

QM-System: Certification as per ISO 9001

Erläuterungen siehe Rückseite/Explications voir au verso/See reverse for explanations (www.dillinger.de/certificate)

A02 INSPECTION CERTIFICATE 3.1 AS PER EN 10204:2004 INSPECTION CERTIFICATE 3.1 AS PER ISO 10474:2013 MATERIAL TEST REPORT (MTR)	A10 Advice of dispatch No./ Date of dispatch 623440-15.01.18	A08/ Manufacturer's order/ A03 Certificate No. 430762-003 B01 Product HEAVY PLATES
A05 Established inspecting body DH A06 Purchaser BE GROUP OY AB, LAHTI A07.1 No. P056994 Final receiver BE GROUP OY AB, TURKU A07.2 No.		
B02/ Steel design. S690QL+DILLIMAX690T		
B03 Any suppl. requirements EN-10025-6:09/DILLING-E04:16		

B01-B99 Description of the product

B14 Item No.	B08 Number of pieces	B09 Thickness	B10 Width	B11 Length	B12 Theoretical mass	B04 Product delivery condition	B07.2 Heat No.	B07.1 Rolled plate No./ Test No.	A09 Purchaser article number
03	1	15,00	x 2450	x 6000	1764	Q+A	453974	91592-03	2100922300
04	1	16,00	x 2450	x 6000	1882	Q+A	453974	91606-04	2100922510
***	2				3646				

B06 Marking of the product

ITEM NO. : 03-04
STEEL DESIGNATION S690QL DILLIMAX690T
HEAT NO. / TRADEMARK / ROLLED PLATE NO. - TEST NO. / INSPECTOR'S STAMP

C10-C29 Tensile test


B14 Item No.	B07.2 Heat No.	B05 Reference (heat) treatment	C01 C02/ C03 C01 Temp. GR.C	C10 C11 MPA REH	C12 RM	C13	C14-C15
03	453974	91592	K4 Q RT	804	834		

C40-C49 Impact test

B14 Item No.	B07.2 Heat No.	B05 Reference (heat) treatment	C01 C02/ C03 C01 Temp. GR.C	C41 Width of test piece	C40 Type of test piece	C46 Energy Joule	C45 Individual values AV=J	C43 Mean value
03	453974	91592	K4 Q0	-40	CHP-V	750	AV 2 89 99 96	95

C70-C99 Chemical composition % - Heat analysis

B07.2 Heat No.	C70	C	SI	MN	P	S	N	CU	MO	NI	CR	VB	NB	TI	B
453974	Y	0,138	0,311	1,446	0,013	0,0007	0,0043	0,017	0,058	0,056	0,313	0,002	0,025	0,012	0,0026

A04	 Manufacturer's mark	Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.
 B. BALDAUF Test House Manager		 AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department
		Inspector's stamp Date 16.01.18 RD 1

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<p>A05 Established Inspecting body DH</p> <p>A06 Purchaser BE GROUP OY AB, LAHTI A07.1 No. P056994</p> <p>Final receiver BE GROUP OY AB, TURKU A07.2 No.</p>		
<p>B02/ Steel design. S690QL+DILLIMAX690T</p> <p>B03 Any suppl. EN-10025-6:09/DILLING-E04:16 requirements</p>		

C70-C99 Chemical composition % - Heat analysis

B07.2 Heat	C70	ZR	AL-T	
453974	Y	0,0002	0,040	

C94 Heat analysis Carbon equivalent / Alloying restrictions

B07.2 Heat	FO-02=	0,46	FO-51=	0,03	FO-C4=	0,31
453974						

C94 Carbon equivalent formula / Alloying restrictions




FO-02 = $C + (Mn/6) + (Cr+Mo+V)/5 + (Ni+Cu)/15$
 FO-51 = $V + Nb$
 FO-C4 = $C + (Mn+Mo)/10 + (Cr+Cu)/20 + Ni/40$

D01 Marking and identification, surface appearance, shape and dimensional properties

ITEM NO. : 03-04
 EXAMINATION OF MARKING, SURFACE, SHAPE AND DIMENSIONS: THE RESULTS MEET THE REQUIREMENTS.
 SURFACE AS PER EN-10163-B3
 THICKNESS AS PER EN-10029:10-A
 LENGTH AND WIDTH AS PER EN-10029:10
 FLATNESS AS PER EN-10029:10-T5H

D02 Non-destructive tests - Ultrasonic testing

ITEM NO. : 03-04
 UT-SPECIFICATION : EN-10160 CLASS S1 AND E1
 SCANNING PLAN BODY : LONGITUDINALLY SCAN LINES SPACING 100 MM
 EDGES : 100 MM
 PERSONNEL QUALIFICATION : LEVEL 2 IN ACCORDANCE TO ISO 9712
 THE TEST RESULTS MEET THE REQUIREMENTS OF THE ORDER.

<p>A04</p> <div style="text-align: center;">  <p>Manufacturer's mark</p> </div>	<p>Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.</p>	<div style="text-align: center;">  <p>B. BALDAUF Test House Manager</p> </div>	<div style="text-align: center;">  <p>AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department</p> </div>	<p>Inspector's stamp Date 16.01.18 RD 1</p>
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			623440-15.01.18		430762-003
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		Final receiver	BE GROUP OY AB, TURKU	A07.2	No.
B02/	Steel design.	S690QL+DILLIMAX690T			
B03	Any suppl. requirements	EN-10025-6:09/DILLING-E04:16			

Z04 Environmental product declaration for structural steel

ITEM NO. : 03-04

For structural steel plates from Dillinger Hütte a validated environmental product declaration according to ISO 14025 and EN 15804 was established: BFS-20130094-IBGL-EN+RC1. Further information can be found under www.dillinger.de/EPD-E/.

A04	 Manufacturer's mark	 B. BALDAUF Test House Manager	Inspector's stamp 
Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.		AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department	
		Date	16.01.18
		RD	1

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<p>B02/ Steel design. S690QL+DILLIMAX690T B03 Any suppl. EN-10025-6:09/DILLING-E04:16 requirements</p>			

Z04 CE-marking

ITEM NO.: 03-04

<p style="font-size: 48px; text-align: center;">CE</p> <p style="text-align: right; font-weight: bold;">0769</p>	<p style="text-align: center;">EN 10025-1:2004</p> <p style="text-align: center;">Plate S690QL / 1.8928</p> <p style="text-align: center;">to be used in welded, bolted and riveted structures</p>
<p style="text-align: center;">DILLINGER</p> <p style="text-align: center;">AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar</p> <p style="text-align: center;">18</p> <p style="text-align: center;">S690QL_EN10025-6-09_A_130701E1</p>	<p style="text-align: center;">Tolerances on dimensions and shape</p> <p style="text-align: center;">Elongation</p> <p style="text-align: center;">Tensile strength</p> <p style="text-align: center;">Yield strength</p> <p style="text-align: center;">Impact strength</p> <p style="text-align: center;">Weldability</p> <p style="text-align: center;">Durability (chemical composition)</p> <p style="text-align: center;">expressed as declared in the DoP</p> <p style="text-align: center;">S690QL_EN10025-6-09_A_130701E1</p>

The declaration of performance can be downloaded from www.dillinger.de/dop/S690QL_EN10025-6-09_A_130701E1.pdf

A04



Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.

A01

AG der Dillinger Hüttenwerke
Postfach 1580, D-66748 Dillingen/Saar
Inspection department

B. Baldauf



B. BALDAUF
Test House Manager

Inspector's stamp Date 16.01.18

RD 1