

Steel Bar Circular

Issue No. : 3/2024

Date : 02 July 2024

I enclose the following for your information:

- (i) List of Bar Pattern Codes for Quality Assured Manufacturers to CS2:2012 Grade 500B / BS4449:2005 Grade B500B (July 2024)
- (ii) List of Bar Pattern Codes for Quality Assured Manufacturers to CS2:2012 Grade 500C / BS4449:2005 Grade B500C (July 2024)
- (iii) List of Bar Pattern Codes for Quality Assured Manufacturers to CS2:1995 (July 2024)
- (iv) List of Quality Assured Stockists to CS2:2012 (July 2024)
- (v) List of Quality Assured Stockists to CS2:1995 (July 2024)
- (vi) List of Revision to Drawings on Bar Pattern of Confirmed Origin Manufactured to CS2 / BS4449:2005 (July 2024)
- (vii) List of Drawings on Bar Pattern of Confirmed Origin Manufactured to CS2 / BS4449:2005 (July 2024)
- (viii) A complete set of drawings on bar pattern of confirmed origin.

2. Please note the following:

- (i) Lists of bar pattern codes for manufacturers and stockists to CS2:2012 / BS4449:2005 are added to respond to its publication.
- (ii) Stockists on CS2:2012 list will automatically comply with the requirements of CS2:1995 but not vice versa.

3. The above lists were compiled based on the information available and will be uploaded to our web-site of <https://www.cedd.gov.hk/eng/public-services-forms/geotechnical/laboratory-testing/public-works-laboratories/index.html>.

4. If any updating or amendments to QA status for stocklists and manufacturers are required, please contact PTO/Lab2, Mr. H.L. LI, at telephone number 2305 1275, or in writing to the Public Works Central Laboratory Building, 2B Cheung Yip Street, Kowloon Bay, Kowloon, Hong Kong.


(Terry K F LUK)

for Chief Geotechnical Engineer/Materials & Testing
Geotechnical Engineering Office
Civil Engineering and Development Department

Encl.

**List of Bar Pattern Codes for Quality Assured Manufacturers to
CS2 : 2012 (July 2024)**

Origin	Bar Pattern Code	Manufacturer Name	CS2:2012 Grade 500B	CS2:2012 Grade 500B (Coil)	BS4449:2005 Grade B500B (Coil / Decoiled Bar)	Q.A. Cert. Expiry Date
Algeria	ALA1	Tosyali Algerie Fer Et Acier	#			11.12.2021
China	CHA82	Shenzhen Welmetal Steel Co., Ltd.	#			08.06.2017
	CHA85, CHA103	Tianjin Tiantie Zhaer Steel Production Co. Ltd.	#			17.11.2016
	CHA86	Jiangsu Yonggang Group Co., Ltd.	#	#	#	19.05.2025
	CHA87	Tianjin Iron & Steel Group Co., Ltd.	#			15.09.2018
	CHA88	Rizhao Steel Wire Co., Ltd	#			15.09.2018
	CHA93	Gaoming Jianming Steel Rolling Fty. Ltd. of Foshan	#			22.06.2018
	CHA96	Guangzhou Panyu Yufeng Iron & Steel Co., Ltd.	#			07.07.2025
	CHA97	Hebei Taigang Iron and Steel Rolling Co., Ltd	#			30.06.2016
	CHA98	Jiangsu Prosperity Steel Co., Ltd.	#			06.01.2015
	CHA101	Wuhu Xinxing Ductile Iron Pipes Co., Ltd.	#			25.07.2017
	CHA102	Tianjin Metallurgy Group Zha San Metal Material Science & Technology Co., Ltd.	#			15.09.2018
	CHA104	Zhuhai Yueyufeng Iron & Steel Co., Ltd.	#			07.07.2022
	CHA105, CHA116	Jiangyin Xicheng Steel Co., Ltd.	#			26.09.2023
	CHA106	Jiangsu Shagang Group Co., Ltd.	#			07.05.2022
	CHA108	Guangxi Guigang Iron and Steel Group Co., Ltd.	#			15.09.2024
	CHA109, CHA140	Zenith Steel Group Co., Ltd.	#			14.06.2024
	CHA112	Benxi Beiyang Iron & Steel (Group) Co., Ltd.	#			19.05.2023
	CHA114, CHA151	Hebei Jinxi Iron and Steel Group Co., Ltd.	#			12.08.2022
	CHA115	Shandong Iron and Steel Company Ltd. Laiwu Company	#			27.01.2024
	CHA117	SGIS Songshan Co., Ltd.	#			08.05.2024
	CHA163	Guangdong Zhongnan Iron & steel Co., Ltd.	#	#		08.05.2027
	CHA118, CHA155, CHA156	Shandong Laigang Yongfeng Steel Corp.	#			05.09.2024
	CHA149	Shandong Laigang Yongfeng Steel Corp.		#	#	05.09.2021
	CHA122	Jiangsu Xinlin Iron & Steel Co. Ltd.	#			27.10.2017
	CHA124	Lingyuan Iron & Steel Co., Ltd.	#			15.09.2018
	CHA125	Shiheng Special Steel Group Co., Ltd. (Note 4)	#			27.12.2023
	CHA126, CHA147	Fushun New Steel Corporation Ltd.	#			30.10.2025
	CHA127	Jiangyin City Changda Steel Co., Ltd.	#			06.12.2025
	CHA128	Jiangsu Shagang Group Co., Ltd.	#		#	07.05.2022
	CHA129	Jiangsu Yang Steel Special Steel Co., Ltd.	#			16.07.2016
	CHA131	Anhui Changjiang Steel Co., Ltd.	#			23.09.2018
	CHA134	Shandong Iron & Steel Co., Ltd. Jinan Company	#			23.09.2018
CHA136	Angang Steel Company Ltd.	#			02.07.2018	
CHA138	Xinxing Ductile Iron Pipes Co., Ltd.	#			31.07.2018	
CHA141	Northern Guangdong United Steel and Iron Co., Ltd.	#			29.01.2019	
CHA143, CHA148	Xuanhua Iron & Steel Group Co., Ltd.	#			30.06.2018	
CHA144	Longnan Fuxin Iron & Steel Co., Ltd.	#			14.09.2018	
CHA146	Guangzhou Iron and Steel Holdings Ltd.	#			28.09.2019	

**List of Bar Pattern Codes for Quality Assured Manufacturers to
CS2 : 2012 (July 2024)**

Page 2 of 3

Origin	Bar Pattern Code	Manufacturer Name	CS2:2012 Grade 500B	CS2:2012 Grade 500B (Coil)	BS4449:2005 Grade B500B (Coil / Decoiled Bar)	Q.A. Cert. Expiry Date
China	CHA154	Tangshan Donghua Steel Enterprise Group Co., Ltd.	#			20.12.2024
	CHA152	Guangdong Huamei Baohua New Material Development Co., Ltd.	#			22.03.2027
	CHA157	Fangda Special Steel Technology Co., Ltd.	#			17.11.2020
	CHA158	Jiangsu Province Binxin Steel Group Co., Ltd.	#			06.08.2024
	CHA159	Jingye Iron and Steel Co., Ltd.	#			30.08.2024
	CHA160	Hebei Xinda Iron & Steel Group Co., Ltd.	#			19.01.2023
	CHA161	Guangzhou Iron & Steel New Material Co., Ltd.	#			07.03.2025
	CHA162	Guangdong Gangyuan Metal Industry Co., Ltd.	#			06.08.2024
	CHA164	Guangxi Iron & Steel Group Co., Ltd.	#	#		19.06.2025
	CHA165	Liuzhou Iron & Steel Company Limited	#	#		19.06.2025
	CHA166	Shandong Iron & Steel Group Yongfeng Lingang Corporation	#			21.02.2025
	CHA167	Rizhao Steel Holding Group Co., Ltd.	#			08.12.2024
	CHA168	Tongling City Xuanli Special Steel Co.,Ltd.	#			04.11.2023
	CHA169	Zenith Steel Group (Nan Tong) Co., Ltd.	#			14.09.2025
	CHA170	Guangdong Shengye Steel Company Ltd.	#			19.06.2026
	CHA171	Yangchun New Iron & Steel Co., Ltd.	#	#		10.07.2025
	Hong Kong	HKG8	Shiu Wing Steel Limited	#		
HKG9		Shiu Wing Steel Limited	#			16.09.2026
India	INA1	JSW Steel Limited	#			22.12.2022
	INA2, INA3	Jindal Steel & Power Limited	#			27.09.2023
	INA4	ESL Steel Ltd.	#			15.05.2025
Indonesia	IND6	PT. Putra Baja Deli	#			15.05.2022
	IND7, IND8	PT. TUNGGAL JAYA STEEL	#			07.09.2023
	IND9	PT. Dexin Steel Indonesia	#			09.11.2025
Japan	JPN9	SANKO SEIKO CO., LTD.	#			31.08.2023
Korea	KOR23, KOR24	Dachan Steel Co., Ltd.		#	#	30.07.2021
Malaysia	MAL19	Southern Steel Berhad	#			27.08.2021
	MAL20, MAL21	Alliance Steel (M) Sdn. Bhd.	#			23.12.2024
Oman	OMN1	Jindal Shaded Iron and Steel LLC	#			10.05.2021
	OMN2	Jindal Shaded Iron and Steel LLC	#			25.04.2024
	OMN3	Moon Iron & Steel Co. S.A.O.C	#			19.04.2024
	OMN4	Sohar Steel L.L.C.	#			09.05.2026
Qatar	QTR2	Qatar Steel Company	#			09.04.2021
	QTR3	Qatar Steel Company (Q.P.S.C) (Note 3)	#			08.06.2026
Russia	RUS5	JSC "EVRAZ Consolidated West Siberian Metallurgical Plant	#			10.11.2023
	RUS7	Abinsk Electric Steel Works, Ltd.	#			20.10.2025
	RUS8	AO Steel Works Balakovo	#			18.05.2026
Saudi Arabia	SDA6	Al-Ittefaq Steel Products Company	#			05.01.2026
	SDA7, SDA8	Saudi Iron and Steel Company (HADEED)	#			01.04.2025
Singapore	SGP6, SGP7	Natsteel Holdings Pte. Ltd.		#	#	28.06.2024
	SGP8	Natsteel Holdings Pte. Ltd.	#			28.06.2024
Spain	SPN17	Nervacero S.A. (Barrio Ballonti)		#	#	24.06.2024
	SPN19	Compañía Española de Laminación, S.L. (CELSA Barcelona)		#		20.03.2027
Taiwan	TAW13	Power Steel Co., Ltd.	#			09.05.2022
	TAW14	Wei Chih Steel Industrial Co., Ltd.	#			28.06.2025
Turkey	TUK33	ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.	#	#	#	15.12.2023
	TUK34	Diler Iron and Steel Co., Inc.	#			04.04.2023
	TUK35, TUK44	Izmir Demir Celik Sanayi A.S.	#			05.12.2026
	TUK36, TUK43	Akdemir Celik Sanayi Ve Ticaret A.S.	#			29.10.2026
	TUK37	Kroman Celik Sanayi A.S.	#	#		15.02.2027
	TUK38	Kaptan Demir Celik Endustrisi Ve Ticaret A.S.	#			19.03.2019
	TUK39	Ekinciler Demir Ve Celik Sanayi A.S.	#			15.09.2021
	TUK40	Bastug Metalurji Sanayi A.S.	#			17.06.2023
	TUK41	Habas Sinai Ve Tibbi Gazlar Istihsal Endustrisi A.S.	#			18.08.2021
	TUK42	Yazici Iron & Steel Co., Inc.	#			15.12.2023

**List of Bar Pattern Codes for Quality Assured Manufacturers to
CS2 : 2012 (July 2024)**

Origin	Bar Pattern Code	Manufacturer Name	CS2:2012 Grade 500B	CS2:2012 Grade 500B (Coil)	BS4449:2005 Grade B500B (Coil / Decoiled Bar)	Q.A. Cert. Expiry Date
United Arab Emirates	UAE2	Conares Metal Supply Limited	#			04.05.2024
	UAE3	Emirates Steel Industries Co. PJSC	#			29.06.2024
	UAE4	QATAR STEEL COMPANY FZE	#			21.12.2023
	UAE5	Union Iron & Steel Co. L.L.C.	#			22.01.2024
Ukraine	UKR3	PJSC "ArcelorMittal Kryvyi Rih"	#			22.05.2022
Vietnam	VNM3	Shengli Vietnam Special Steel Co., Ltd.	#			29.09.2025
	VNM4	Hoa Phat Hai Duong Steel Joint Stock Company	#			22.11.2026
	VNM5	Hoa Phat Dung Quat Steel Joint Stock Company	#			09.01.2027
	VNM6	Vina Kyoiei Steel Company Limited	#			13.04.2024
	VNM7	VAS Group Nghi Son Joint Stock Company	#			15.06.2026

- Note: 1. # Bar pattern has been registered for the relevant standard.
2. Please refer to the relevant drawing on bar pattern for bar size registered.
3. Name change for Qatar Steel Company to Qatar Steel Company (Q.P.S.C.) was recorded on 08 May 2019.
4. Name change for Shandong Shiheng Special Steel Group Co., Ltd. to Shiheng Special Steel Group Co., Ltd. was recorded on 01 February 2021.
5. Name change for SGIS Songshan Co., Ltd. To Guangdong Zhongnan Iron & steel Co., Ltd. was recorded on 17 May 2023.

**List of Bar Pattern Codes for Quality Assured Manufacturers to
CS2 : 2012 Grade 500C / BS4449:2005 Grade B500C (July 2024)**

Origin	Bar Pattern Code	Manufacturer Name	CS2:2012 Grade 500C	CS2:2012 Grade 500C (Coil)	BS4449:2005 Grade B500C (Coil / Decoiled Bar)	Q.A. Cert. Expiry Date
Hong Kong	HKG6	Shiu Wing Steel Limited	#			16.09.2026
Spain	SPN18	Nervacero S.A. (Barrio Ballonti)		#	#	08.08.2021

Note: 1. # Bar pattern has been registered for the relevant standard.

