 764-5, article 4.2 and
AD 2000-Merkblatt W0**

Audit report no.:

BE/Q-14 0142

Area of validity:

Manufacturer of carbon-manganese, low alloy
or alloy steel plates, see annex to certificate

Manufacturing plant:

NLMK DanSteel A/S
Havnevej 33
DK - 3300 Frederiksvaerk

Valid until:

August 31, 2023

Cologne, February 27, 2021

Dipl.-Ing. (FH) Vera Ruff



TÜV Rheinland Industrie Service GmbH
Notifizierte Stelle für Druckgeräte, Kennnummer: 0035
Am Grauen Stein, D-51105 Köln

E-008-D-Rev22

www.tuv.com

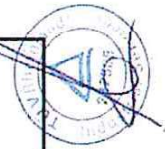
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Scope according to	☒ Directive 2014/68/EU Annex I §4.3	☐ EN 764-4	☒ AD 2000-Merkblatt W0	☐ FPC, Regulation (EU) No. 305/2011 (System 2+)
Manufacturer		Page No..		
Company Name: NLMK DanSteel A/S		1		
Location: Havnevej 33 DK-3300 Frederiksværk (Denmark)		TÜV Rheinland Industrie Service GmbH		
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product
	Havnevej 33 DK-3300 Frederiksværk	DK	03.09.2019	Rev.: 2 of: 6
		Thick-ness mm	Dimensions	Weight max
		from to	from to	1=t / 2=kg
		6a 6b 7a 7b 8a 8b	6a 6b 7a 7b 8a 8b	1=t / 2=kg
				Technical Specifications
				Technical Requirements
				Technical Regulations
				Remarks
1	2	3	4	5
1. Materials according to harmonized European standards (hEN) and European Approval for Materials (EAM) acc. Directive 2014/68/EU				
The use of the materials according to Directive 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.				
1	Ferritic steel P235GH (1.0345); P265GH (1.0425); P295GH (1.0481); P355GH (1.0473);	EN 10028-2	+N	Hot Rolled Plate
2	Fine grain steels P275NH (1.0487); P275NL1 (1.0488); P275NL2 (1.1104); P355N (1.0562); P355NH (1.0565); P355NL1 (1.0566); P355NL2 (1.1106);	EN 10028-3	+N	Hot Rolled Plate
Remarks	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed	+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved +UT = untreated	a	= PMA for the use in pressure equipment in Directive 2014/68/EU necessary

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☐ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)		
Company Name: NLMK DanSteel A/S				Work		Nationality		Page No..		
Location: Havnevej 33 DK-3300 Frederiksvaerk (Denmark)				Havnevej 33 DK-3300 Frederiksvaerk		DK		03.09.2019		
Materials-term Materials-No.				Material Specification		Delivery Cond.		Article Type of Product		
Cur -				Dimensions		Weight max		Technical Specifications Requirements		
				Thick-ness mm		Ø mm		Technical Regulations		
				from to		from to		1=t / 2=kg		
				6a 6b 7a 7b		8a 8b		9		
1				2		3		4		
				5		6		10		
2. Materials according to the AD 2000-Code										
The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material approval. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.										
1	S235JR+N (1.0038) S275JR+N (1.0044)	EN 10025-2	+N	Hot Rolled Plate	5	150		1	64	AD2000 W1
2	S235J2+N (1.0117) S275J2+N (1.0145) S355J2+N (1.0577) S355K2+N (1.0596)	EN 10025-2	+N	Hot Rolled Plate	5	150		1	64	AD2000 W1 AD2000 W10
3	S235JR (1.0038) S275JR (1.0044)	EN 10025-2	+AR	Hot Rolled Plate	5	25		1	64	AD2000 W1
4	P235GH (1.0345); P265GH (1.0425); P295GH (1.0481); P355GH (1.0473);	EN 10028-2	+N	Hot Rolled Plate	5	150		1	64	AD2000 W1 AD2000 W10
Remarks		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved +UT = untreated		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		Certificate 3.1 acc. EN 10204 for grades P235GH and P265GH Inspection Certificate 3.2 acc. EN 10204 is required for P235GH and P355GH Inspection Certificate 3.1 acc. EN 10204 for thickness ≤30mm		



Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☐ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)	
Manufacturer				Work		Nationality		Page No..	
Company Name: NLMK DanSteel A/S				Havnevej 33 DK-3300 Frederiksværk		DK		4	
Location: Havnevej 33 DK-3300 Frederiksværk (Denmark)						Rev.: 2		of: 6	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions Thick-ness mm from to		Weight max 1=t / 2=kg ↓	Technical Specifications Requirements Technical Regulations	
					from to	Up to	res ult		
1	2	3	4	5	6a	6b	7a	7b	8a 8b
2. Materials according to the AD 2000-Code The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.									
5	P275NH (1.0487); P275NL1 (1.0488); P275NL2 (1.1104); P355N (1.0562); P355NH (1.0565); P355NL1 (1.0566); P355NL2 (1.1106).	EN 10028-3 VdTÜV MB 352-1 EN 10028-3 VdTÜV MB 354-1	+N	Hot Rolled Plate	5	200			AD2000 W1 AD2000 W10
The manufacturer is listed in the VdTÜV material data sheet. Inspection Certificate 3.2 acc. EN 10204 is required For thickness ≤30mm the 3.1 certificate is sufficient for grades P355N and P355NH									
6	P460NH (1.8935) P460NL1 (1.8915) P460NL2 (1.8918)	EN 10028-3 VdTÜV MB 357-1	+N	Hot Rolled Plate	5	100			AD2000 W1 AD2000 W10
The manufacturer is listed in the VdTÜV material data sheet. Inspection Certificate 3.2 acc. EN 10204 is required									
Remarks	+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed			+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved +UT = untreated			a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary		



Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☐ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)	
Manufacturer				Work		Nationality		Page No..	
Company Name: NLMK DanSteel A/S				Havnevej 33		DK		5	
Location: Havnevej 33 DK-3300 Frederiksværk (Denmark)				DK-3300 Frederiksværk		Rev.: 2		of: 6	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions		Weight max	Technical Specifications Requirements Technical Regulations	
					Thick-ness mm	Ø mm	1=t / 2=kg		
					from Up to	from Up to	↓	res ult	
1	2	3	4	5	6a	7a	8a	8b	10

2. Materials according to the AD 2000-Code

The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.

7	16Mo3 (1.5415)	EN 10028-2	+N	Plate	5	150		1	64	AD2000W1	Inspection Certificate 3.2 acc. EN 10204 Inspection Certificate 3.1 acc. EN 10204 for thickness ≤ 30mm
8	13MnNi6-3 (1.6217)	EN 10028-4	+N	Plate	5	50		1	64	AD2000 W1 AD2000 W10	Inspection Certificate 3.2 acc. EN 10204 is required
9	Pre-rolled slabs	AD2000-W0 §3.2.1	+UT	Slabs	120	355		1	64		

Remarks	+AT = solution annealed	+NT = normalized and tempered	a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary
	+AR = as rolled	+QT = quenched and tempered	
	+M = thermo mechanical treated	+S = soft annealed	
	+N = normalized or normalizing formed	+SR = stress relieved	
		+UT = untreated	

Scope according to		☒ Directive 2014/68/EU Annex I §4.3		☐ EN 764-4		☒ AD 2000-Merkblatt W0		☐ FPC, Regulation (EU) No. 305/2011(System 2+)	
Manufacturer				Work		Nationality		Page No...	
Company Name: NLMK DanSteel A/S				Havnevej 33		DK		03.09.2019	
Location: Havnevej 33 DK-3300 Frederiksværk (Denmark)				DK-3300 Frederiksværk		Rev.: 2		of: 6	
Cur	Materials-term Materials-No.	Material Specification	Delivery Cond.	Article Type of Product	Dimensions	Weight max	Technical Specifications Requirements	Remarks	
					Thick-ness mm	1=t / 2=kg	Technical Regulations		
					from to	Up to			
1	2	3	4	5	6a 6b 7a 7b	8a 8b	9	10	
3. Materials according to international standards (e. g. ASTM, ASME, IBR etc.) The use of the materials according to DGR 2014/68/EU is bound to the publication of Harmonized European Standards or to the qualification by a European material approval or to the particular material appraisal. With that the manufacturing reliability for equivalent material grades according to other standards (e.g. BS, AFNOR, ASME) is proved. The requirements and limits of the applicable code respectively the PED must be observed for the use of material grades listed in column 2 to 4.									
1	ASTM A516, Grade 60	A516	+N	Plate	5 152	1 64	ASTM A516	a	
2	ASTM A516, Grade 65	A516	+N	Plate	5 152	1 64	ASTM A516	a	
3	ASTM A516, Grade 70	A516	+N	Plate	5 152	1 64	ASTM A516	a	
4	ASME SA516, Grade 60	SA516	+N	Plate	5 152	1 64	ASME SA516	a	
5	ASME SA516, Grade 65	SA516	+N	Plate	5 152	1 64	ASME SA516	a	
6	ASME SA516, Grade 70	SA516	+N	Plate	5 152	1 64	ASME SA516	a	
Results		+AT = solution annealed +AR = as rolled +M = thermo mechanical treated +N = normalized or normalizing formed		+NT = normalized and tempered +QT = quenched and tempered +S = soft annealed +SR = stress relieved +UT = untreated		a = PMA for the use in pressure equipment in Directive 2014/68/EU necessary			

