359 786

Inspection Certificate

STAHL GERLAFINGEN
AFV BELTRAME GROUP
Stahl Gerlafingen AG
Postfach
CH-4563 Gerlafingen
CHE-105.859.757 MWST
www.stahl-gerlafingen.com - info@stahl-gerlafingen.com

CE
0780
17
0780-CPD-52003

Consignee:

Kromat Trading Ltd.
9, Palace Court
GB-W2 4LP LONDON

Inspection document no.: 80470402.01
Inspection certificate: EN 10204 ~~3.1~~
Steel grade: S235JR/S275JR+AR
Material no.: 1.0038/1.0044 ~~1.0044~~

Confirmation of order: 165136
Purchase order: dated 28.06.2017
Delivery note: 80470402
Goods movement date: 26.08.2017

It.	Cast	Article-No.	Description	C %	Si %	Mn %	P %	S %	Cr %	Mo %	Ni %	Cu %	V %	Nb %	Ti %	Al %	Ca %	N ppm	CEV %
1	GE 257650	172670	WIDE FLAT 220x15 S235/275JR 6.1m	0.10	0.15	0.59	0.013	0.030	0.12	0.01	0.10	0.32	0.003	0.003	0.001	0.008		46	0.256
2	GE 257648	172670	WIDE FLAT 220x15 S235/275JR 6.1m	0.11	0.17	0.57	0.014	0.029	0.12	0.01	0.10	0.29	0.001	0.001	0.001	0.003		70	0.254
3	GE 257649	172670	WIDE FLAT 220x15 S235/275JR 6.1m	0.10	0.17	0.56	0.016	0.032	0.15	0.01	0.12	0.41	0.001	0.001	0.001	0.003		82	0.265
4	GE 257384	172671	WIDE FLAT 220x20 S235/275JR 6.1m	0.10	0.16	0.55	0.018	0.022	0.15	0.01	0.14	0.42	0.001	0.001	0.001	0.004		84	0.259
5	GE 257358	172671	WIDE FLAT 220x20 S235/275JR 6.1m	0.14	0.14	0.53	0.032	0.032	0.21	0.01	0.15	0.47	0.001	0.001	0.001	0.001		104	0.309

It.	Cast	Origin	CE			Bundles / Coils	Weight t	Section mm2	Section %	Tensile test ReH/MP	Tensile test Rm/MPa	Tensile test Rm/Re	Tensile test Agt %	Tensile test As,65 %	Ribs fR	Impact test Positio	Impact test K1 J	Impact test K2 J	Impact test K3 J	Impact test Aver. J	Impact test T°c
1	GE 257650	Gerlafingen	780			3				293	424			32.6							
2	GE 257648	Gerlafingen	780			1				289	433			32.9							
3	GE 257649	Gerlafingen	780			5				292	421			38.4							
4	GE 257384	Gerlafingen	780			9				294	428			32.0							
5	GE 257358	Gerlafingen	780			4				302	446			29.6							

Inspector | Factory Gerlafingen | Date 26.08.2017 | Quality Assurance Dept. H.-J. Opatz

Despatch No.: 205807 Date: 19/09/18 S/O No.: 212035
Cust Name: WELDRITE STRUCTURES LTD Cust Ref: WSL10055 Parent: 359786
Mill Ref....: S275JR Cast No.....: 257358 Weight: 0.214 Pieces: 1 Size: 6.200
Product: FLAT220*20 Child Batch No: 359786

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Declaration of performance

CE
0780
17
0780-CPD-52003

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9, Palace Court
GB-W2 4LP LONDON

Inspection document no.: 80470402.01
Delivery note: 80470402

1	Identification product code	Steel grade / material no.
		Certificate, delivery note and label
2	Identification of the product	Hot-rolled structural steel products for metal building structures or in composite concrete composite structures according to EN 10025-1:2004
3	Intended use	Stahl Gerlafingen AG Postfach CH-4563 Gerlafingen CHE-105.859.757 MWST www.stahl-gerlafingen.com - info@stahl-gerlafingen.com
4	Manufacturer	System 2+
5	System to evaluate the performance according to regulation (EU) no 305/2011	TÜV Rheinland Bautechnik GmbH (0780) Tillystrasse 2 D-90431 Nürnberg
6	Notified body	The notified body has performed the initial inspection of factory and factory production control and the continuous surveillance, assessment and approval of factory production control and has issued the certificate 0780-CPD-52003.
7	Tasks of the notified body	

8 Declared performance

Thickness [mm]	S235 JR/J0/J2	S275 JR/J0/J2	S235/S275 JR/J0/J2	S355 JR/J0/J2
Yield strength ReH [MPa] <= 16	>= 235	>= 275	>= 275	>= 355
Yield strength ReH [MPa] > 16 / <= 40	>= 225	>= 265	>= 265	>= 345
Tensile strength Rm [MPa] >= 3 / <= 100	>= 360 / <= 510	>= 410 / <= 560	>= 410 / <= 510	>= 470 / <= 630
Elongation A5,65[%] >= 3 / <= 40	>= 26	>= 23	>= 26	>= 22
Impact strength [J] <= 150	>= 27	>= 27	>= 27	>= 27
	Temperature: JR at 20°C / J0 at 0°C / J2 at -20°C			
Weldability CEV [%] <= 30	<= 0.35	<= 0.40	<= 0.35	<= 0.45
Weldability CEV [%] > 30 / <= 40	<= 0.35	<= 0.40	<= 0.35	<= 0.47
Suitable for zinc coating	Classes 2 and 3			
Durability	No performance determined			
Non-radioactivity is controlled.				
Regulated material: No performance determined.				
Electric arc furnace (>95% recycling content). Environmental product declaration ICQM - 14011EPD.				

EN 10025-2: 2004

Tolerances on dimensions and shape

Flat bars in accordance with EN 10058, wide flat bars in accordance with DIN 59200 and angles in accordance with EN 10056-1 and tolerances in accordance with EN 10056-2

European wide flange beams HEB/IPB and HEA/IPBl in accordance with DIN 1025-2 and -3 and tolerances in accordance with EN 10034

European beams IPE in accordance with DIN 1025-5 and tolerances in accordance with EN 10034

European taper flange channels UPN in accordance with DIN 1026-1 and tolerances in accordance with EN 10279

The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of Stahl Gerlafingen AG by: Gerlafingen, 26.08.2017

Daniel Aebli
General Manager Beltrame Group

Dr. Christoph Zeltner
Head of Quality and Environment