2. Please refer to the relevant drawing on bar pattern for bar size registered.

**List of Bar Pattern Codes for Quality Assured Manufacturers to
CS2 : 1995 (July 2024)**

Origin	Bar Pattern Code	Manufacturer Name	CS2:1995 Grade 460	Q.A. Cert. Expiry Date
China	CHA5, CHA6, CHA14, CHA15 CHA45, CHA63	Guangzhou Iron & Steel Holdings Ltd.	#	28.09.2019
	CHA11, CHA30, CHA35 CHA50, CHA52, CHA56	Laiwu Steel Corporation	#	13.02.2015
	CHA39, CHA67	Tianjin Tiantie Zhaer Steel Production Co., Ltd.	#	17.11.2016
	CHA46	Tianjin Iron & Steel Group Co., Ltd.	#	15.09.2018
	CHA33, CHA51, CHA55 CHA130	Jiangsu Shagang Group Co., Ltd.	#	07.05.2022
	CHA58, CHA78	Rizhao Steel Wire Co., Ltd	#	15.09.2018
	CHA59, CHA142	Guangzhou Panyu Yufeng Iron & Steel Co., Ltd.	#	07.07.2022
	CHA62	Shanghai Shente Beam Co., Ltd.	#	01.12.2016
	CHA65	SGIS Songshan Co., Ltd.	#	08.05.2018
	CHA66	Gaoming Jianming Steel Rolling Fty. Ltd. of Foshan	#	22.06.2018
	CHA68	MaoMing HengDa Iron & Steel Co., Ltd.	#	03.06.2015
	CHA70, CHA75	Shenzhen Welmetal Steel Co., Ltd.	#	08.06.2017
	CHA73	Zhuhai Yueyufeng Iron & Steel Co., Ltd	#	07.07.2022
	CHA74, CHA77	Jiangsu Yonggang Group Co., Ltd.	#	19.05.2025
	CHA76	Benxi Beiyang Iron & Steel (Group) Co., Ltd.	#	19.05.2023
	CHA79	Jiangyin Xicheng Steel Co., Ltd.	#	27.09.2020
	CHA80	Tianjin Metallurgy Group Zha San Metal Material Science & Technology Co., Ltd.	#	15.09.2018
	CHA83	Nanjing Iron & Steel Co., Ltd.	#	03.11.2016
	CHA84	Liuzhou Iron & Steel Co., Ltd.	#	15.09.2018
	CHA89	Hebei Taigang Iron & Steel Rolling Co., Ltd.	#	30.06.2016
	CHA90	Lingyuan Iron & Steel Co., Ltd.	#	17.11.2017
	CHA91, CHA153	Tangshan Donghua Steel Enterprise Group Co., Ltd.	#	20.12.2024
	CHA92	GuangdongTaidu Iron and Steel Industrial Co., Ltd.	#	14.11.2015
	CHA94, CHA123	Hebei Iron and Steel Group Jingye Iron and Steel Co., Ltd.	#	09.09.2015
	CHA99, CHA150	Hebei Jinxi Iron and Steel Group Co., Ltd.	#	12.08.2022
	CHA100	Wuhu Xinxing Ductile Iron Pipes Co., Ltd.	#	25.07.2017
	CHA107	Guangxi Guigang Iron And Steel Group Co., Ltd.	#	15.09.2018
	CHA110	Shandong Laigang Yongfeng Steel Corp.	#	14.09.2018
	CHA111, CHA120	Jiangyin City Changda Steel Co., Ltd.	#	18.10.2017
	CHA113	Shandong shiheng Special Steel Co., Ltd.	#	05.01.2018
	CHA119	Shan Dong Minyuan Iron & Steel Co. Ltd.	#	03.11.2017
	CHA121	Jiangsu Xinlin Iron & Steel Co. Ltd.	#	27.10.2017
CHA132	Shandong Iron and Steel Company Ltd. Laiwu Company	#	29.01.2018	
CHA133	Fushun New Steel Corporation Ltd.	#	30.10.2025	
CHA135	Angang Steel Company Ltd.	#	02.07.2018	
CHA137	Northern Guangdong United Steel and Iron Co., Ltd.	#	29.01.2019	
CHA139	Xinxing Ductile Iron Pipes Co., Ltd.	#	31.07.2018	
CHA145	Longnan Fuxin Iron & Steel Co., Ltd.	#	14.09.2018	
Hong Kong	HKG1, HKG2, HKG3 HKG4, HKG5, HKG7	Shiu Wing Steel Limited	#	16.09.2026
Korea	KOR15, KOR16, KOR17, KOR18, KOR19, KOR20, KOR21	Hyundai Steel Company	#	19.11.2014
Russia	RUS6	JSC "EVRAZ Consolidated West Siberian Metallurgical Plant"	#	10.11.2020
Spain	SPN2, SPN9, SPN10, SPN11, SPN12	Nervacero S.A. (Barrio Ballonti)	#	30.09.2018
Taiwan	TAW1, TAW11	Hai Kwang Enterprise Corporation	#	13.11.2016
	TAW7	Wei Chih Steel Industrial Co., Ltd.	#	28.06.2016
	TAW8	Feng Hsin Steel Co., Ltd.	#	06.06.2020
	TAW12	Shen Yu Steel Co., Ltd.	#	02.06.2016

List of Quality Assured Stockists Conformed to
CS2 : 2012 (July 2024)

Page 1 of 3

No.	Name of Stockist	Q.A. Cert. Expiry Date
1	Shiu Wing Steel Limited	16.09.2026
2	Shiu Wing Trading Company Limited	16.09.2026
3	Hong Kong KYH Metal Co., Limited	23.03.2026
4	K.Y.H. Steel Company Limited	23.03.2026
5	Welmetal Resources Group Limited	27.06.2027
6	VSC Steel Company Limited	28.07.2024
7	Conwy Limited	20.04.2022
8	Topwell Steel International Limited	23.04.2019
9	Hanwa Co., (H.K.) Limited	26.06.2016
10	Golik Metal Manufacturing Co., Ltd.	27.06.2027
11	Golik Steel (HK) Limited	27.06.2027
12	Golik Metal Industrial Co., Ltd.	27.06.2027
13	Globe Star Steel Company Limited	26.09.2027
14	Great Success Steel Company Limited	26.07.2026
15	Unisteel Hong Kong Limited	30.07.2018
16	Sum Kee Metal Co., Ltd.	27.04.2026
17	Lucky Steel Company Limited	29.05.2023
18	Link Wide International Investment (Hong Kong) Limited	06.01.2024
19	Strong Progress Limited	12.01.2027
20	Sun Steel (HK) Company Limited	31.03.2017
21	VA Intertrading China Limited	27.02.2018
22	Lam Nan Kee Trading Limited	13.03.2025
23	D & D Metal Sales Company Limited	01.08.2026
24	Kam Chun Hong Company Limited	29.04.2020
25	Yee Sang Metal & Building Supplies Co., Ltd.	26.08.2024

List of Quality Assured Stockists Conformed to
CS2 : 2012 (July 2024)

Page 2 of 3

No.	Name of Stockist	Q.A. Cert. Expiry Date
26	Thomson Steel Hong Kong Limited	29.05.2027
27	Wang Fa Steel Co., Limited	27.06.2021
28	Golden Laurel Development Limited	29.08.2016
29	Mansfield (Tetley) Metal Products Co., Ltd.	28.07.2026
30	Golden Win Steel Limited	28.04.2025
31	Power Steel Company Limited	14.09.2018
32	Yau Lee Metals and Building Materials Co., Ltd.	30.06.2025
33	Sun Yuen Hong Lim Kee Ltd.	09.08.2017
34	Creative Corpoartion Limited	29.07.2017
35	Wo Lee Steel Co., Ltd.	29.02.2024
36	Sun Steel Company Limited	23.12.2016
37	Kent Metal Co., Ltd.	24.06.2018
38	Golden Laurel Steel Company Limited	29.11.2017
39	Macro Steel Limited	26.04.2017
40	Darwinlie Ltd.	03.12.2015
41	Ever Success Construction Engineering Materials Limited	29.01.2027
42	Hop Fat Company	01.01.2021
43	Mega Pass Steel Company Limited	24.06.2019
44	VSC Construction Steel Solutions Limited (Note 2)	28.07.2024
45	Power Steel Metal Company Limited	24.06.2026
46	Trinity Crown Limited	31.05.2026
47	Orientfunds Construction Materials Limited	29.10/2021
48	SW Construction Limited	16.09.2026
49	Topwell Steel Asia Limited	23.04.2025
50	Fong's Engineering Services Company Limited	28.08.2022
51	Hop Fat Company Limited	22.11.2023

List of Quality Assured Stockists Conformed to
CS2 : 2012 (July 2024)

Page 3 of 3

No.	Name of Stockist	Q.A. Cert. Expiry Date
52	Great Steel Trading Limited	27.02.2027
53	Welmetal Steel (Hong Kong) Limited	25.06.2025
54	Minmetals Cheerglory Limited	17.09.2025
55	Sunrise Bright Construction Materials Company Limited	22.10.2025
56	Hebei Jiwu Metal International (Hong Kong) Co., Limited	28.04.2025
57	AluHouse International Trading Company Limited	10.01.2026
58	King Topwell International Limited	07.09.2026
59	Hing Chin Engineering Co.,Ltd.	11.01.2027
60	Ao Gang Construction (Hong Kong) Limited	08.02.2027
61	Sunrise Green Technology Limited	17.04.2027
62	Xin Yue Co., Ltd.	23.04.2027

Note: 1. The above stockists will automatically comply with the requirements of CS2:1995
2. Name change for TVSC Construction Steel Solutions Limited to VSC Construction Steel Solution Limited issued on 17 May 2018 by Companies Registry in HKSAR

List of Quality Assured Stockists Conformed to
CS2 : 1995 (July 2024)

Page 1 of 1

No.	Name of Stockist	Q.A. Cert. Expiry Date
1	Shiu Wing Steel Limited	16.09.2023
6	Strong Progress Limited	12.01.2024
7	D & D Metal Sales Company Limited	01.08.2023
8	Golik Metal Industrial Co., Ltd.	27.06.2024
11	Globe Star International Limited	31.08.2015
12	VSC Steel Company Limited	28.07.2024
13	Golik Steel Company Limited	05.10.2015
14	Ever Success Construction Engineering Materials Limited	29.01.2024
15	Unisteel Hong Kong Limited	30.07.2018
16	Sun Steel Company Limited	23.12.2016
17	K.Y.H. Steel Company Limited	23.03.2023
18	Lucky Steel Company Limited	29.05.2023
21	Link Wide International Investment (Hong Kong) Limited	06.01.2024
22	Power Steel Company Limited	14.09.2018
23	Win Link Trading Limited.	26.11.2014
24	Globe Star Steel Company Limited	26.09.2024
25	Wo Lee Steel Co., Ltd.	29.02.2024
26	Yau Lee Metals and Building Materials Co., Ltd.	30.06.2025
28	Sum Kee Metal Co., Ltd.	27.04.2026
29	Trinity Crown Limited	31.05.2023
30	Shiu Wing Trading Company Limited	16.09.2023
31	Golik Steel (HK) Limited	27.06.2024
32	Kent Metal Co., Ltd.	24.06.2018
33	Novo Steel (HK) Ltd.	26.08.2015
34	Yee Sang Metal & Building Supplies Co., Ltd.	26.08.2024
35	Darwinlie Ltd.	03.12.2015
37	Lam Nan Kee Trading Limited	13/3/2025
38	Golden Win Steel Limited	28.04.2025
41	Macro Steel Limited	26.04.2017
42	Sun Steel (HK) Company Limited	31.03.2017
43	Great Success Steel Company Limited	26.07.2023
44	Hong Kong KYH Metal Co., Limited	23.03.2023
45	Golden Laurel Steel Company Limited	29.11.2017
46	VA Intertrading China Limited	27.02.2018
47	Thomson Steel Hong Kong Limited	29.05.2024
48	Welmetal Resources Group Limited	27.06.2024
49	Golik Metal Manufacturing Co., Ltd.	27.06.2024
50	Sinco Holdins Limited	26.02.2016

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/TAW/2	The bar sizes of 10, 12, 16, 20,25,32 & 40 mm of new bar pattern TAW 11 have been registered on 19 January 2010
PWL/TUK/3	The bar size of 40 mm of new bar pattern TUK26 has been registered on 5 February 2010
PWL/TUK/3	The bar sizes of 8,10 & 12 mm of new bar pattern TUK27 have been registered on 8 March 2010
PWL/TUK/3	The bar sizes of 8 & 40 mm of new bar pattern TUK28 have been registered on 8 March 2010
PWL/TUK/4	The bar sizes of 8,10,12,16,20,25,32 & 40 mm of new bar pattern TUK29 have been registered on 8 March 2010
PWL/TUK/4	The bar sizes of 8,10,12,16,20,25,32 & 40 mm of new bar pattern TUK30 have been registered on 8 March 2010
PWL/CHA/5	The bar size of 40 mm has been added to bar pattern of CHA39 on 11 March 2010
PWL/CHA/6	The manufacturer's name of CHA46 has been changed on 31 March 2010
PWL/CHA/8	The bar sizes of 16, 20, 25, 32 & 40 mm have been added to bar pattern of CHA67 on 16 April 2010
PWL/CHA/8	The bar sizes of 10 & 12 mm have been added to bar pattern CHA67 on 9 June 2010
PWL/UKD/1	The bar sizes of 8,10,12&16 mm of new bar pattern UKD7 have been registered on 17 June 2010
PWL/UKD/1	The bar sizes of 10,12,14,16,20,25,32,40&50 mm of new bar pattern UKD8 have been registered on 17 June 2010
PWL/UKD/1	The bar size of 20 mm of new bar pattern UKD9 has been registered on 17 June 2010
PWL/THD/2	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern THD12 have been registered on 2 July 2010
PWL/JPN/1	The bar sizes of 10, 12 & 16 mm of new bar pattern JPN8 have been registered on 2 Aug 2010
PWL/MAL/2	The bar size of 12 mm of new bar pattern MAL18 has been registered on 18 Aug 2010
PWL/TAW/2	The bar sizes of 10, 12, 16, 20, 25 & 32 mm of new bar pattern TAW 12 have been registered on 26 August 2010
PWL/CHA/8	The bar sizes of 16, 20, 25 & 32 mm of new bar pattern CHA68 have been registered on 26 August 2010
PWL/CHA/8	The bar sizes of 12 & 32 mm have been added to bar pattern CHA58 on 16 September 2010
PWL/CHA/8	The bar sizes of 16, 25 & 32 mm of new bar pattern CHA69 have been registered on 5 October 2010
PWL/CHA/6	The bar sizes of 10, 12, 16, 20, 25 & 32 mm have been added to bar pattern CHA52 on 5 October 2010
PWL/CHA/9	The bar sizes of 10 & 25 mm of new bar pattern CHA70 have been registered on 11 October 2010
PWL/CHA/6	The bar size of 50 mm has been added to bar pattern CHA52 on 11 October 2010
PWL/THD/2	The bar size of 40mm has been added to bar pattern THD12 on 25 November 2010
PWL/SGP/1	The bar sizes of 25, 32, 40 & 50 mm of new bar pattern SGP4 have been registered on 6 December 2010
PWL/SGP/1	The bar sizes of 10, 12, 16 & 20 mm of new bar pattern SGP5 have been registered on 6 December 2010
PWL/CHA/9	The bar size of 20 has been added to bar pattern CHA70 on 21 February 2011
PWL/TUK/4	The bar sizes of 8, 16 & 40 mm of new bar pattern TUK31 have been registered on 4 March 2011
PWL/TUK/4	The bar sizes of 10, 12, 20, 25 & 32 mm have been added to bar pattern TUK31 on 18 March 2011
PWL/CHA/9	The bar size of 32 mm was added to bar pattern CHA70 on 18 March 2011
PWL/TUK/4	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm have been added to bar pattern TUK32 on 7 June 2011
PWL/CHA/9	The bar size of 40 mm has been added to bar pattern CHA70 on 21 June 2011
PWL/CHA/9	The bar sizes of 16, 20 & 25mm of new bar pattern CHA71 have been registered on 25 July 2011
PWL/TUK/4	The bar size of 50 mm has been added to bar pattern TUK31 on 1 September 2011
PWL/CHA/8	The bar size of 12mm has been added to bar pattern CHA68 on 6 October 2011
PWL/CHA/9	The bar sizes of 16, 20, 25 & 32mm of new bar pattern CHA72 have been registered on 7 October 2011
PWL/CHA/9	The bar size of 50 mm has been added to bar pattern CHA70 on 17 October 2011
PWL/VNM/1	The bar sizes of 12, 16 & 20 mm of new bar pattern VNM2 have been registered on 27 October 2011
PWL/TAW/2	The bar size of 40mm has been added to bar pattern TAW 12 on 4 January 2012
PWL/CHA/9	The bar size of 40 mm has been added to bar pattern CHA62 on 5 March 2012
PWL/CHA/9	The bar sizes of 10, 12, 16, 20, 25, 32,40 & 50mm of new bar pattern CHA73 have been registered on 22 March 2012
PWL/CHA/9	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA74 have been registered on 3 May 2012

