

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	A10	Advice of dispatch No./ Date of dispatch	A08/ Manufacturer's order/ A03 Certificate No.	Sheet
	INSPECTION CERTIFICATE 3.1 AS PER ISO 10474:2013		743280-28.06.21	467812-002	1/....
	MATERIAL TEST REPORT (MTR)				

A05	Established inspecting body DH	A06 Purchaser	BE GROUP OY AB, LAHTI	A07.1 No.	P089040
		Final receiver	BE GROUP OY AB, LAPUA	A07.2 No.	

B02/	Steel design.	<b>DILLIMAX690T/S690QL</b>			
B03	Any suppl. requirements	DILLING-04:20/EN-10025-6:19			

**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 Rol.plate Test No.	A09 Purchaser article number
01	1	50,00	x 2450	x 6000	5880	Q+A	489464	36463-02	2100923645
01	1	50,00	x 2450	x 6000	5880	Q+A	492750	11794-01	2100923645
**	2				11760				
04	1	100,00	x 2250	x 3300	5940	Q+A	488174	63655-01	2190924010
***	3				17700				

**B06 Marking of the product**

**ITEM NO. : 01, 04**  
 STEEL DESIGNATION **DILLIMAX690T S690QL**  
 HEAT NO. / TRADEMARK / ROLLED PLATE NO.-TEST NO. / INSPECTOR'S STAMP

**C10-C29 Tensile test**

B14 Item No.	B07.2 Heat No.	B07.1 Rol.plate Test No.	B05 Rol.plate No./ Reference (heat) treatment	C01 C02/ C01 Temp. GR.C	C03 C01 Temp. GR.C	C10 C11 MPA REH	C12 RM	C13	A % L0=5D	C14-C15
01	489464	36463	K4 Q	RT	752	812	18			
01	492750	11794	K4 Q	RT	755	809	16			
04	488174	63655	K4 Q	RT	735	798	16			

**C40-C49 Impact test**

B14 Item No.	B07.2 Heat No.	B07.1 Rol.plate Test No.	B05 Rol.plate No./ Reference (heat) treatment	C01 C02/ C01 Temp. GR.C	C03 C01 Temp. GR.C	C40 Type of test piece	C44 Testing method	C46 Energy Joule	C45 AV	C42 Individual values AV=J	C43 Mean value
01	489464	36463	K4 LV	-40	-40	CHP-V	750	177	174	177	181
01	492750	11794	K4 LV	-40	-40	CHP-V	750	229	225	229	228
04	488174	63655	K4 LV	-40	-40	CHP-V	750	192	182	192	188

A04	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	Date 28.06.21 Inspector's stamp MM 1
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**QM-System: Certification as per ISO 9001**



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A05	Established inspecting body DH	A06 Purchaser	BE GROUP OY AB, LAHTI	A07.1 No.	P089040
		Final receiver	BE GROUP OY AB, LAPUA	A07.2 No.	

B02/	Steel design.	<b>DILLIMAX690T/S690QL</b>
B03	Any suppl. requirements	DILLING-04:20/EN-10025-6:19

**C70-C99 Chemical composition % - Heat analysis**

C70		C	SI	MN	P	S	N	CU	MO	NI	CR	V	NB	TI	B		
B07.2	Heat	488174	Y	0,165	0,318	1,319	0,012	0,0006	0,0041	0,020	0,266	0,208	0,673	0,002	0,024	0,0004	0,0009
		489464	Y	0,171	0,321	1,301	0,013	0,0008	0,0045	0,031	0,215	0,114	0,311	0,002	0,024	0,004	0,0017
		492750	Y	0,165	0,299	1,312	0,010	0,0010	0,0048	0,028	0,196	0,105	0,277	0,001	0,023	0,004	0,0016

C70		ZR	AL-T		
B07.2	Heat	488174	Y	0,0002	0,074
		489464	Y	0,0002	0,067
		492750	Y	0,0002	0,081

