

No. (A03) 26980 Page 1/4 Date 21.03.2011	No. (A07) MFR/14/10/MH Tranovice 08.12.2010 Purchaser PVK s.r.o. Vrbenska 6 37031 CESKE BUDEJOVICE TSCHJECHISCHE RE	Product steel line pipe, HFW-HFI-longitudinally welded Works order No. 1000011116 Dispatch note No. 0080054607 Inspection WA 18.03.2011	Steel grade and terms of delivery EN 10208-2 (03/09) Inside conditions (B06) black	Outside conditions (B06) coating acc. to DIN 30670, LDPE, coating profile: standard, yellow, coating type: N, V, coating thickness: 2,70 mm, ends protected by anti-corrosive paint, suitable for welding ends (B06) bevelled 30 +5/-0°, root face 1,6 +/-0,8 mm, pipe end protection: with plastic caps	Marking of the product (B06) Inside marking inside at one end: Pipe-no. / Product no. single pipe length (mm) Die stamping outside at one end: Pipe-no. sign of works inspector manufactures sign EN10208-2 L245MB W
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Material data (B01-B99)									
Item	Heat No. (B07)	Quantity (B08)	Cond. of delivery (B04)	D x L x Length (B09-B11)	mm x mm x m	Length (B09-B11)	m	Weight (B12)	kgs
002	034742	4	U	168,3 x 5,60 x 12,000		48,038		1.160	
Σ		4	U: as rolled			48,038		1.160	

The mentioned length and weight refers to the product in delivery condition

We hereby certify that the delivered material complies with the terms of the order. (Z01)

 Trademark (A04)
 Salzgitter Mannesmann Line Pipe GmbH
 In der Steinwiese 31
 D-57074 Siegen
 (A01)

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 Vorsitzender des Aufsichtsrates: Wolfgang Eging · Geschäftsführung: Marc Rasquin (Vorsitzender) Ulrich Kill · Jörn Winkels
 Sitz der Gesellschaft: Siegen · Registergericht: Amtsgericht Siegen · Registernummer: HRB1435 · Bankverbindung: Commerzbank AG, Siegen, BLZ 460 400 33, Konto 836 084 400, IBAN DE 68 4604 0033 0836 0844 00, S.W.I.F.T.: COBA DE FF 460
 Steuer-Nr.: 51/200/00033 · Zoll-Nr.: 6411185

Inspection certificate 3.1
EN 10204:2004-10

No. (A07) MFR/14/10/MH Tranovice 08.12.2010
Purchaser PVK s.r.o.
Vrbenska 6
37031 CESKE BUDEJOVICE
TSCHECHISCHE REP

Product steel line pipe, HFW-HFI-longitudinally welded

Works order No. 1000011116 (A08)
Dispatch note No. 0080054607 (B02-B03)
18.03.2011
WA Inspection (A05)

No. (A03) 26980
Page 2/4
Date 21.03.2011

Steel grade and terms of delivery L245MB (1.0418)
EN 10208-2 (03/09)

Ladle analysis (C70-C99)

Heat No. (B07)	C	Si	Mn	P	S	Al	Cu	Cr	Ni	Mo
034742	≤0,16	≤0,45	≤1,50	≤0,025	≤0,020	0,015-0,060	≤0,25	≤0,30	≤0,30	≤0,10
Heat No. (B07)	V	Ti	Nb	N	Al/N	EV1 1)	EV2 2)			
034742	0,12	0,19	0,47	0,019	0,005	0,049	0,06	0,05	0,05	0,01
Heat No. (B07)										
034742	0,002	0,002	0,003	0,004	12	0,01	0,22			

1) EV1: V+Nb+Ti
2) EV2: CEV=C+Mn/6+Mo/5+Ni/15+C/5+V/5+Cu/15

Steelmaking process: Basic oxygen process (C70)

Check analysis (C70-C99)