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/UAE/1	The bar sizes of 8, 10, 12, 16, 20, 25 & 32mm of new bar pattern UAE1 have been registered on 19 Jun 2012
PWL/CHA/9	The bar sizes of 25 & 32 mm of new bar pattern CHA75 have been registered on 13 July 2012
PWL/CHA/9	The bar sizes of 12, 16, 20, 25, 32 & 40 mm of new bar pattern CHA76 have been registered on 1 August 2012
PWL/CHA/6	The bar size of 10 mm has been added to bar pattern CHA46 on 28 August 2012
PWL/CHA/9	The bar size of 12 mm has been added to bar pattern CHA72 on 28 August 2012
PWL/CHA/7	The bar sizes of 10 and 40 mm have been added to bar pattern CHA59 on 24 September 2012
PWL/CHA/6	The bar size of 40 mm has been added to bar pattern CHA51 on 11 October 2012
PWL/CHA/9	The bar sizes of 16, 20 & 40 mm have been added to bar pattern CHA75 on 12 November 2012
PWL/CHA/9	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm of new bar pattern CHA77 have been registered on 21 Nov 2012
PWL/CHA/7	The bar size of 40 mm has been added to bar pattern CHA58 on 28 December 2012
PWL/CHA/10	The bar size of 32 mm of new bar pattern CHA78 has been registered on 28 Dec 2012
PWL/CHA/9	The bar sizes of 12 & 16 mm have been added to bar pattern CHA70 on 3 January 2013
PWL/HKG/1	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50 mm of new bar pattern HKG6 for Grade 500C have been registered on 24 Jan 2013
PWL/CHA/10	The bar sizes of 12, 16 & 20 mm of new bar pattern CHA79 have been registered on 6 Feb 2013
PWL/CHA/10	The bar sizes of 12, 16, 20, 25, 32 & 40 mm of new bar pattern CHA80 have been registered on 1 Mar 2013
PWL/CHA/10	The bar sizes of 10, 25 and 32 mm have been added to bar pattern CHA79 on 4 Mar 2013
PWL/CHA/10	The bar sizes of 10, 12 and 20 mm of new bar pattern CHA81 have been registered on 14 Mar 2013
PWL/UAE/1	The bar sizes of 10, 12, 16, 20, 25 & 32 mm of bar pattern UAE1 for Grade 500B have been registered on 31 May 2013
PWL/CHA/10	The bar size of 40 mm has been added to bar pattern CHA78 on 31May 2013
PWL/HKG/1	The bar size of 25 mm of new bar pattern HKG7 has been registered on 7 Jun 2013
PWL/HKG/1	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50 mm of new bar pattern HKG8 for Grade 500B have been registered on 7 Jun 2013
PWL/CHA/10	The bar sizes of 20, 25, 32, 40 & 50 mm of new bar pattern CHA82 for Grade 500B have been registered on 18 Jun 2013
PWL/CHA/10	The bar sizes of 12, 16, 20, 25, 32 & 40 mm of new bar pattern CHA83 have been registered on 24 July 2013
PWL/TUK/4	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm for grade 500B have been added to bar pattern TUK33 on 7 Aug 2013
PWL/TUK/4	The bar sizes of 8, 20 & 32 mm for grade 500B have been added to bar pattern TUK34 on 9 Aug 2013
PWL/CHA/10	The bar sizes of 12, 16, 20, 25, 32 & 40 mm of new bar pattern CHA84 have been registered on 27 August 2013
PWL/CHA/10	The bar size of 40 mm has been added to bar pattern CHA79 on 26 August 2013
PWL/CHA/8	The bar size of 50 mm has been added to bar pattern CHA67 on 06 September 2013
PWL/CHA/10	The bar size of 40 mm for grade 500B of new bar pattern CHA85 has been registered on 7 October 2013
PWL/CHA/10	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm for grade 500B of new bar pattern CHA86 have been registered on 7 October 2013
PWL/CHA/10	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm for grade 500B of new bar pattern CHA87 have been registered on 22 October 2013
PWL/CHA/9	The bar size of 10 mm has been added to bar pattern CHA76 on 21 November 2013
PWL/CHA/11	The bar sizes of 16, 20, 25 & 32 mm for grade 500B of new bar pattern CHA88 have been registered on 25 November 2013
PWL/CHA/11	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA89 have been registered on 11 December 2013
PWL/CHA/11	The bar sizes of 12, 16, 25, 32 & 40mm of new bar pattern CHA90 have been registered on 08 January 2014
PWL/CHA/7	The bar sizes of 32 mm and 40 mm have been added to bar pattern CHA58 on 20 January 2014
PWL/CHA/11	The bar sizes of 16, 25, 32 40 & 50mm of new bar pattern CHA91 have been registered on 27 January 2014
PWL/CHA/11	The bar sizes of 16, 20, 25 & 32mm of new bar pattern CHA92 have been registered on 27 January 2014
PWL/CHA/11	The bar size of 20 mm has been added to bar pattern CHA90 on 26 February 2014
PWL/CHA/11	The bar sizes of 10, 12, 16, 20 & 25mm of new bar pattern CHA93 have been registered on 12 March 2014
PWL/CHA/11	The bar size of 50 mm has been added to bar pattern CHA79 on 31 March 2014
PWL/CHA/11	The bar size of 12 mm has been added to bar pattern CHA75 on 30 April 2014
PWL/CHA/11	The bar sizes of 12, 16, 20, 25 & 32mm of new bar pattern CHA94 have been registered on 13 May 2014
PWL/CHA/11	The bar sizes of 10 and 12mm of new bar pattern CHA92 have been registered on 05 June 2014

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/CHA/11	The bar sizes of 10, 12, 14, 16, 20, 25 & 32mm of new bar pattern CHA95 have been registered on 24 June 2014
PWL/CHA/8	The bar size of 10 mm has been added to bar pattern CHA75 on 24 June 2014
PWL/RUS/1	Bar pattern RUS1 and RUS2 have been withdrawn by customer on 8 July 2014
PWL/RUS/1	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern RUS5 have been registered on 8 July 2014
PWL/CHA/12	The bar size of 16 mm has been added to bar pattern CHA82 on 22 July 2014
PWL/CHA/12	The bar sizes of 10, 12, 16, 25, 32 & 40mm of new bar pattern CHA96 have been registered on 23 July 2014
PWL/CHA/12	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA97 have been registered on 23 July 2014
PWL/CHA/12	The bar sizes of 10, 12, 14, 16, 18, 25 & 28mm of new bar pattern CHA98 have been registered on 25 July 2014
PWL/CHA/12	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA99 have been registered on 25 July 2014
PWL/CHA/12	The bar sizes of 16, 20, 25 32 & 40mm of new bar pattern CHA100 have been registered on 28 July 2014
PWL/CHA/12	The bar sizes of 16, 20, 25 32 & 40mm of new bar pattern CHA101 have been registered on 28 July 2014
PWL/CHA/12	The bar size of 50 mm has been added to bar pattern CHA77 on 31 July 2014
PWL/CHA/12	The bar size of 50 mm has been added to bar pattern CHA86 on 31 July 2014
PWL/CHA/12	The bar sizes of 12, 16, 20, 25 32 & 40mm of new bar pattern CHA102 have been registered on 01 August 2014
PWL/CHA/12	The bar sizes of 40 & 50mm of new bar pattern CHA103 have been registered on 01 August 2014
PWL/CHA/12	The bar size of 12 mm has been added to bar pattern CHA82 on 01 August 2014
PWL/CHA/13	The bar sizes of 10, 12, 16, 20, 25 32 & 40mm of new bar pattern CHA104 have been registered on 5 August 2014
PWL/CHA/13	The bar sizes of 10, 12, 16, 20, 25 32 & 40mm of new bar pattern CHA105 have been registered on 11 August 2014
PWL/CHA/13	The bar size of 50 mm has been added to bar pattern CHA75 on 14 August 2014
PWL/CHA/13	The bar sizes of 10, 12, 16, 20, 25 32 & 40mm of new bar pattern CHA106 have been registered on 15 August 2014
PWL/CHA/13	The bar sizes of 12, 16, 20, 25 32 & 40mm of new bar pattern CHA107 have been registered on 20 August 2014
PWL/CHA/13	The bar sizes of 12, 16, 20, 25 32 & 40mm of new bar pattern CHA108 have been registered on 20 August 2014
PWL/CHA/13	The bar size of 40 mm has been added to bar pattern CHA92 on 22 August 2014
PWL/CHA/13	The bar size of 40 mm has been added to bar pattern CHA89 on 10 September 2014
PWL/CHA/13	The bar pattern CHA69 has been withdrawn by customer on 15 September 2014
PWL/CHA/13	The bar sizes of 16, 20, 25 32 & 40mm of new bar pattern CHA109 have been registered on 06 October 2014
PWL/CHA/13	The bar sizes of 40 & 50mm of new bar pattern CHA110 have been registered on 08 October 2014
PWL/CHA/13	The bar sizes of 10, 12, 14, 16, 20, 25 & 32mm of new bar pattern CHA111 have been registered on 09 October 2014
PWL/CHA/13	The bar sizes of 10, 12, 14, 16, 20, 25 & 32mm of new bar pattern CHA112 have been registered on 20 October 2014
PWL/CHA/14	The bar sizes of 16, 32 & 40mm of new bar pattern CHA113 have been registered on 20 October 2014
PWL/CHA/14	The bar sizes of 12, 16, 20, 25 & 32mm have been added to bar pattern CHA110 on 3 November 2014
PWL/CHA/14	The bar size of 10mm has been added to bar pattern CHA80 on 3 November 2014
PWL/CHA/14	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA114 have been registered on 05 November 2014
PWL/CHA/14	The bar sizes of 32, 40 & 50mm of new bar pattern CHA115 have been registered on 10 November 2014
PWL/CHA/14	The bar size of 10mm has been added to bar pattern CHA110 on 18 November 2014
PWL/CHA/14	The bar size of 50mm of new bar pattern CHA116 has been registered on 08 December 2014
PWL/CHA/14	The bar sizes of 12, 25 & 40mm of new bar pattern CHA117 have been registered on 08 December 2014
PWL/CHA/14	The bar size of 50mm of new bar pattern CHA107 has been registered on 08 December 2014
PWL/CHA/14	The bar size of 50mm of new bar pattern CHA108 has been registered on 08 December 2014
PWL/CHA/14	The bar pattern CHA58 was revised by manufacturer on 09 December 2014
PWL/CHA/14	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA118 have been registered on 15 December 2014
PWL/RUS/1	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern RUS6 have been registered on 13 January 2015
PWL/CHA/14	The bar sizes of 12, 20 & 25mm have been added to bar pattern CHA113 on 13 January 2015

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/CHA/14	The bar sizes of 40 & 50mm have been added to bar pattern CHA118 on 19 January 2015
PWL/CHA/14	The bar sizes of 20, 25, 32 & 40mm of new bar pattern CHA119 have been registered on 13 February 2015
PWL/CHA/11	The bar sizes of 10, 12 & 20mm have been added to bar pattern CHA91 on 18 February 2015
PWL/CHA/14	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA120 have been registered on 09 March 2015
PWL/CHA/15	The bar sizes of 10, 12 & 16mm of new bar pattern CHA121 have been registered on 12 March 2015
PWL/CHA/15	The bar sizes of 10, 12 & 16mm of new bar pattern CHA122 have been registered on 12 March 2015
PWL/CHA/15	The bar sizes of 10, 12, 16, 20, 25, 32 and 40mm of new bar pattern CHA123 have been registered on 20 March 2015
PWL/CHA/15	The bar sizes of 40 and 50mm of new bar pattern CHA124 have been registered on 20 March 2015
PWL/CHA/11	The bar size of 50mm has been added to bar pattern CHA90 on 20 March 2015
PWL/CHA/12	The bar size of 50mm has been added to bar pattern CHA99 on 04 May 2015
PWL/CHA/14	The bar size of 50mm has been added to bar pattern CHA114 on 04 May 2015
PWL/CHA/15	The bar sizes of 20, 25, 32 and 40mm of new bar pattern CHA125 have been registered on 07 May 2015
PWL/CHA/15	The bar sizes of 10, 12, 16, 20, 25 and 32mm of new bar pattern CHA126 have been registered on 28 May 2015
PWL/CHA/11	The bar pattern CHA95 was cancelled on 1 June 2015
PWL/CHA/14	The bar size of 10mm has been added to bar pattern CHA113 on 10 June 2015
PWL/CHA/11	The bar sizes of 12 and 40mm have been added to bar pattern CHA88 on 22 June 2015
PWL/CHA/15	The bar sizes of 16, 25 and 40mm of new bar pattern CHA127 have been registered on 09 July 2015
PWL/CHA/14	The bar size of 40mm has been added to bar pattern CHA120 on 09 July 2015
PWL/CHA/12	The bar size of 10mm has been added to bar pattern CHA102 on 11 August 2015
PWL/CHA/14	The bar sizes of 16, 20 and 32mm have been added to bar pattern CHA117 on 13 August 2015
PWL/CHA/15	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA128 have been registered on 01 September 2015
PWL/CHA/16	The bar sizes of 20 & 32mm of new bar pattern CHA129 have been registered on 25 September 2015
PWL/CHA/10	The bar size of 10mm has been added to bar pattern CHA82 on 27 October 2015
PWL/CHA/15	The bar size of 10mm has been added to bar pattern CHA125 on 27 October 2015
PWL/CHA/16	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA130 have been registered on 09 November 2015
PWL/CHA/16	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA131 have been registered on 09 November 2015
PWL/CHA/15	The bar size of 12mm has been added to bar pattern CHA125 on 30 November 2015
PWL/CHA/16	The bar size of 40mm of new bar pattern CHA132 has been registered on 17 December 2015
PWL/CHA/16	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA133 have been registered on 28 December 2015
PWL/CHA/16	The bar sizes of 16, 25, 32 & 40mm of new bar pattern CHA134 have been registered on 13 January 2016
PWL/CHA/15	The bar size of 32mm has been added to bar pattern CHA127 on 15 January 2016
PWL/CHA/15	The bar sizes of 10, 12 & 20mm have been added to bar pattern CHA127 on 25 February 2016
PWL/CHA/16	The bar sizes of 10, 12 & 25mm have been added to bar pattern CHA132 on 08 March 2016
PWL/CHA/16	The bar sizes of 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern CHA135 have been registered on 13 April 2016
PWL/CHA/16	The bar sizes of 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern CHA136 have been registered on 13 April 2016
PWL/CHA/17	The bar sizes of 20, 25 & 32mm of new bar pattern CHA137 have been registered on 15 April 2016
PWL/CHA/16	The bar sizes of 16 & 32mm have been added to bar pattern CHA132 on 21 April 2016
PWL/CHA/17	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA138 have been registered on 25 April 2016
PWL/CHA/17	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA139 have been registered on 25 April 2016
PWL/CHA/17	The bar sizes of 12 & 16mm have been added to bar pattern CHA137 on 27 April 2016
PWL/CHA/17	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA140 have been registered on 12 May 2016
PWL/CHA/13	The bar size 50mm has been added to bar pattern CHA107 and CHA108 on 20 May 2016
PWL/CHA/17	The bar sizes of 12, 16, 20, 25 & 32mm of new bar pattern CHA141 have been registered on 26 May 2016