**C94 Heat analysis Carbon equivalent / Alloying restrictions**

B07.2	Heat	488174	FO-02=	0,59	FO-51=	0,03	FO-A1=	18	FO-C4=	0,36
		489464	FO-02=	0,50	FO-51=	0,03	FO-A1=	15	FO-C4=	0,34
		492750	FO-02=	0,49	FO-51=	0,02	FO-A1=	17	FO-C4=	0,33

**C94 Carbon equivalent formula / Alloying restrictions**

FO-02	=	C + (MN/6) + (CR+MO+V) / 5 + (NI+CU) / 15
FO-51	=	V +NB
FO-A1	=	AT/N
FO-C4	=	C + (MN+MO) / 10 + (CR+CU) / 20 + NI / 40

A04		Z01/Z02/Z03	We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.		Inspector's stamp	Date	28.06.21	MM	1
	Manufacturer's mark			B. BALDAUF Test House Manager					
					AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar Inspection department				

**QM-System: Certification as per ISO 9001**

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		Final receiver BE GROUP OY AB, LAPUA		B01 Product HEAVY PLATES	

B02/ Steel design.	<b>DILLIMAX690T/S690QL</b>
B03 Any suppl. requirements	DILLING-04:20/EN-10025-6:19

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

**ITEM NO.: 01,04**

EXAMINATION OF MARKING, SURFACE, SHAPE AND DIMENSIONS: THE RESULTS MEET THE REQUIREMENTS.

SURFACE AS PER EN-10163-2 CLASS B SUBCLASS 3  
 THICKNESS AS PER EN-10029:10-A  
 LENGTH AND WIDTH AS PER EN-10029:10  
 FLATNESS AS PER EN-10029:10-T4H

**D02 Non-destructive tests - Ultrasonic testing**

**ITEM NO.: 01,04**




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.

**Z04 Environmental product declaration for structural steel**

**ITEM NO.: 01,04**

For structural steel plates from Dillinger a validated environmental product declaration according to ISO 14025 and EN 15804 was established: EPD-BFS-20180116-IBG2-EN. Further information can be found under [www.dillinger.de/EPD-E/](http://www.dillinger.de/EPD-E/).

A04		 B. BALDAUF Test House Manager			 Inspection department	AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar	Date 28.06.21 MM 1
Z01/Z02/Z03 We hereby certify, that the above mentioned materials have been delivered in accordance with the terms of order.							

**QM-System: Certification as per ISO 9001**

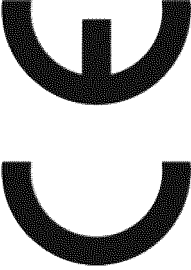


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B02/ B03	Steel design. Any suppl. requirements	DILLIMAX690T/S690QL DILLING-04:20/EN-10025-6:19				

**Z04 CE-marking**

ITEM NO.: 01,04

 <p>0769</p>	<p>EN 10025-1:2004</p> <p>Plate S690QL / 1.8928</p> <p>to be used in welded, bolted and riveted structures</p>
<p><b>DILLINGER</b></p> <p>AG der Dillinger Hüttenwerke Postfach 1580, D-66748 Dillingen/Saar</p> <p>21</p> <p>S690QL_EN10025-6-19_A_200201E1</p>	<p>Tolerance on dimensions and shape:</p> <p>Elongation</p> <p>Tensile strength</p> <p>Yield strength</p> <p>Impact strength</p> <p>Weldability</p> <p>Durability (chemical composition)</p> <p>expressed as declared in the DoP</p> <p>S690QL_EN10025-6-19_A_200201E1</p>

The declaration of performance can be downloaded from www.dillinger.de/dop/S690QL\_EN10025-6-19\_A\_200201E1.pdf

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

A04



Manufacturer's mark

*B. Baldauf*

B. BALDAUF  
Test House Manager



Inspector's stamp

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

Date 28.06.21

MM

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A01