

C E R T I F I C A T E

Päiväys: 17.5.2017

Meidän tilausnumero: 0420465
Asiakkaan tilausnumero: R.Wessman 001879

TAMMINIITTY OY
ATT: AINE
RAKENTAJANTIE 1
FI-27510 EURA

Rivi	Tuote	Kuvaus	Viite	Sulatusnumero
1	2100922510	S690QL 16X2450X6000 MM (CE)		762351 2

Pyydetyt todistukset yllä oleville tilauksille lähetetään teille.

BE Group Oy Ab
PL 54 Helsingintie 50
FI-15101 LAHTI

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Faksinumero: +358 3 8252503

certificates@begroup.fi

Inspection certificate 3.1		No. (A03)	1048100
DIN EN 10204		Page	1/3
(A02)		Date	12.04.2017
No. (A07)	P048978	03.01.2017	No. (A07)
Purchaser (A06)	BE Group Oy Ab 15101 LAHTI FINNLAND	Customer (A06)	BE Group Oy Ab 15101 LAHTI FINNLAND
Product (B01)	Heavy plate	Works order No. (A08)	0000087902
Steel grade and terms of delivery (B02-B03)	S690QL DIN EN 10025-6 08/09 DIN EN 10029 A 02/11 DIN EN 10163-2 Kl. B UG3 03/05 2100922510	Dispatch note No.	0086856412 12.04.2017
		Inspection (A05)	WS

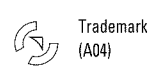
Marking of the product (B06)
 Trademark/Steelgrade/Heat-No/Product-No/
 inspector's stamp

Material data (B01-B99)					
Item	Quantity (B08)	Product No. (B07)	Heat No. (B07)	Cond. of delivery (B04)	Thickness x Width x Length (B09-B11) mm x mm x mm
02	1	762351 2	31773	VG	16,00 x 2450,0 x 6000
Σ	1	Weight (B12)	1.846 kgs	VG: quenched and tempered	
Dimensional check and visual examination of the surface condition: without objection					

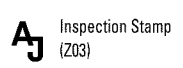
Ladle analysis (C70-C99)										
Manufacturer standard										
Heat No. (B07)	C %	Si %	Mn %	P %	S %	N %	Al %	Cu %	Cr %	Ni %
	≤0,20	≤0,80	≤1,70	≤0,020	≤0,010	≤0,015		≤0,50	≤1,50	≤2,00
31773	0,17	0,26	1,21	0,010	0,001	0,006	0,080	0,02	0,35	0,04
Heat No. (B07)	Nb %	Mo %	V %	Ti %	B %	Zr %	EV1 1) %			
	≤0,06	≤0,70	≤0,12	≤0,05	≤0,0050	≤0,15	≤0,65			
31773	0,03	0,21	0,004	0,004	0,0036	0,001	0,49			
1) EV1: CEV=C+Mn/6+Mo/5+Ni/15+Cr/5+V/5+Cu/15										
Steel making: Basic oxygen process (C70)										

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

QIM-System: Certification as per ISO 9001 since 28 February 1990



Isenburger Grobblech GmbH
 Veckenstedter Weg 10
 D-38871 Isenburg
 (A01)



Inspection Representative
(Z02)

Cyron

Inspection certificate 3.1		No. (A03)	1048100
DIN EN 10204		Page	2/3
(A02)		Date	12.04.2017
No. (A07)	P048978	03.01.2017	No. (A07)
Purchaser (A06)	BE Group Oy Ab 15101 LAHTI FINNLAND	Customer (A06)	BE Group Oy Ab 15101 LAHTI FINNLAND
Product (B01)	Heavy plate	Works order No. (A08)	0000087902
Steel grade and terms of delivery (B02-B03)	S690QL DIN EN 10025-6 08/09 DIN EN 10029 A 02/11 DIN EN 10163-2 Kl. B UG3 03/05 2100922510	Dispatch note No.	0086856412 12.04.2017
		Inspection (A05)	WS