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/CHA/15	Coil / decoiled bar of sizes 10, 12 & 16mm of bar pattern CHA128 have been registered to BS4449:2005 on 22 July 2016
PWL/CHA/17	The bar sizes of 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA142 have been registered on 01 August 2016
PWL/CHA/10	Coil / decoiled bar of sizes 10, 12 & 16mm of bar pattern CHA86 have been registered to BS4449:2005 on 5 August 2016
PWL/CHA/17	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA143 have been registered on 12 August 2016
PWL/TAW/2	The bar sizes of 16, 20, 25, 32 & 40mm of new bar pattern TAW13 have been registered on 30 August 2016
PWL/CHA/17	The bar size 10mm has been added to bar pattern CHA142 on 28 September 2016
PWL/CHA/18	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA144 have been registered on 28 September 2016
PWL/CHA/18	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA145 have been registered on 28 September 2016
PWL/CHA/18	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA146 have been registered on 12 October 2016
PWL/CHA/14	The bar sizes of 16, 20 and 25mm have been added to bar pattern CHA115 on 17 October 2016
PWL/CHA/12	The bar size of 20mm has been added to bar pattern CHA96 on 26 October 2016
PWL/CHA/18	The bar sizes of 10, 16, 20, 25 & 32 mm of new bar pattern CHA147 have been registered on 09 November 2016
PWL/CHA/18	The bar size of 12mm has been added to bar pattern CHA147 on 18 November 2016
PWL/CHA/15	The bar sizes of 12, 16, 20, 25 & 32mm have been added to bar pattern CHA124 on 08 February 2017
PWL/SGP/2	Coil / decoiled bar of sizes 10, 12 & 16mm of new bar pattern SGP6 have been registered to BS4449:2005 on 14 February 2017
PWL/TUK/4	The bar size of 50mm has been added to bar pattern TUK33 on 15 February 2017
PWL/CHA/18	The bar size of 40 mm of new bar pattern CHA148 has been registered on 27 February 2017
PWL/TUK/4	The bar sizes of 10, 12, 16, 25 & 40 mm have been added to bar pattern TUK34 on 02 March 2017
PWL/CHA/18	Coil / decoiled bar of sizes 10, 12 & 16mm of new bar pattern CHA149 have been registered to BS4449:2005 on 08 March 2017
PWL/SGP/2	Coil / decoiled bar of sizes 10, 12 & 16mm of new bar pattern SGP7 have been registered to BS4449:2005 on 05 April 2017
PWL/CHA/18	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA150 have been registered on 07 April 2017
PWL/CHA/18	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA151 have been registered on 07 April 2017
PWL/CHA/19	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA152 have been registered on 04 May 2017
PWL/CHA/19	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA153 have been registered on 08 May 2017
PWL/CHA/19	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA154 have been registered on 08 May 2017
PWL/TAW/1	The English name of the manufacturer of bar pattern TAW8 has been changed from "Feng Hsin Iron & Steel Co., Ltd." to "Feng Hsin Steel Co., Ltd." and has been recorded on 05 June 2017
PWL/UKR/1	The bar sizes of 8, 10, 12, 16, 20, 25 & 32mm of new bar pattern UKR3 have been registered on 27 June 2017
PWL/TUK/4	Coil / decoiled bar of sizes 6, 8, 10, 12 & 16mm of bar pattern TUK33 have been registered to BS4449:2005 on 17 July 2017
PWL/CHA/19	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA155 have been registered on 28 August 2017
PWL/INA/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern INA1 have been registered on 30 August 2017
PWL/QTR/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern QTR2 have been registered on 14 September 2017
PWL/TUK/5	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK35 have been registered on 25 September 2017
PWL/CHA/19	The bar size of 50mm has been added to bar pattern CHA155 on 09 October 2017
PWL/TUK/5	The bar sizes of 8 & 10mm of new bar pattern TUK36 have been registered on 12 October 2017
PWL/SPN/3	Coil / decoiled bar of sizes 10, 12 & 16mm of new bar pattern SPN17 have been registered to BS4449:2005 on 19 October 2017
PWL/SPN/3	Coil / decoiled bar of sizes 10 & 12mm of new bar pattern SPN18 have been registered to BS4449:2005 on 19 October 2017
PWL/TUK/5	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK37 have been registered on 02 November 2017
PWL/TUK/5	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK38 have been registered on 28 December 2017
PWL/SDA/1	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern SDA6 have been registered on 18 January 2018
PWL/OMN/1	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern OMN1 have been registered on 06 February 2018
PWL/TAW/2	The bar sizes of 10 & 12mm have been added to bar pattern TAW13 on 07 February 2018
PWL/CHA/19	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern CHA156 have been registered on 17 April 2018

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/KOR/3	Coil / decoiled bar of sizes 10 & 16mm of new bar pattern KOR23 have been registered to BS4449:2005 on 23 April 2018
PWL/CHA/19	The bar sizes of 12, 16, 20, 25 & 32mm of new bar pattern CHA157 have been registered on 18 May 2018
PWL/INA/1	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern INA2 have been registered on 12 June 2018
PWL/CHA/19	The bar sizes of 12, 20 & 32mm of new bar pattern CHA158 have been registered on 20 June 2018
PWL/TAW/2	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TAW14 have been registered on 26 July 2018
PWL/KOR/3	Coil / decoiled bar of sizes 12mm registered to BS4449:2005 has been added to bar pattern KOR23 on 17 August 2018
PWL/CHA/14	The bar size of 12mm has been added to bar pattern CHA115 on 16 August 2018
PWL/CHA/14	The bar size of 10mm has been added to bar pattern CHA115 on 19 September 2018
PWL/QTR/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern QTR3 have been registered on 28 September 2018
PWL/UAE/1	The bar pattern UAE1 was cancelled on 19 November 2018
PWL/KOR/3	Coil / decoiled bar of sizes 16mm of new bar pattern KOR24 has been registered to BS4449:2005 on 07 December 2018
PWL/UAE/1	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern UAE2 have been registered on 19 December 2018
PWL/CHA/18	Coil of sizes 10 & 12mm of bar pattern CHA149 have been registered on 02 January 2019
PWL/KOR/3	Coil of sizes 10mm of bar pattern KOR23 has been registered on 14 January 2019
PWL/KOR/3	Coil / decoiled bar of sizes 10mm registered to BS4449:2005 has been added to bar pattern KOR24 on 15 January 2019
PWL/KOR/3	Coil of sizes 10 & 16mm of bar pattern KOR24 have been registered on 15 January 2019
PWL/TUK/5	Coil of sizes 10, 12, 16 & 20mm of bar pattern TUK37 have been registered on 13 February 2019
PWL/MAL/3	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern MAL19 have been registered on 21 February 2019
PWL/MAL/3	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern MAL20 have been registered on 21 February 2019
PWL/SPN/3	Coil of sizes 10, 12 & 16mm of bar pattern SPN17 have been registered on 15 March 2019
PWL/SPN/3	Coil of sizes 10 & 12mm of bar pattern SPN18 have been registered on 15 March 2019
PWL/CHA/20	The bar sizes of 10, 12, 20, 32 & 40mm of new bar pattern CHA159 have been registered on 01 April 2019
PWL/UAE/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern UAE3 have been registered on 26 April 2019
PWL/QTR/1	The name of the manufacturer of bar pattern QTR3 has been changed from "Qatar Steel Company" to "Qatar Steel Company (Q.P.S.C.)" and recorded on 08 May 2019
PWL/KOR/3	Coil / decoiled bar of sizes 12mm registered to BS4449:2005 has been added to bar pattern KOR24 on 13 June 2019
PWL/KOR/3	Coil of sizes 12mm has been added to bar pattern KOR24 on 13 June 2019
PWL/TUK/5	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK39 have been registered on 25 June 2019
PWL/INA/1	The bar size of 32mm has been added to bar pattern INA1 on 19 July 2019
PWL/TUK/5	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK40 have been registered on 10 December 2019
PWL/RUS/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern RUS7 have been registered on 19 February 2020
PWL/TUK/4	Additional remark "(•) mark/marks may be found on the opposite side of the bar at random" has been added in the existing bar pattern of TUK34 and recorded on 27 February 2020
PWL/TUK/6	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK41 have been registered on 05 March 2020
PWL/SPN/3	Coil of sizes 8, 10, 12, 16 & 20mm of bar pattern SPN19 have been registered on 03 July 2020
PWL/RUS/1	The bar size of 40mm has been added to bar pattern RUS7 on 03 July 2020
PWL/SGP/2	Coil of sizes 10, 12 & 16mm of bar pattern SGP6 have been registered on 26 August 2020
PWL/SGP/2	Coil of sizes 10, 12 & 16mm of bar pattern SGP7 have been registered on 26 August 2020
PWL/SGP/2	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern SGP8 have been registered on 16 September 2020
PWL/VNM/1	The bar sizes of 10, 12, 16, 20 & 25mm of new bar pattern VNM3 have been registered on 27 October 2020
PWL/OMN/1	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern OMN2 have been registered on 06 November 2020
PWL/TUK/4	Coil of sizes 10mm of bar pattern TUK33 has been registered on 23 November 2020
PWL/VNM/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern VNM4 have been registered on 23 December 2020
PWL/CHA/10	Coil of sizes 10 & 12mm of bar pattern CHA86 have been registered on 18 January 2021
PWL/CHA/20	The bar sizes of 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA160 have been registered on 26 January 2021

List of Revision to Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Revision since 2010
PWL/CHA/15	The name of the manufacturer of bar pattern CHA125 has been changed from "Shandong Shiheng Special Steel Group Co., Ltd." to "Shiheng Special Steel Group Co., Ltd." and recorded on 01 February 2021
PWL/TUK/6	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK42 have been registered on 09 February 2021
PWL/CHA/20	The bar sizes of 16 & 25mm have been added to bar pattern CHA159 on 12 March 2021
PWL/CHA/20	Additional remark "(•) mark/marks may be found on the same side of the bar at random" has been added in the existing bar pattern of CHA159 and recorded on 12 March 2021
PWL/TUK/4	The bar size of 50mm has been added to bar pattern TUK34 on 31 March 2021
PWL/ALA/1	The bar sizes of 8, 10, 12, 16, 20, 25 & 32mm of new bar pattern ALA1 have been registered on 07 April 2021
PWL/IND/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern IND6 have been registered on 03 June 2021
PWL/TUK/6	The bar sizes of 8 & 10mm of new bar pattern TUK43 have been registered on 08 June 2021
PWL/TUK/6	The bar sizes of 12, 16, 20, 25, 32 & 40mm of new bar pattern TUK44 have been registered on 10 June 2021
PWL/SDA/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern SDA7 have been registered on 30 June 2021
PWL/RUS/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern RUS8 have been registered on 09 August 2021
PWL/INA/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern INA3 have been registered on 17 August 2021
PWL/CHA/19	The bar sizes of 16 & 25mm have been added to bar pattern CHA158 on 20 September 2021
PWL/CHA/20	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA161 have been registered on 21 September 2021
PWL/OMN/1	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern OMN3 have been registered on 30 September 2021
PWL/VNM/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern VNM5 have been registered on 22 November 2021
PWL/UAE/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern UAE4 have been registered on 14 March 2022
PWL/IND/1	The bar sizes of 16 & 20mm of new bar pattern IND7 have been registered on 17 March 2022
PWL/IND/1	The bar sizes of 10 & 12mm of new bar pattern IND8 have been registered on 17 March 2022
PWL/SDA/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern SDA8 have been registered on 03 May 2022
PWL/JPN/1	The bar sizes of 10, 12, 16, 20 & 25mm of new bar pattern JPN9 have been registered on 09 June 2022
PWL/CHA/20	The bar sizes of 10, 12 & 16mm of new bar pattern CHA162 have been registered on 05 August 2022
PWL/MAL/3	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern MAL21 have been registered on 05 August 2022
PWL/CHA/20	The bar sizes of 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA163 have been registered on 02 September 2022
PWL/CHA/19	The bar size of 40mm has been added to bar pattern CHA152 on 30 September 2022
PWL/CHA/20	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA164 have been registered on 21 October 2022
PWL/CHA/20	Coil of sizes 6, 8, 10 & 12mm of bar pattern CHA164 have been registered on 21 October 2022
PWL/VNM/1	The bar size of 32mm has been added to bar pattern VMN3 on 25 October 2022
PWL/CHA/20	Coil of size 10mm of bar pattern CHA163 has been registered on 03 November 2022
PWL/CHA/21	The bar sizes of 12, 16, 20, 25, 32, 40 & 50mm of new bar pattern CHA165 have been registered on 16 November 2022
PWL/CHA/21	Coil of sizes 6, 8, 10 & 12mm of bar pattern CHA165 have been registered on 16 November 2022
PWL/UAE/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern UAE5 have been registered on 12 January 2023
PWL/IND/1	The bar sizes of 12, 16, 20, 25, 32 & 40mm of new bar pattern IND9 have been registered on 20 January 2023
PWL/CHA/21	The bar size of 50mm of new bar pattern CHA166 have been registered on 17 February 2023
PWL/CHA/20	The bar size of 50mm has been added to bar pattern CHA164 on 17 February 2023
PWL/CHA/21	The bar size of 25mm of new bar pattern CHA167 have been registered on 7 March 2023
PWL/CHA/20	The name of the manufacturer of bar pattern CHA163 has been changed from SGIS Songshan Co., Ltd. to Guangdong Zhongnan Iron & steel Co., Ltd. and recorded on 17 May 2023.
PWL/VNM/1	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern VNM6 have been registered on 31 May 2023
PWL/CHA/21	The bar size of 10, 12, 16, 20, 25 & 32mm of new bar pattern CHA168 have been registered on 14 June 2023
PWL/CHA/21	The bar size of 10, 12, 16, 20, 25, 32 & 40mm of new bar pattern CHA169 have been registered on 25 August 2023
PWL/VNM/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern VNM7 have been registered on 14 September 2023
PWL/INA/1	The bar sizes of 8, 10, 12, 16, 20, 25 & 32mm of new bar pattern INA4 have been registered on 19 September 2023
PWL/VNM/1	The bar size of 40mm has been added to bar pattern VNM7 and the name of the manufacturer was amended to VAS Group Nghi Son Joint Stock Company on 30 November 2023
PWL/OMN/1	The bar sizes of 10, 12, 16, 20, 25 & 32mm of new bar pattern OMN4 have been registered on 30 November 2023

List of Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Bar Pattern
PWL/ALA1	ALA1
PWL/BZL/1	BZL1
PWL/CHA/1	CHA1, CHA3, CHA4, CHA5, CHA6, CHA7, CHA8, CHA9, CHA10
PWL/CHA/2	CHA11, CHA12, CHA13, CHA14, CHA15, CHA16, CHA17, CHA18, CHA19, CHA20
PWL/CHA/3	CHA22, CHA23, CHA24, CHA25, CHA26, CHA27, CHA28, CHA29, CHA30
PWL/CHA/4	CHA31, CHA32, CHA33, CHA34, CHA35, CHA36
PWL/CHA/5	CHA37, CHA38, CHA39, CHA40, CHA41, CHA42, CHA43, CHA44
PWL/CHA/6	CHA45, CHA46, CHA47, CHA48, CHA49, CHA50, CHA51, CHA52
PWL/CHA/7	CHA53, CHA54, CHA55, CHA56, CHA57, CHA58, CHA59, CHA60, CHA61
PWL/CHA/8	CHA62, CHA63, CHA64, CHA65, CHA66, CHA67, CHA68
PWL/CHA/9	CHA70, CHA71, CHA72, CHA73, CHA74, CHA75, CHA76, CHA77
PWL/CHA/10	CHA78, CHA79, CHA80, CHA81, CHA82, CHA83, CHA84, CHA85, CHA86, CHA87
PWL/CHA/11	CHA88, CHA89, CHA90, CHA91, CHA92, CHA93, CHA94
PWL/CHA/12	CHA96, CHA97, CHA98, CHA99, CHA100, CHA101, CHA102, CHA103
PWL/CHA/13	CHA104, CHA105, CHA106, CHA107, CHA108, CHA109, CHA110, CHA111, CHA112
PWL/CHA/14	CHA113, CHA114, CHA115, CHA116, CHA117, CHA118, CHA119, CHA120
PWL/CHA/15	CHA121, CHA122, CHA123, CHA124, CHA125, CHA126, CHA127, CHA128
PWL/CHA/16	CHA129, CHA130, CHA131, CHA132, CHA133, CHA134, CHA135, CHA136
PWL/CHA/17	CHA137, CHA138, CHA139, CHA140, CHA141, CHA142, CHA143
PWL/CHA/18	CHA144, CHA145, CHA146, CHA147, CHA148, CHA149, CHA150, CHA151
PWL/CHA/19	CHA152, CHA153, CHA154, CHA155, CHA156, CHA157, CHA158
PWL/CHA/20	CHA159, CHA160, CHA161, CHA162, CHA163, CHA164
PWL/CHA/21	CHA165, CHA166, CHA167, CHA168, CHA169, CHA170, CHA171
PWL/CZH/1	CZH1, CZH2, CZH3
PWL/EGT/1	EGT1
PWL/FRE/1	FRE1, FRE2
PWL/GRE/1	GRE1
PWL/GRY/1	GRY1, GRY2, GRY3
PWL/HKG/1	HKG1, HKG2, HKG3, HKG4, HKG5, HKG6, HKG7, HKG8, HKG9
PWL/HOL/1	HOL1, HOL2
PWL/IND/1	IND1, IND2, IND3, IND4, IND5, IND6, IND7, IND8, IND9
PWL/INA/1	INA1, INA2, INA3, INA4
PWL/ITY/1	ITY1, ITY2, ITY3, ITY4, ITY5
PWL/JPN/1	JPN1, JPN2, JPN3, JPN4, JPN5, JPN6, JPN7, JPN8, JPN9
PWL/KOR/1	KOR1, KOR2, KOR3, KOR4, KOR5, KOR6, KOR7, KOR8, KOR9, KOR10
PWL/KOR/2	KOR11, KOR12, KOR13, KOR14, KOR15, KOR16, KOR17, KOR18, KOR19, KOR20
PWL/KOR/3	KOR21, KOR23, KOR24
PWL/LAT/1	LAT1, LAT2, LAT3, LAT4, LAT5
PWL/LUX/1	LUX1
PWL/MAL/1	MAL1, MAL2, MAL3, MAL4, MAL5, MAL6, MAL7, MAL8, MAL9, MAL10
PWL/MAL/2	MAL11, MAL12, MAL13, MAL14, MAL15, MAL16, MAL17, MAL18
PWL/MAL/3	MAL19, MAL20, MAL21
PWL/MDA/1	MDA1
PWL/MEX/1	MEX1, MEX2, MEX3, MEX4, MEX5, MEX6, MEX7, MEX8, MEX9
PWL/NOR/1	NOR1, NOR2, NOR3
PWL/OMN/1	OMN1, OMN2, OMN3, OMN4
PWL/POL/1	POL1, POL2
PWL/QTR/1	QTR1, QTR2, QTR3