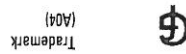
Specimen No. (C00)	Heat No. (B07)	C	Si	Mn	P	S	Al	Cu	Cr
1000612626 *	034742	≤0,18	≤0,50	≤1,60	≤0,030	≤0,025	0,015-0,0649	≤0,30	≤0,35
Specimen No. (C00)	Heat No. (B07)	Ni	Mo	V	Ti	Nb	N	EV1 1)	Al/N
1000612626 *	034742	0,12	0,19	0,47	0,019	0,006	0,051	0,06	0,05
Specimen No. (C00)	Heat No. (B07)								
1000612626 *	034742	0,05	0,01	0,01	0,003	0,002	0,004	0,02	13

2) EV2: CEV=C+Mn/6+Mo/5+Ni/15+C/5+V/5+Cu/15

*) The sample product is not part of the delivery

1) EV1: V+Nb+Ti

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Steuer-Nr.: 51/200/00033 · Zoll-Nr.: 6411185

Inspection certificate 3.1
EN 10204:2004-10

(A02) Page 3/4
Date 21.03.2011

(A07) No. MFR/14/10/MH Tranovice 08.12.2010
Purchaser PVK s.r.o.
Vrbenska 6
37031 CESKE BUDEJOVICE
TSCHSCHISCHS RE

(B01) Product steel line pipe, HFW-HFI-longitudinally welded

(A08) Works order No. 100001116
(A09) Dispatch note No. 0080054607
18.03.2011 WA
(A05) Inspection

(B02-B03) Steel grade and terms of delivery L245MB (1.0418)
EN 10208-2 (03/09)

Tensile test (C10-C29)
acc. EN

Specimen No.	Heat No.	Location	Direct	Cond.	Type	Yield strength	Tensile strength	Rt _{0.5} /Rm	Elongation	Width of specimen
(C00)	(B07)	(C01)	(C02)	(B05)	(4)	MPa Rt _{0.5} C11	MPa Rm C12	% A5 C13	mm	
1000612626 *	034742	L	L	U	L	388	463	0,84	33	20,1
(C00)	(B07)	(C01)	(C02)	(B05)	(4)	mm	Height of specimen			
1000612626 *	034742	L	L	U	L	5,55				

1) GW: Base material
2) L: longitudinal
3) U: as rolled
4) L: Lot testing
5) A5: Lo=5,65√So

* The sample product is not part of the delivery

Impact test (C40-C49)

Specimen No.	Heat No.	Location	Direct	Cond.	Type	Type of specimen	Temp.	Impact energy
(C00)	(B07)	(C01)	(C02)	(B05)	(4)	(C40-C41)	°C (C03)	J (C42-C43)
1000612626 *	034742	L	L	U	L	Charpy-V/10,0	+000	174 155 178
(C00)	(B07)	(C01)	(C02)	(B05)	(4)	5) 10.0: 1/1 size		6) MW: Average
1000612626 *	034742	L	L	U	L	Charpy-V/10,0	+000	174 155 178

1) GW: Base material
2) L: longitudinal
3) U: as rolled
4) L: Lot testing
5) 10.0: 1/1 size
6) MW: Average

* The sample product is not part of the delivery

We hereby certify that the delivered material complies with the terms of the order. (Z01)

Salzgitter Mannesmann Line Pipe GmbH
In der Steinwiese 31
D-57074 Siegen
(A04)
Trademark

Salzgitter Mannesmann Line Pipe GmbH
In der Steinwiese 31
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Steuer-Nr.: 51/200/00033 · Zoll-Nr.: 6411185

Inspection certificate 3.1
EN 10204:2004-10

(A02)

No. (A07) MFR/14/10/MH Tranovice 08.12.2010

Purchaser

PVK s.r.o.

Vrbenska 6

37031 CESKE BUDEJOVICE

TSCHSCHISCHE RE

Product steel line pipe, HFW-HFI-longitudinally welded

(B01)

Steel grade and terms of delivery L245MB (1.0418)
 EN 10208-2 (03/09)

(B02-B03)

Inspection

WA

(A05)

Dispatch note No.

0080054607

(A08)

Works order No.

1000011116

Date

21.03.2011

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No. (A03)

26980

Heat treatment: Weld zone inductive normalized

Flattening test:

Satisfactory

Hydrostatic test

142 bar , holding time 10 s :

Satisfactory

Ultrasonic testing of weld

acc. to EN 10246-8, test class U3:

Satisfactory

Testing in residual magnetism

max. 30 Gauss :

Satisfactory

Metallographic examination:

Satisfactory

Statement of compliance

The products have been tested in accordance with the purchase

specification and are found to be satisfactory.