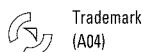
Tensile test (C10-C29)										
Specimen No. (C00)	Heat No. (B07)	Location (C01)	Direct. (C02)	Cond. (B05)	Type (C10)	Yield point (C11) ReH N/mm ² ≥ 690	Tensile strength (C12) Rm N/mm ² 770 - 940	ReH/Rm	Elongation (C13) A5 7) % ≥ 14	
762351	31773	K4G	Q	VG	P	790	833	0,95	17	
1) K: Top 2) 4: 1/4 Width 3) G: Thickness of product 4) Q: transversal					5) VG: quenched and tempered 6) P: prismatic 7) A5: Lo=5,65 √So					

Impact test (C40-C49)											
Specimen No. (C00)	Heat No. (B07)	Location (C01)	Direct. (C02)	Cond. (B05)	Type of specimen (C40-C41)	Temperature (C03) °C	Impact energy (C42-C43)				
		1)2)3)	4)	5)			1	2	3	MW 6)	
							J ≥ 19			J ≥ 27	
762351	31773	K40	Q	VG	KV450	-040	68	78	83	76	
1) K: Top 2) 4: 1/4 Width 3) 0: near surface					4) Q: transversal 5) VG: quenched and tempered 6) MW: Average						

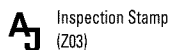
Our products are free of radioactive substances and do not exceed the clearing limit value of 100 Bq/kg, which guarantees the compliance with limit values given in the Radiation Protection Ordinance (StrlSchV) for the unrestricted clearance of solid material (StrlSchV Annex III, Section 5) for ferrous nuclides.

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

QM-System: Certification as per ISO 9001 since 28 February 1990



Ilsenburger Grobblech GmbH
Veckenstedter Weg 10
D-38871 Ilsenburg
(A01)

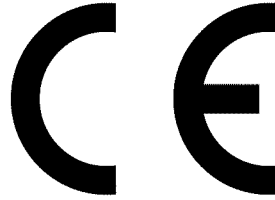


Inspection Representative
(Z02)

Cyron

Inspection certificate 3.1
DIN EN 10204
(A02)

No. (A03) **1048100**
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Date 12.04.2017



0045

Ilsenburger Grobblech GmbH
Veckenstedter Weg 10
D-38871 Ilsenburg

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0045-CPR-0673
DoP: ILGS690QL-CPR-10025-01072013

EN 10025-1 2004

Warmgewalzte Baustahlprodukte
Hot rolled structural steel products
Produits en acier de construction laminé à chaud

Vorgesehene Verwendungen:	Hochbauten und Ingenieurbauwerke
Intended uses:	Building constructions or civil engineering
Usages prévus:	Construction de bâtiments ou génie civil

Grenzabmaße und Formtoleranzen:	Warmgewalztes Grobblech
Tolerances on dimensions and shape:	Hot rolled heavy plates
Tolérances sur les dimensions et la forme:	Tôles fortes
	refendues laminées à chaud: EN 10029

Dehnung / Elongation / Élongation:	S690QL DIN EN 10025-6 08/09
Zugfestigkeit / Tensile strength /	
Résistance à la traction:	
Streckgrenze / Yield strenght / Limite d'élasticité:	
Kerbschlagarbeit / Impact strenght /	
Résistance au choc:	
Schweißbeignung / Weldability / Soudabilité:	

Dauerhaftigkeit:	Keine Leistung festgestellt
Durability:	No performance determined
Durabilité:	Aucune performance déterminée

Regulierter Stoff:	Keine Leistung festgestellt
Regulated substance:	No performance determined
Substance Réglementée:	Aucune performance déterminée

Die Leistungserklärung (DoP) gemäß EU-Verordnung 305/2011, Anhang III kann unter www.ilsenburger-grobbblech.de/de/produkte/qualitaetsphilosophie-ims/zertifikate abgerufen werden.

The Declaration of Performance (DoP) in acc. with EU-Regulation 305/2011, Annex III is available under www.ilsenburger-grobbblech.de/en/produkte/qualitaetsphilosophie-ims/zertifikate