List of Drawings on Bar Pattern of Confirmed
Origin Manufactured to CS2 / BS4449:2005 (July 2024)

Drawing No.	Bar Pattern
PWL/ROB/1	ROB1, ROB2, ROB3
PWL/RUS/1	RUS3, RUS4, RUS5, RUS6, RUS7, RUS8
PWL/SAF/1	SAF1, SAF2, SAF3, SAF4, SAF5, SAF6, SAF7, SAF8
PWL/SDA/1	SDA1, SDA2, SDA3, SDA4, SDA5, SDA6, SDA7, SDA8
PWL/SGP/1	SGP1, SGP2, SGP3, SGP4, SGP5
PWL/SGP/2	SGP6, SGP7, SGP8
PWL/SPN/1	SPN1, SPN2, SPN3, SPN4, SPN5, SPN6, SPN7, SPN8, SPN9
PWL/SPN/2	SPN10, SPN11, SPN12, SPN13, SPN14, SPN15, SPN16
PWL/SPN/3	SPN17, SPN18, SPN19
PWL/SWN/1	SWN1
PWL/TAW/1	TAW1, TAW2, TAW3, TAW4, TAW5, TAW6, TAW7, TAW8, TAW9
PWL/TAW/2	TAW10, TAW11, TAW12, TAW13, TAW14
PWL/THD/1	THD1, THD2, THD3, THD4, THD5, THD6, THD7, THD8, THD9, THD10
PWL/THD/2	THD11, THD12
PWL/TUK/1	TUK1, TUK2, TUK3, TUK4, TUK5, TUK6, TUK7, TUK8, TUK9, TUK10
PWL/TUK/2	TUK11, TUK12, TUK13, TUK14, TUK15, TUK16, TUK17, TUK18, TUK19, TUK20
PWL/TUK/3	TUK21, TUK22, TUK23, TUK24, TUK25, TUK26, TUK27, TUK28
PWL/TUK/4	TUK29, TUK30, TUK31, TUK32, TUK33, TUK34
PWL/TUK/5	TUK35, TUK36, TUK37, TUK38, TUK39, TUK40
PWL/TUK/6	TUK41, TUK42, TUK43, TUK44
PWL/UAE/1	UAE2, UAE3, UAE4, UAE5
PWL/UKD/1	UKD1, UKD2, UKD3, UKD4, UKD5, UKD6, UKD7, UKD8, UKD9
PWL/UKR/1	UKR1, UKR3
PWL/VNM/1	VNM1, VNM2, VNM3, VNM4, VNM5, VNM6, VNM7



(●) mark / marks may be found on the same / opposite side of the bar at random

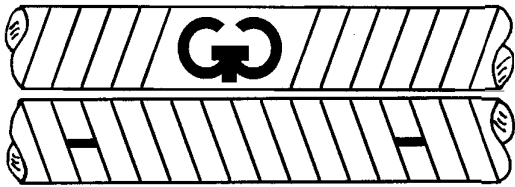
(ALA1)

Tosyali Algerie Fer Et Acier

A	The bar sizes of 8, 10, 12, 16, 20, 25, 32mm were registered for new bar pattern of ALA1	W.C. Leung	07 Apr 2021
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 ALA - ALGERIA
 (Remark: Steel bars were registered to CS2 unless otherwise stated)

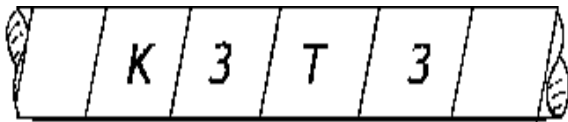
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		
Geotechnical Engineering Office		
Public Works Laboratories		
SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/ALA/1



(BZL1)
GERDAU S.A.

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
BZL - BRAZIL
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

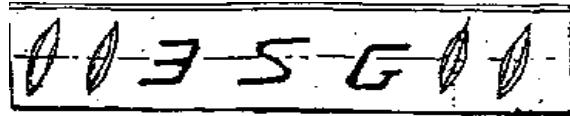
Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/BZL/1	



(CHA1)
Tianjin rolling Mill 3



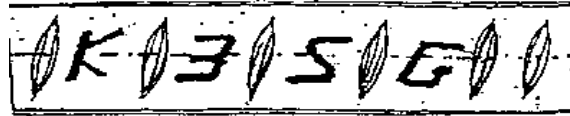
(CHA6)
Guangzhou Iron & Steel Holdings Ltd.



(CHA7)
Shougang Corporation



(CHA3)
Hangzhou Iron & Steel Group Co.



(CHA8)
Shougang Corporation



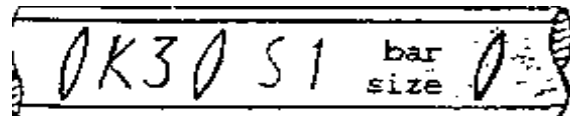
(CHA4)
Jiangsu Shazhou steel Group Co.,



(CHA9)
Chengde Iron and Steel Group Co., Ltd.



(CHA5)
Guangzhou Iron & Steel Holdings Ltd.



(CHA10)
Bao Steel Group Shanghai No.1 Iron And Steel Co. Ltd.

A	CHA2 was deleted on 22 Jul, 2005	K.W. Yam	22 Jul 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories		
SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/CHA/1



(CHA11)

LAIWU STEEL CORPORATION



(CHA16)

Chengde Iron & Steel Group Co., Ltd.



(CHA12)

Shaoguan Iron and Steel Corporation Ltd.



(CHA17)

Tang Shan Iron and steel Co., Ltd.



(CHA13)

Chengde Iron & Steel Group Co., Ltd.



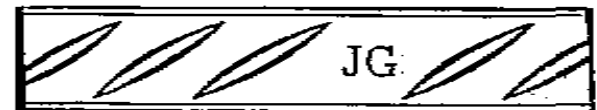
(CHA18)

Bao Steel Group Shanghai No.1 Iron And Steel Co. Ltd.



(CHA14)

Guangzhou Iron & Steel Holdings Ltd.



(CHA19)

Jinan Iron & Steel Group Corp.



(CHA15)

Guangzhou Iron & Steel Holdings Ltd.



(CHA20)

Shaoguan Iron and Steel Corporation Ltd.

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA
(Remark: Steel bars were registered to CS2
unless otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/CHA/2	



Original bar pattern



Alternative bar pattern

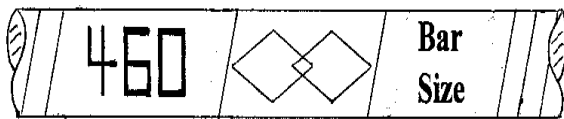
(CHA22)

Maanshan Iron & Steel Co., Ltd.



(CHA27)

Nanjing Iron & Steel Group Co., Ltd.



(CHA23)

Lian Yuan Iron & Steel Group Co., Ltd.



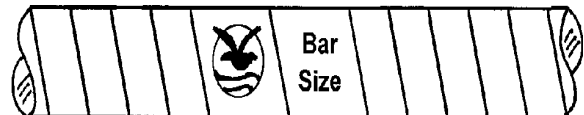
(CHA28)

Nanjing Iron & Steel Group Co., Ltd.



(CHA24)

Shuicheng Iron And Steel (Group) Co., Ltd.



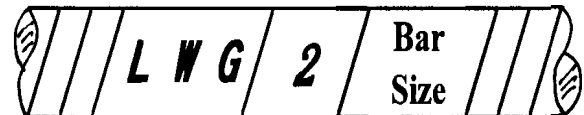
(CHA29)

NanChang Iron & Steel Co., Ltd.



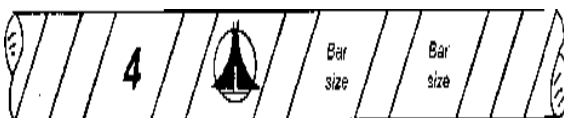
(CHA25)

Pingxiang Iron & Steel Co., Ltd.



(CHA30)

LAIWU STEEL CORPORATION



(CHA26)

SIPING HONGZUI STEEL CO., LTD.

A	The bar sizes of 14,16,22,25 & 30 mm were registered for bar pattern CHA28	T.Y.Cheung	29 Sept 2006
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories		
SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/CHA/3



OR



(CHA34)

PANGANG GROUP CHENGDU IRON & STEEL CO., LTD.



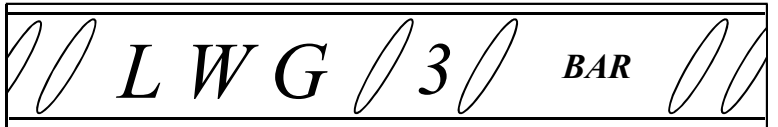
(CHA31)

ANYANG IRON AND STEEL GROUP CO LTD.



(CHA32)

Guangzhou Shuangling Iron & Steel Industry Co., Ltd.



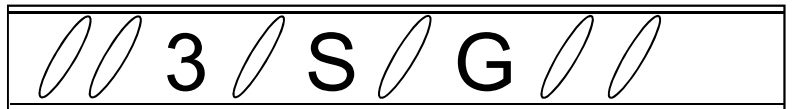
(CHA35)

LAIWU STEEL CORPORATION



(CHA33)

Jiangsu-Shagang Group Co., Ltd.



(CHA36)

China Shougang International Trade & Engineering Corporation

C	The bar sizes of 50 mm was registered for bar pattern of CHA35	C.T.Kwok	08 Oct 2007
B	The bar sizes of 50 mm were registered for bar pattern of CHA32	T.Y.Cheung	26 Jul 2006
A	The bar sizes of 10-32mm were registered for bar pattern of CHA32	K.W.YAM	12 Jan 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

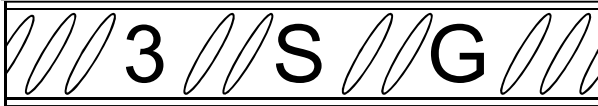
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

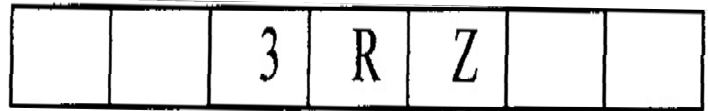
DRAWING NO.

PWL/CHA/4



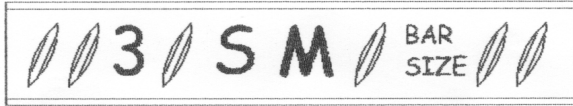
(CHA37)

China Shougang International Trade & Engineering Corporation



(CHA43)

Rizhao Steel Co.,Ltd.



(CHA38)

GuangDong Sino Master Group Co., Ltd



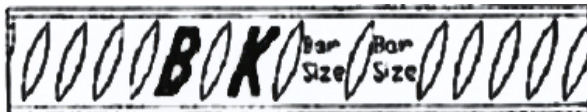
(CHA44)

JiangYin Xicheng Steel Co., Ltd.



(CHA39)

Tianjin Tiantie Zhaer Steel Production Co., Ltd.



(CHA40)

Dayawan Bollink Steel Works Co., Ltd.



(CHA41)

Jinan Iron & Steel Co., Ltd.



(CHA42)

Shenzhen Sino Master Steel Co., Ltd.

M	The bar sizes of 40 mm was registered for bar pattern of CHA39	C.T.Kwok	11 Mar 2010
L	Change of manufacturer's name to Shenzhen Sino Master Steel Co., Ltd. for CHA42	C.T.Kwok	01 Feb 2008
K	The bar sizes of 40 mm was registered for bar pattern of CHA41	C.T.Kwok	02 Nov 2007
J	The bar sizes of 16, 20 & 25 mm were registered for bar pattern of CHA44	C.T.Kwok	07 Mar 2007
I	The bar sizes of 10 mm was registered for bar pattern of CHA41	C.T.Kwok	16 Jan 2007
H	The bar sizes of 40 mm was registered for bar pattern of CHA42	T.Y.Cheung	23 Oct 2006
G	The bar sizes of 16, 20 & 25 mm were registered for new bar pattern of CHA43	T.Y.Cheung	31 Oct 2006
F	The bar sizes of 10-25 mm were registered for bar pattern of CHA39	T.Y.Cheung	21 Sept 2006
E	New bar pattern of CHA42 was registered	Ivy Cheung	11 Apr 2006
D	New bar pattern of CHA41 was registered	Ivy Cheung	24 Mar 2006
C	The bar sizes of 10-40 mm were registered for bar pattern of CHA40	K.W.YAM	5 Aug 2005
B	The bar sizes of 32 & 50 mm were registered for bar pattern of CHA39	K.W.YAM	22 Jul 2005
A	The bar sizes of 20-32mm were registered for bar pattern of CHA38	K.W.YAM	15 Jun 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
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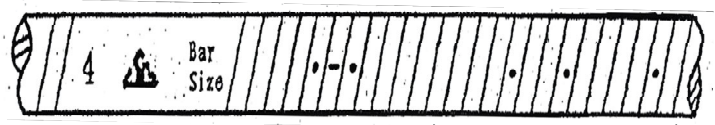
SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/5



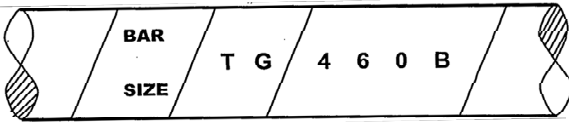
(CHA45)

Guangzhou Iron & Steel Holdings Ltd.



(CHA51)

Jiangsu Shagang Group Co., Ltd.



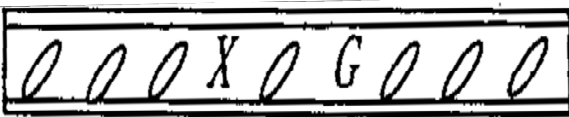
(CHA46)

Tianjin Iron & Steel Group Co. Ltd.



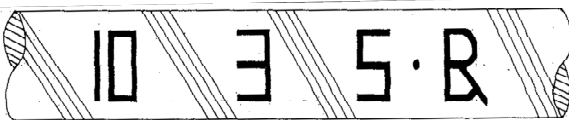
(CHA52)

LAIWU STEEL CORPORATION



(CHA47)

XuanHua Iron and Steel Group Corp., Ltd.



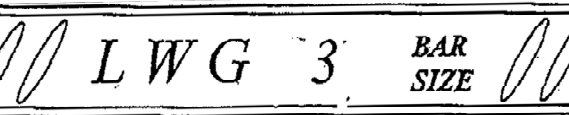
(CHA48)

BAOSTEEL GROUP NANTONG IRON & STEEL CO., Ltd.