Alteration of this testimonial and certification or use for other

products is not allowed and are regarded as falsification of documents

and will be subjected to criminal jurisdiction.

(Z01)

We hereby certify that the delivered material complies with the terms of the order.



Trademark
 (A04)

Salzgitter Mannesmann Line Pipe GmbH
 In der Steinwiese 31
 D-57074 Siegen
 (A01)



Inspection Stamp
 (Z03)

[Handwritten signature]

Inspection Representative
 (Z02)

Andreas Bludnoweit

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Test report
EN 10204:2004-10

(A02)

No.(A07) MFR/14/10/MH Tranovice 08.12.2010

Purchaser

PVK s.r.o.

Urbenska 6

37031 CESKE BUDEJOVICE

TSCHSCHISCHE RE

(B01)

Product steel line pipe, HFW-HFI-longitudinally welded

(A08)

Works order No. 100001116

Dispatch note No. 0080054607

18.03.2011

WA

(A05)

Inspection

Inside conditions (B06)
black

(B06)

Outside conditions (B06)

coating acc. to DIN 30670, LDPE, coating profile: standard, yellow, coating

type: N, V, coating thickness: 2,70 mm, ends protected by anti-corrosive paint,

suitable for welding

bevelled 30 +5/-0°, root face 1,6 +/-0,8 mm, pipe end protection: with plastic

caps

(B06)

Marking of the product (B06)

Longitudinal marking outside on the coating over the whole pipe length:

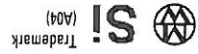
* SALZGITTER MANNESMANN LINE PIPE * MAPEC-coating * MW-SI * 168,300 mm x 5,600 mm * EN10208-2 * L245MB * W * DIN 30670 * N, V * LDPE *

Code *

Item	Heat No.	Quantity	Cond. of delivery	D x L length	mm x mm x m	Length	m	Weight	(B12)	kgs
002	034742	4	U	168,3 x 5,60 x 12,000		48,038		1.160		
The mentioned length and weight refers to the product in delivery condition										
Pipe list (B01-B99)										
Item	Inspection no.	Pipe-no.	Product No.	Heat No.	Cond. of delivery	Length	m	Weight	(B12)	kgs
002	0	1000612616	35610108	034742	U	12,010		290		
002	0	1000612617	35610109	034742	U	12,009		290		
002	0	1000612618	35610110	034742	U	12,010		290		
002	0	1000612619	35610111	034742	U	12,009		290		
Quantity 4 U: as rolled 48,038 1.160										

We hereby certify that the delivered material complies with the terms of the order.

(Z01)



Salzgitter Mannesmann Line Pipe GmbH
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(A04)
(A01)

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Steuer-Nr.: 51/200/00033 · Zoll-Nr.: 6411185

Test report		EN 10204:2004-10	
No. (A07)		MFR/14/10/MH Tranovice 08.12.2010	
Purchaser		PVK s.r.o., Vrbenska 6 37031 CESKE BUDEJOVICE TSCHSCHISCHE RE	
Product		steel line pipe, HEW-HFI-longitudinally welded	
Steel grade and terms of delivery		DIN 30670	
No. (A03)		26981	
Page		2/2	
Date		21.03.2011	
Works order No. (A08)		100001116	
Dispatch note No.		0080054607	
Inspection		WA	
Date		18.03.2011	

Coating thickness 2,70 mm min.: fulfilled

Coating holiday tested with 25 kV: Satisfactory

Statement of compliance
 The products have been tested in accordance with the purchase specification and are found to be satisfactory.

Alteration of this testimonial and certification or use for other products is not allowed and are regarded as falsification of documents and will be subjected to criminal jurisdiction.

We hereby certify that the delivered material complies with the terms of the order. (Z01)

 **SI** (A04) Trademark

Salzgitter Mannesmann Line Pipe GmbH
 In der Steinwiese 31
 D-57074 Siegen (A01)

GF (Z03) Inspection Stamp


 Andreas Bludauweit (Z02) Inspection Representative

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