(CHA49)

Pingxiang Iron & Steel Co., Ltd.



(CHA50)

LAIWU STEEL CORPORATION

I	The bar size of 40 mm was added to bar pattern of CHA51	Y.W.Yim	11 Oct 2012
H	The bar size of 10 mm was added to bar pattern of CHA46	Y.W.Yim	28 Aug 2012
G	The bar size of 50 mm was added to bar pattern of CHA52	Y.W.Yim	11 Oct 2010
F	The bar size of 10, 12, 16, 20, 25 & 32 mm were added to bar pattern of CHA52	Y.W.Yim	5 Oct 2010
E	The manufacturer' name for CHA46 has been change	C.T.Kwok	31 Mar 2010
D	The bar size of 40 mm was registered for bar pattern of CHA52	C.T.Kwok	28 Apr 2008
C	The bar sizes of 10,12,16,20,25 & 32mm were registered for bar pattern of CHA51	C.T.Kwok	24 Apr 2008
B	The bar sizes of 50 mm was registered for bar pattern of CHA46	C.T.Kwok	11 Mar 2008
A	The manufacturer's name had been changed for bar pattern CHA46	C.T.Kwok	02 Jan 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
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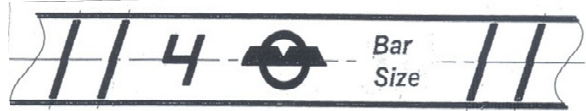
SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/6



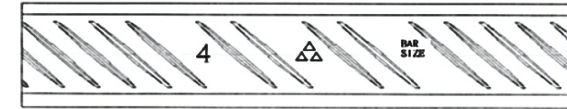
(CHA53)

Maanshan Iron & Steel Co., Ltd.



(CHA54)

Chengde Xinxin Vanadium and Titanium Co., Ltd.



(CHA55)

Jiangsu Shagang Group Co., Ltd.



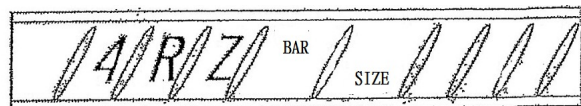
(CHA56)

LAIWU STEEL CORPORATION



(CHA57)

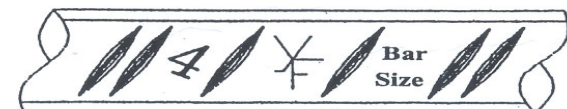
Fushun New Steel Corp. Ltd.



For anti-counterfeiting reason (H) mark /marks may be found on the opposite side of the bar at random

(CHA58)

Rizhao Steel Wire Co., Ltd.



(CHA59)

Guangzhou Panyu Yufeng Iron and Steel Co., Ltd.



(CHA60)

Zhe Jiang Yuanli Metal Products Group Co., Ltd.



(CHA61)

Jining Yuanda Iron Steel Co., Ltd.

O	The bar size of 40 mm was added to bar pattern of CHA58	Y.W.Yim	28 Dec 2012
N	The bar size of 10 and 40 mm were added to bar pattern of CHA59	Y.W.Yim	24 Sept 2012
M	The bar size of 12 mm was added to bar pattern of CHA59	C.T.Kwok	15 Oct 2008
L	The bar size of 40 mm was added to bar pattern of CHA54	C.T.Kwok	26 Aug 2008
K	The bar size of 20 mm was added to bar pattern of CHA57	C.T.Kwok	26 Aug 2008
J	The bar size of 10 mm was registered for new bar pattern of CHA61	C.T.Kwok	15 Aug 2008
I	The bar sizes of 16, 20 & 25 mm were registered for new bar pattern of CHA60	C.T.Kwok	11 Aug 2008
H	The bar sizes of 16, 20 25 & 32 mm were registered for new bar pattern of CHA59	C.T.Kwok	22 July 2008
G	The bar sizes of 16, 20 & 25 mm were registered for bar pattern of CHA58	C.T.Kwok	15 July 2008
F	Additional bar size of 40 mm was registered for bar pattern of CHA56	C.T.Kwok	30 June 2008
E	The bar sizes of 16 & 25 mm were registered for bar pattern of CHA57	C.T.Kwok	11 June 2008
D	The bar sizes of 10,12,16,20&25 mm were registered for bar pattern of CHA56	C.T.Kwok	03 June 2008
C	The bar sizes of 10 mm was registered for bar pattern of CHA55	C.T.Kwok	29 May 2008
B	The bar sizes of 12,16,20,25 & 32 mm were registered for bar pattern of CHA54	C.T.Kwok	08 May 2008
A	The bar sizes of 12,16,20,25 & 32 mm were registered for bar pattern of CHA53	C.T.Kwok	29 Apr 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
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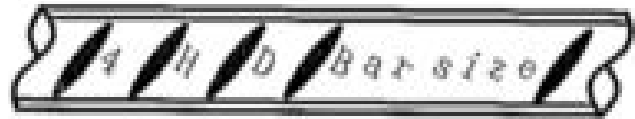
SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/7



(CHA62)

Shanghai Shente Beam Co., Ltd.



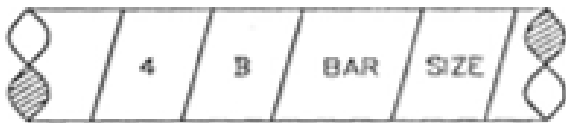
(CHA68)

MaoMing HengDa Iron & Steel Co., Ltd.



(CHA63)

Guangzhou Iron & Steel Holdings Ltd.



(CHA64)

Baotou Iron & Steel (Group) Co., Ltd.



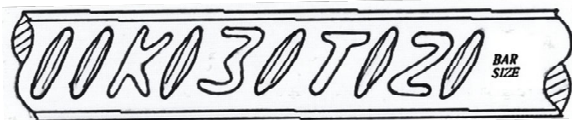
(CHA65)

SGIS SongShan Co., Ltd.



(CHA66)

Gaoming Jianming Steel Rolling Fty. Ltd. of Foshan



(CHA67)

Tianjin Tiantie Zhaer Steel Production Co., Ltd.

P	The bar size of 10 mm was added to bar pattern of CHA75	W.C.Lee	24 June 2014
O	The bar size of 50 mm was added to bar pattern of CHA67	Y.W.Yim	6 Sept 2013
M	The bar size of 12 mm was added to bar pattern of CHA68	Y.W.Yim	6 Oct 2011
L	The bar size of 16, 25 & 32 mm were registered for new bar pattern of CHA69	Y.W.Yim	5 Oct 2010
K	The bar size of 12 & 32 mm were added to bar pattern of CHA58	Y.W.Yim	16 Sep 2010
J	The bar size of 16, 20, 25 & 32 mm were added to bar pattern of CHA68	Y.W.Yim	26 Aug 2010
I	The bar size of 10 & 12 mm were added to bar pattern of CHA67	Y.W.Yim	9 Jun 2010
H	The bar size of 16,20, 25,32 & 40 mm were registered for new bar pattern of CHA67	C.T.Kwok	16 Apr 2010
G	The bar size of 20 & 25 mm were added to bar pattern of CHA66	C.T.Kwok	09 Nov 2009
F	The bar sizes of 10,12 & 16 mm were registered for new bar pattern of CHA66	C.T.Kwok	21 Jan 2009
E	The bar sizes of 10,14,18,20,25,28,32,36 & 40mm were registered for bar pattern of CHA65	C.T.Kwok	16 Jan 2009
D	The bar sizes of 12,16 & 22mm were registered for new bar pattern of CHA65	C.T.Kwok	9 Dec 2008
C	The bar sizes of 16,20,25, & 32 mm were registered for new bar pattern of CHA64	C.T.Kwok	30 Oct 2008
B	The bar sizes of 12,16,20,25,32 & 40 mm were registered for new bar pattern of CHA63	C.T.Kwok	24 Oct 2008
A	The bar sizes of 10,12,16,20,25 & 32 mm were registered for new bar pattern of CHA62	C.T.Kwok	15 Oct 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

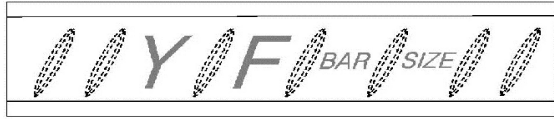
DRAWING NO.

PWL/CHA/8



(CHA70)

Shenzhen Welmetal Steel Co., Ltd.



(CHA71)

Tangshan Guofeng Iron & Steel Co., Ltd.



(CHA72)

Yang Chun New Iron & Steel Co., Ltd.



(CHA73)

Zhuhai Yueyufeng Iron & Steel Co., Ltd.



(CHA74)

Jiangsu Yonggang Group Co., Ltd.



(CHA75)

Shenzhen Welmetal Steel Co., Ltd.



(CHA76)

Benxi Beiyong Iron & Steel (Group) Co., Ltd.



(CHA77)

Jiangsu Yonggang Group Co., Ltd.

Q	The bar size of 10 mm was added to bar pattern of CHA76	Y.W.Yim	21 Nov 2013
P	The bar size of 12 & 16 mm were added to bar pattern of CHA70	Y.W.Yim	3 Jan 2013
O	The bar sizes of 10, 12, 16, 20, 25, 32 and 40 mm were registered for new bar pattern CHA77	Y.W.Yim	21 Nov 2012
N	The bar size of 16, 20 & 40 mm was added to bar pattern of CHA75	Y.W.Yim	12 Nov 2012
M	The bar size of 12 mm was added to bar pattern of CHA72	Y.W.Yim	28 Aug 2012
L	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA76	Y.W.Yim	1 Aug 2012
K	The bar sizes of 25 & 32 mm were registered for new bar pattern of CHA75	Y.W.Yim	13 Jul 2012
J	The bar sizes of 10, 12, 16, 20, 25, 32 and 40 mm were registered for new bar pattern CHA74	Y.W.Yim	3 May 2012
I	The bar sizes of 10, 12, 16, 20, 25, 32, 40 and 50mm were registered for new bar pattern CHA73	Y.W.Yim	22 Mar 2012
H	The bar size of 40 mm was added to bar pattern of CHA62	Y.W.Yim	5 Mar 2012
G	The bar size of 50 mm was added to bar pattern of CHA70	Y.W.Yim	17 Oct 2011
F	The bar sizes of 16, 20, 25 & 32 mm were registered for new bar pattern of CHA72	Y.W.Yim	7 Oct 2011
E	The bar sizes of 16, 20 & 25 mm were registered for new bar pattern of CHA71	Y.W.Yim	25 Jul 2011
D	The bar size of 40 mm was added to bar pattern of CHA70	Y.W.Yim	21 Jun 2011
C	The bar size of 32 mm was added to bar pattern of CHA70	Y.W.Yim	18 Mar 2011
B	The bar size of 20 mm was added to bar pattern of CHA70	Y.W.Yim	21 Feb 2011
A	The bar sizes of 10 & 25 mm were registered for new bar pattern of CHA70	Y.W. Yim	11 Oct 2010
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
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SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/9



(CHA78)

Rizhao Steel Wire Co., Ltd.



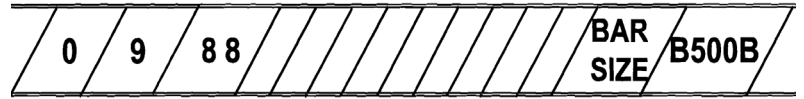
(CHA86)

Jiangsu Yonggang Group Co., Ltd.



(CHA79)

Jiangyin Xicheng Steel Co., Ltd.



(CHA87)

Tianjin Iron & Steel Group Co., Ltd.



(CHA80)

Tianjin Metallurgy Group Zha San Metal Material Science & Technology Co., Ltd.

P	Coil of sizes 10mm & 12 mm were registered for bar pattern of CHA86	W.C. Leung	18 Jan 2021
O	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for bar pattern CHA86 to BS4449:2005	S.W. Tam	5 Aug 2016
N	The bar size of 10 mm was added to the bar pattern of CHA82	S.W. Tam	27 Oct 2015
M	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA87	Y.W. Yim	22 Oct 2013
L	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA86	Y.W. Yim	7 Oct 2013
K	The bar size of 40 mm was registered for new bar pattern of CHA85	Y.W. Yim	7 Oct 2013
J	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA84	Y.W. Yim	27 Aug 2013
I	The bar size of 40 mm was added to the bar pattern of CHA79	Y.W. Yim	26 Aug 2013
H	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA83	Y.W. Yim	24 July 2013
G	The bar sizes of 20, 25, 32, 40 & 50 mm were registered for new bar pattern of CHA82	Y.W. Yim	18 Jun 2013
F	The bar size of 40 mm was added to the bar pattern of CHA78	Y.W. Yim	31 May 2013
E	The bar sizes of 10, 12 and 20 mm were registered for new bar pattern CHA81	Y.W. Yim	14 Mar 2013
D	The bar sizes of 10, 25 and 32 mm were added to the bar pattern CHA79	Y.W. Yim	4 Mar 2013
C	The bar sizes of 12, 16, 20, 25, 32 and 40 mm were registered for new bar pattern CHA80	Y.W. Yim	1 Mar 2013
B	The bar sizes of 12, 16 and 20 mm were registered for new bar pattern CHA79	Y.W. Yim	6 Feb 2013
A	The bar size of 32 mm was registered for new bar pattern of CHA78	Y.W. Yim	28 Dec 2010
Rev.	Revision	Signature	Date



(CHA81)

Tangshan Zhicheng Rolling Co., Ltd.



(CHA82)

Shenzhen Welmetal Steel Co., Ltd.



(CHA83)

Nanjing Iron & Steel Co., Ltd.



(CHA84)

Liuzhou Iron & Steel Co., Ltd.

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
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SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/10



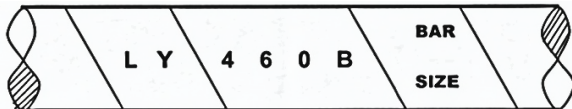
(CHA88)

Rizhao Steel Wire Co., Ltd.



(CHA89)

Hebei Taigang Iron & Steel Rolling Co., Ltd.



(CHA90)

Lingyuan Iron & Steel Co., Ltd.



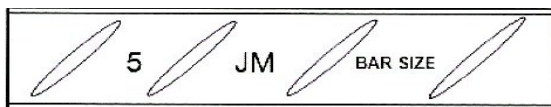
(CHA91)

Tangshan Donghua Steel Enterprise Group Co., Ltd.



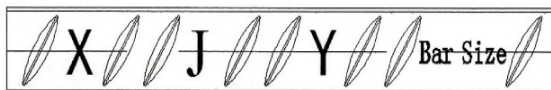
(CHA92)

Guangdong Taidu Iron and Steel Industrial Co., Ltd.



(CHA93)

Gaoming Jianming Steel Rolling Fty. Ltd. of Foshan



(CHA94)

Hebei Iron & Steel Group Jingye Iron & Steel Co., Ltd.

P	The bar size of 12 & 40mm were added to the bar pattern of CHA88	S.W. Tam	22 Jun 2015
O	The bar pattern CHA95 was cancelled	S.W. Tam	1 Jun 2015
N	The bar size of 50mm was added to the bar pattern of CHA90	S.W. Tam	20 Mar 2015
M	The bar size of 10, 12 & 20mm were added to the bar pattern of CHA91	S.W. Tam	18 Feb 2015
L	The bar sizes of 10, 12, 14, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA95	W.C. Lee	24 Jun 2014
K	The bar sizes of 10 & 12 mm were registered for new bar pattern of CHA92	W.C. Lee	05 Jun 2014
J	The bar sizes of 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA94	W.C. Lee	13 May 2014
I	The bar size of 12 mm was added to the bar pattern of CHA75	W.C. Lee	30 Apr 2014
H	The bar size of 50 mm was added to the bar pattern of CHA79	W.C. Lee	31 Mar 2014
G	The bar sizes of 10, 12, 16, 20 & 25 mm were registered for new bar pattern of CHA93	W.C. Lee	12 Feb 2014
F	The bar sizes of 20 mm was added to the bar pattern of CHA90	W.C. Lee	26 Feb 2014
E	The bar sizes of 16, 20, 25 & 32 mm were registered for new bar pattern of CHA92	W.C. Lee	27 Jan 2014
D	The bar sizes of 16, 25, 32 40 & 50 mm were registered for new bar pattern of CHA91	W.C. Lee	27 Jan 2014
C	The bar sizes of 12, 16, 25, 32 & 40 mm were registered for new bar pattern of CHA90	W.C. Lee	26 Feb 2014
B	The bar sizes of 10, 12, 16, 20 25 & 32 mm were registered for new bar pattern of CHA89	W.C. Lee	11 Dec 2013
A	The bar sizes of 16, 20 25 & 32 mm were registered for new bar pattern of CHA88	Y.W. Yim	25 Nov 2013
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

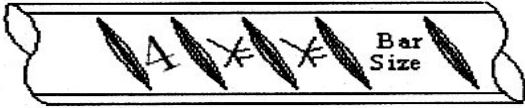
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Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

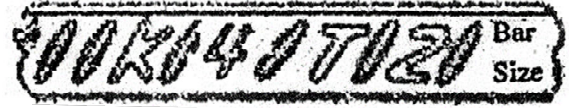
DRAWING NO.

PWL/CHA/11



(CHA96)

Guangzhou Panyu Yufeng Iron and Steel Co., Ltd.



(CHA103)

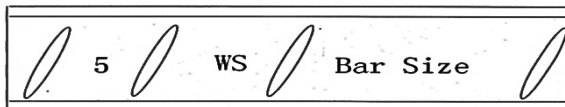
Tianjin Tiantie Zhaer Steel Production Co., Ltd.



(CHA97)

Hebei Taigang Iron & Steel Rolling Co., Ltd.

(●) mark /marks may be found on the same side of the bar at random



(CHA98)

Jiangsu Prosperity Steel Co., Ltd.



(CHA99)

Hebei Jinxi Iron & Steel Group Co., Ltd.



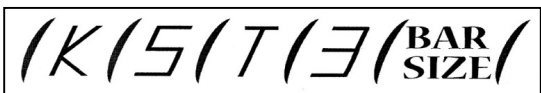
(CHA100)

Wuhu Xinxing Ductile Iron Pipes Co., Ltd.



(CHA101)

Wuhu Xinxing Ductile Iron Pipes Co., Ltd.



(CHA102)

Tianjin Metallurgy Group Zha San Metal Material Science & Technology Co., Ltd.

O	The bar size of 20 mm was added to the bar pattern of CHA96	S.W.Tam	26 Oct 2016
N	The bar size of 10 mm was added to the bar pattern of CHA102	S.W.Tam	11 Aug 2015
M	The bar size of 50 mm was added to the bar pattern of CHA99	S.W.Tam	04 May 2015
L	The bar size of 12 mm was added to the bar pattern of CHA82	W.C. Lee	01 Aug 2014
K	The bar sizes of 40 & 50 mm were registered for new bar pattern of CHA103	W.C. Lee	01 Aug 2014
J	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA102	W.C. Lee	01 Aug 2014
I	The bar size of 50 mm was added to the bar pattern of CHA86	W.C. Lee	31 Jul 2014
H	The bar size of 50 mm was added to the bar pattern of CHA77	W.C. Lee	31 Jul 2014
G	The bar sizes of 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA101	W.C. Lee	28 Jul 2014
F	The bar sizes of 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA100	W.C. Lee	28 Jul 2014
E	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA99	W.C. Lee	25 Jul 2014
D	The bar sizes of 10, 12, 14, 16, 18, 25 & 28 mm were registered for new bar pattern of CHA98	W.C. Lee	25 Jul 2014
C	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA97	W.C. Lee	23 Jul 2014
B	The bar sizes of 10, 12, 16, 25, 32 & 40 mm were registered for new bar pattern of CHA96	W.C. Lee	23 Jul 2014
A	The bar size of 16 mm was added to the bar pattern of CHA82	W.C. Lee	22 Jul 2014
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
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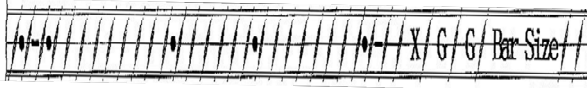
SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/12



(CHA104)

Zhuhai Yueyufeng Iron & Steel Co., Ltd.



(CHA105)

Jiangyin Xicheng Steel Co., Ltd.



(CHA106)

Jiangsu Shagang Group Co., Ltd.



(CHA107)

Guangxi Guigang Iron And Steel Group Co., Ltd.



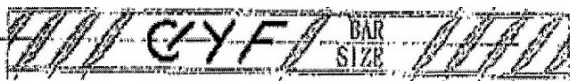
(CHA108)

Guangxi Guigang Iron and Steel Group Co., Ltd.



(CHA109)

Zenith Steel Group Co., Ltd.



(CHA110)

Shandong Laigang Yongfeng Steel Corp.



(CHA111)

Jiangyin City Changda Steel Co., Ltd.



(CHA112)

Benxi Beiyong Iron & Steel (Group) Co., Ltd.

O	The bar size of 50 mm was added to the bar pattern of CHA108	S.W.Tam	20 May 2016
N	The bar size of 50 mm was added to the bar pattern of CHA107	S.W.Tam	20 May 2016
M	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA112	W.C. Lee	20 Oct 2014
L	The bar sizes of 10, 12, 14, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA111	W.C. Lee	9 Oct 2014
K	The bar sizes of 40 & 50 mm were registered for new bar pattern of CHA110	W.C. Lee	8 Oct 2014
J	The bar sizes of 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA109	W.C. Lee	6 Oct 2014
I	Bar pattern CHA69 has been withdrawn by customer	W.C. Lee	15 Sept 2014
H	The bar size of 40 mm was added to the bar pattern of CHA89	W.C. Lee	10 Sept 2014
G	The bar size of 40 mm was added to the bar pattern of CHA92	W.C. Lee	22 Aug 2014
F	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA108	W.C. Lee	20 Aug 2014
E	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA107	W.C. Lee	20 Aug 2014
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA106	W.C. Lee	15 Aug 2014
C	The bar size of 50 mm was added to the bar pattern of CHA75	W.C. Lee	14 Aug 2014
B	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA105	W.C. Lee	11 Aug 2014
A	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA104	W.C. Lee	5 Aug 2014
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

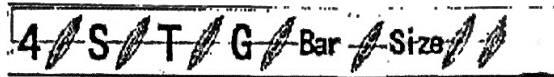
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/CHA/13



(CHA113)

Shandong Shiheng Special Steel Group Co., Ltd.



(CHA114)

Hebei Jinxi Iron & Steel Group Co., Ltd.



(CHA115)

Shandong Iron and Steel Company Ltd. Laiwu Company



(CHA116)

Jiangyin Xicheng Steel Co., Ltd.



(CHA117)

SGIS Songshan Co., Ltd.



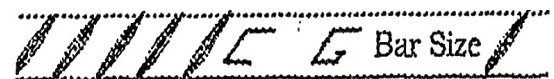
(CHA118)

Shandong Laigang Yongfeng Steel Corp.



(CHA119)

Shan Dong Minyuan Iron & Steel Co. Ltd.



(CHA120)

Jiangyin City Changda Steel Co., Ltd.

W	The bar size of 10 mm was added to the bar pattern of CHA115	W.C. Leung	19 Sep 2018
V	The bar size of 12 mm was added to the bar pattern of CHA115	W.C. Leung	16 Aug 2018
U	The bar sizes of 16, 20 & 25 mm were added to the bar pattern of CHA115	S.W. Tam	17 Oct 2016
T	The bar sizes of 16, 20 & 32 mm were added to the bar pattern of CHA117	S.W. Tam	13 Aug 2015
S	The bar size of 40 mm was added to the bar pattern of CHA120	S.W. Tam	09 Jul 2015
R	The bar size of 10 mm was added to the bar pattern of CHA113	S.W. Tam	10 Jun 2015
Q	The bar size of 50 mm was added to the bar pattern of CHA114	S.W. Tam	04 May 2015
P	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA120	S.W. Tam	9 Mar 2015
O	The bar sizes of 20, 25, 32 & 40 mm were registered for new bar pattern of CHA119	S.W. Tam	13 Feb 2015
N	The bar sizes of 40 & 50 mm were added to the bar pattern of CHA118	S.W. Tam	19 Jan 2015
M	The bar sizes of 12, 20 & 25 mm were added to the bar pattern of CHA113	S.W. Tam	13 Jan 2015
L	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA118	W.C. Lee	16 Dec 2014
K	The bar pattern CHA58 was revised by manufacturer	W.C. Lee	09 Dec 2014
J	The bar size of 50 mm was added to the bar pattern of CHA108	W.C. Lee	08 Dec 2014
I	The bar size of 50 mm was added to the bar pattern of CHA107	W.C. Lee	08 Dec 2014
H	The bar sizes of 12, 25 & 40 mm were registered for new bar pattern of CHA117	W.C. Lee	08 Dec 2014
G	The bar sizes of 50 mm was registered for new bar pattern of CHA116	W.C. Lee	08 Dec 2014
F	The bar size of 10 mm was added to the bar pattern of CHA110	W.C. Lee	18 Nov 2014
E	The bar sizes of 32, 40 & 50 mm were registered for new bar pattern of CHA115	W.C. Lee	10 Nov 2014
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA114	W.C. Lee	07 Nov 2014
C	The bar size of 10 mm was added to the bar pattern of CHA80	W.C. Lee	03 Nov 2014
B	The bar sizes of 12, 16, 20, 25 & 32 mm were added to the bar pattern of CHA110	W.C. Lee	03 Nov 2014
A	The bar sizes of 16, 32 & 40 mm were registered for new bar pattern of CHA113	W.C. Lee	20 Oct 2014
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
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SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/CHA/14

(K14)  (BAR SIZE)

(CHA121)

Jiangsu Xinlin Iron & Steel Co. Ltd.

(K15)  (BAR SIZE)

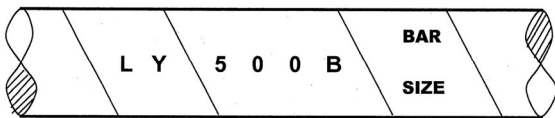
(CHA122)

Jiangsu Xinlin Iron & Steel Co. Ltd.



(CHA123)

Hebei Jingye Iron and Steel Co. Ltd.



(CHA124)

Lingyuan Iron & Steel Co., Ltd.



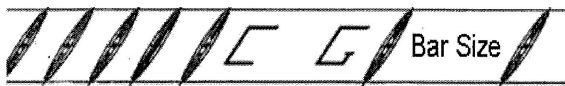
(CHA125)

Shiheng Special Steel Group Co., Ltd.



(CHA126)

Fushun New Steel Corporation Ltd.



(CHA127)

Jiangyin City Changda Steel Co., Ltd.



(CHA128)

Jiangsu Shagang Group Co., Ltd.

O	The bar sizes of 12, 16, 20, 25 and 32mm were added to the bar pattern of CHA124	W.C. Leung	08 Feb 2017
M	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for bar pattern CHA128 to BS4449:2005	S.W. Tam	22 Jul 2016
L	The bar size of 10, 12 and 20mm were added to the bar pattern of CHA127	S.W. Tam	25 Feb 2016
K	The bar size of 32mm was added to the bar pattern of CHA127	S.W. Tam	15 Jan 2016
J	The bar sizes of 12mm was added to the bar pattern of CHA125	S.W. Tam	30 Nov 2015
I	The bar sizes of 10mm was added to the bar pattern of CHA125	S.W. Tam	27 Oct 2015
H	The bar sizes of 10, 12, 16, 20, 25, 32 and 40mm were registered for new bar pattern of CHA128	S.W. Tam	01 Sep 2015
G	The bar sizes of 16, 25 and 40mm were registered for new bar pattern of CHA127	S.W. Tam	09 Jul 2015
F	The bar sizes of 10, 12, 16, 20, 25 and 32mm were registered for new bar pattern of CHA126	S.W. Tam	28 May 2015
E	The bar sizes of 20, 25, 32 and 40mm were registered for new bar pattern of CHA125	S.W. Tam	07 May 2015
D	The bar sizes of 40 and 50mm were registered for new bar pattern of CHA124	S.W. Tam	20 Mar 2015
C	The bar sizes of 10, 12, 16, 20, 25, 32 and 40mm were registered for new bar pattern of CHA123	S.W. Tam	20 Mar 2015
B	The bar sizes of 10, 12 & 16 mm were registered for new bar pattern of CHA122	S.W. Tam	12 Mar 2015
A	The bar sizes of 10, 12 & 16 mm were registered for new bar pattern of CHA121	S.W. Tam	12 Mar 2015
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
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SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/15



(CHA129)

Jiangsu Yang Steel Special Steel Co., Ltd.



(CHA130)

Jiangsu Shagang Group Co., Ltd.



(CHA131)

Anhui Changjiang Steel Co., Ltd.



(CHA132)

Shandong Iron and Steel Company Ltd.

Laiwu Company

- (●) mark /marks may be found on the same side of the bar at random



(CHA133)

Fushun New Steel Corporation Ltd.



(CHA134)

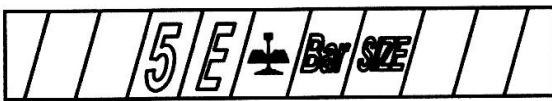
Shandong Iron & Steel Co., Ltd.

Jinan Company



(CHA135)

Angang Steel Company Ltd.



(CHA136)

Angang Steel Company Ltd.

J	The bar sizes of 16 & 32mm were added to the bar pattern of CHA132	S.W. Tam	21 Apr 2016
I	The bar sizes of 12, 16, 20, 25, 32, 40 & 50 mm were registered for new bar pattern of CHA136	S.W. Tam	13 Apr 2016
H	The bar sizes of 12, 16, 20, 25, 32, 40 & 50 mm were registered for new bar pattern of CHA135	S.W. Tam	13 Apr 2016
G	The bar size of 10, 12 & 25mm were added to the bar pattern of CHA132	S.W. Tam	08 Mar 2016
F	The bar sizes of 16, 25, 32 & 40 mm were registered for new bar pattern of CHA134	S.W. Tam	13 Jan 2016
E	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA133	S.W. Tam	28 Dec 2015
D	The bar sizes of 40 mm was registered for new bar pattern of CHA132	S.W. Tam	17 Dec 2015
C	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA131	S.W. Tam	09 Nov 2015
B	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA130	S.W. Tam	09 Nov 2015
A	The bar sizes of 20 & 32 mm were registered for new bar pattern of CHA129	S.W. Tam	25 Sep 2015
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

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DATE July 2024

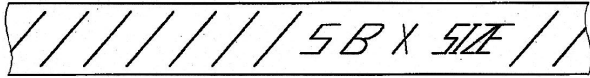
DRAWING NO.

PWL/CHA/16

4ZY BAR SIZE

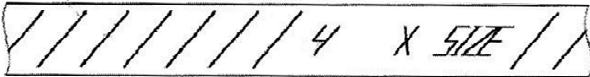
(CHA137)

Northern Guangdong United Steel and Iron Co., Ltd.



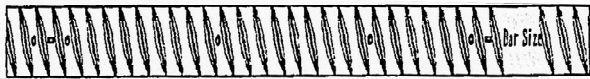
(CHA138)

Xinxing Ductile Iron Pipes Co., Ltd.



(CHA139)

Xinxing Ductile Iron Pipes Co., Ltd.



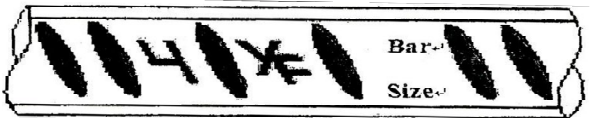
(CHA140)

Zenith Steel Group Co., Ltd.

4EZY BAR SIZE

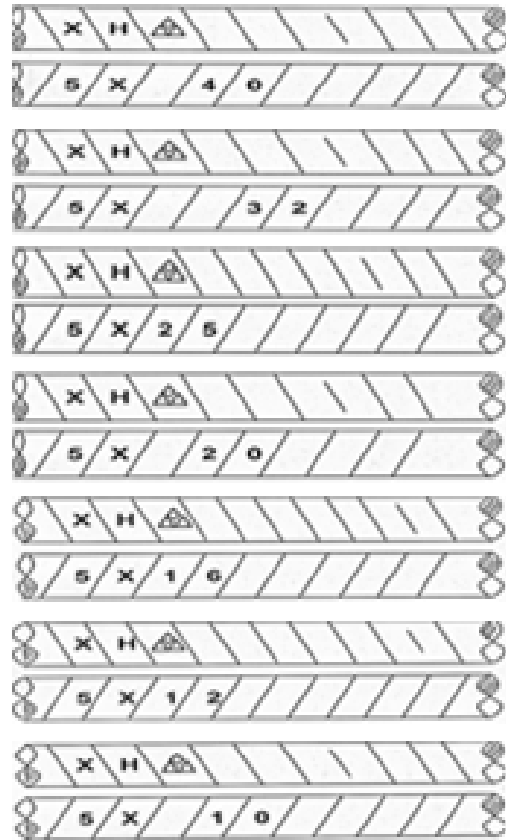
(CHA141)

Northern Guangdong United Steel and Iron Co., Ltd.



(CHA142)

Guangzhou Panyu Yufeng Iron & Steel Co., Ltd.



(CHA143)

Xuanhua Iron & Steel Group Co., Ltd.

I	The bar size of 10 mm was added to the bar pattern of CHA142	S.W. Tam	28 Sep 2016
H	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA143	S.W. Tam	12 Aug 2016
G	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA142	S.W. Tam	01 Aug 2016
F	The bar sizes of 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA141	S.W. Tam	26 May 2016
E	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA140	S.W. Tam	12 May 2016
D	The bar size of 12 & 16mm were added to the bar pattern of CHA137	S.W. Tam	27 Apr 2016
C	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA139	S.W. Tam	25 Apr 2016
B	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA138	S.W. Tam	25 Apr 2016
A	The bar sizes of 20, 25 & 32 mm were registered for new bar pattern of CHA137	S.W. Tam	15 Apr 2016
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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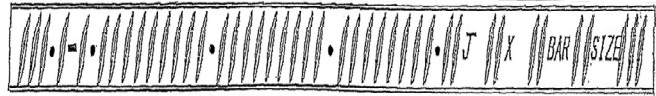
SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/CHA/17



(CHA144)

Longnan Fuxin Iron & Steel Co., Ltd.



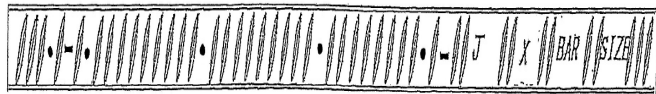
(CHA150)

Hebei Jinxi Iron & Steel Group Co., Ltd.



(CHA145)

Longnan Fuxin Iron & Steel Co., Ltd.



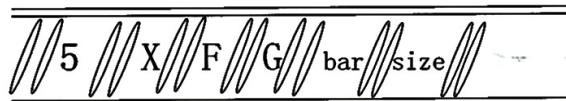
(CHA151)

Hebei Jinxi Iron & Steel Group Co., Ltd.



(CHA146)

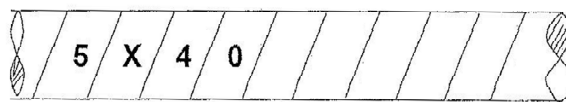
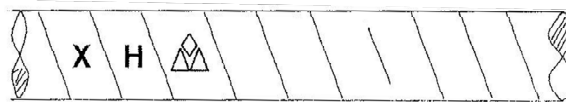
Guangzhou Iron and Steel Holdings Limited.



(CHA147)

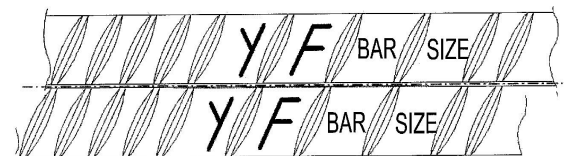
Fushun New Steel Corporation Ltd.

(●) mark /marks may be found on the same side of the bar at random



(CHA148)

Xuanhua Iron & Steel Group Co., Ltd.



(CHA149)

Shandong Laigang Yongfeng Steel Corp.

J	Coil of sizes 10 & 12 mm were registered for bar pattern of CHA149	W.C. Leung	02 Jan 2019
I	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA151	W.C. Leung	07 Apr 2017
H	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA150	W.C. Leung	07 Apr 2017
G	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for new bar pattern CHA149 to BS4449:2005	W.C. Leung	08 Mar 2017
F	The bar size of 40 mm was registered for new bar pattern of CHA148	W.C. Leung	27 Feb 2017
E	The bar size of 12 mm was added to the bar pattern of CHA147	W.C. Leung	18 Nov 2016
D	The bar sizes of 10, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA147	S.W. Tam	09 Nov 2016
C	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA146	S.W. Tam	12 Oct 2016
B	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA145	S.W. Tam	28 Sep 2016
A	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA144	S.W. Tam	28 Sep 2016
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
Public Works Laboratories

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DATE July 2024

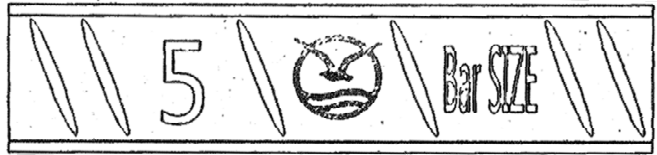
DRAWING NO.

PWL/CHA/18



(CHA152)

Guangdong Huamei Baohua
New Material Development Co., Ltd.



(CHA157)

Fangda Special Steel Technology Co., Ltd.



(CHA153)

Tangshan Donghua Steel Enterprise Group
Co., Ltd.

(●) mark /marks may be found on the
same side of the bar at random



(CHA158)

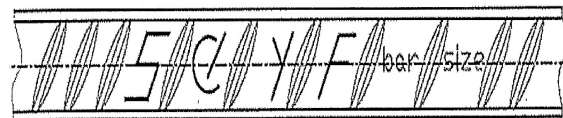
Jiangsu Province Binxin Steel Group Co., Ltd.



(CHA154)

Tangshan Donghua Steel Enterprise Group
Co., Ltd.

(●) mark /marks may be found on the
same side of the bar at random



(CHA155)

Shandong Laigang Yongfeng Steel Corp.



(CHA156)

Shandong Laigang Yongfeng Steel Corp.

J	The bar sizes of 40mm was added to the bar pattern of CHA152	W.C. Leung	30 Sep 2022
I	The bar sizes of 16 & 25mm were added to the bar pattern of CHA158	W.C. Leung	20 Sep 2021
H	The bar sizes of 12, 20 & 32mm were registered for new bar pattern of CHA158	W.C. Leung	20 June 2018
G	The bar sizes of 12, 16, 20, 25 & 32mm were registered for new bar pattern of CHA157	W.C. Leung	18 May 2018
F	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50mm were registered for new bar pattern of CHA156	W.C. Leung	17 Apr 2018
E	The bar size of 50 mm was added to the bar pattern of CHA155	W.C. Leung	09 Oct 2017
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of CHA155	W.C. Leung	28 Aug 2017
C	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA154	W.C. Leung	08 May 2017
B	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA153	W.C. Leung	08 May 2017
A	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of CHA152	W.C. Leung	04 May 2017
Rev.	Revision	Signature	Date

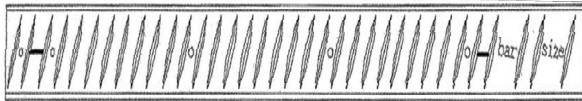
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.
DATE July 2024

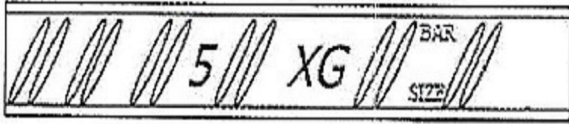
DRAWING NO.
PWL/CHA/19



(CHA159)

Jingye Iron & Steel Co., Ltd.

(●) mark /marks may be found on the same side of the bar at random



(CHA160)

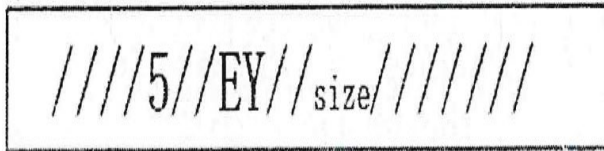
Hebei Xinda Iron & Steel Group Co., Ltd.



(●) mark /marks may be found on the same side of the bar at random

(CHA161)

Guangzhou Iron & Steel New Material Co., Ltd.



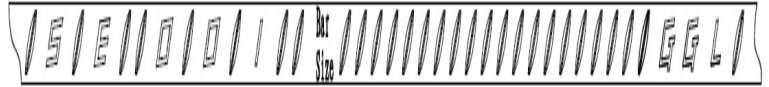
(CHA162)

Guangdong Gangyuan Metal Industry Co., Ltd.



(CHA163)

Guangdong Zhongnan Iron & steel Co., Ltd.



6mm & 8mm



10mm, 12mm, 16mm, 20mm, 25mm, 32mm & 40mm



50mm

(CHA164)

Guangxi Iron & Steel Group Co., Ltd.

J	The bar size of 50mm were added to the bar pattern of CHA164	H.L.LI	17 Feb 2023
I	Coil of size 10mm was registered for bar pattern of CHA163	W.C. Leung	03 Nov 2022
H	Coil of sizes 6, 8, 10 & 12 mm were registered for bar pattern of CHA164	W.C. Leung	21 Oct 2022
G	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA164	W.C. Leung	21 Oct 2022
F	The bar sizes of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA163	W.C. Leung	02 Sep 2022
E	The bar sizes of 10, 12 & 16mm were registered for new bar pattern of CHA162	W.C. Leung	05 Aug 2022
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA161	W.C. Leung	21 Sep 2021
C	The bar sizes of 16 & 25mm were added to the bar pattern of CHA159	W.C. Leung	12 Mar 2021
B	The bar sizes of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA160	W.C. Leung	26 Jan 2021
A	The bar sizes of 10, 12, 20, 32 & 40mm were registered for new bar pattern of CHA159	W.C. Leung	01 Apr 2019
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

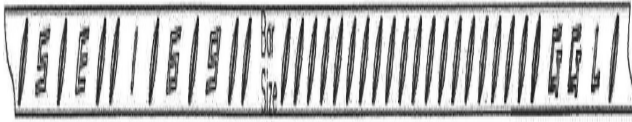
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/CHA/20



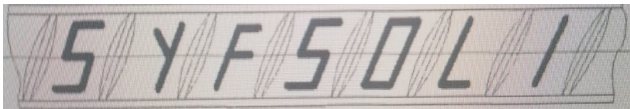
6mm & 8mm



10mm, 12mm, 16mm, 20mm, 25mm, 32mm, 40mm & 50mm

(CHA165)

Liuzhou Iron & Steel Company Limited



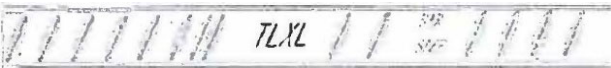
(CHA166)

Shandong Iron & Steel Group Yongfeng
Lingang Corporation



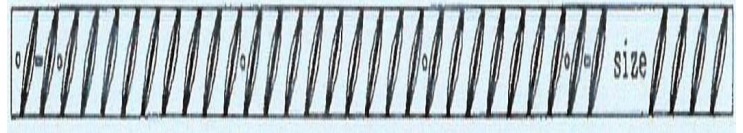
(CHA167)

Rizhao Steel Holding Group Co., Ltd.



(CHA168)

Tongling City Xuanli Special Steel Co.,Ltd.



(CHA169)

Zenith Steel Group (Nan Tong) Co., Ltd.



(CHA170)

Guangdong Shengye Steel Company Ltd.



(CHA171)

Yangchun New Iron & Steel Co., Ltd.

H	Coil of sizes 6, 8, 10 & 12 mm and the bar size of 12, 16, 20, 25, 32, 40 & 50mm were registered for new bar pattern of CHA171	H.L. LI	26 Jun 2024
G	The bar size of 12, 16, 20 & 25mm were registered for new bar pattern of CHA170	H.L. LI	7 Feb 2024
F	The bar size of 10, 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA169	H.L. LI	25 Aug 2023
E	The bar size of 10, 12, 16, 20, 25 & 32mm were registered for new bar pattern of CHA168	H.L. LI	14 Jun 2023
D	The bar size 25mm were registered for new bar pattern of CHA167	H.L. LI	7 Mar 2023
C	The bar size 50mm were registered for new bar pattern of CHA166	H.L. LI	17 Feb 2023
B	Coil of sizes 6, 8, 10 & 12 mm were registered for bar pattern of CHA165	W.C. Leung	16 Nov 2022
A	The bar sizes of 12, 16, 20, 25, 32, 40 & 50mm were registered for new bar pattern of CHA165	W.C. Leung	16 Nov 2022
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(Remark: Steel bars were registered to CS2
unless otherwise stated)

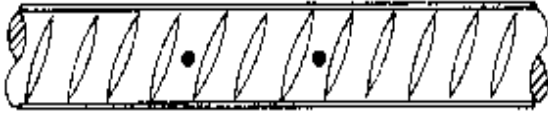
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

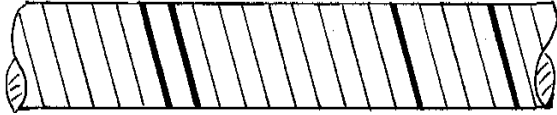
DRAWING NO.

PWL/CHA/21



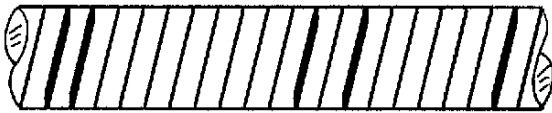
(CZH1)

Nova Hut A.S., Ostrava



(CZH2)

Trinecke Zelezarny, A.S.



(CZH3)

Nova Hut A.S., Ostrava

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 CZH - CZECHOSLOVAKIA
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE		N.T.S.	DRAWING NO. PWL/CZH/1
DATE		July 2024	

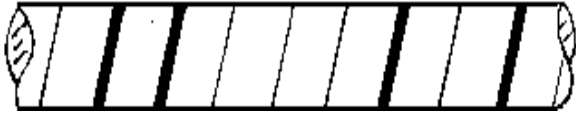


(EGT1)

Alexandria National Iron & Steel Co., S.A.E.

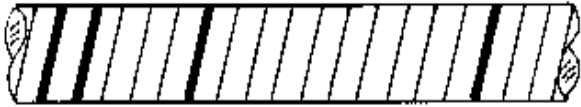
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
EGT - EGYPT
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/EGT/1	



(FRE1)

Acieries Et Laminiers De Parts



(FRE2)

Iton - Seine S.A.

Rev.	Revision	Signature	Date
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BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 FRE - FRANCE
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		DRAWING NO.
Geotechnical Engineering Office		
Public Works Laboratories		PWL/FRE/1
SCALE	N.T.S.	
DATE	July 2024	

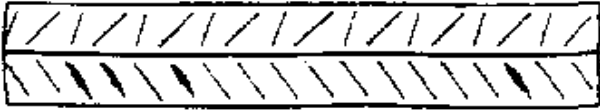


(GRE1)

**Sidenor Steel Products Manufacturing
Co., S.A.**

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
GRE - GREECE
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE		N.T.S.	DRAWING NO. PWL/GRE/1
DATE		July 2024	



(GRY1)

Hennigsdorfer Elektrostahlwerke GmbH



(GRY2)

Brandenburger Elktrostahlwerke GmbH



(GRY3)

Badische Stahwerke GmbH

A	New Bar Pattern GRY3	Y.M. NG	10/04
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 GRY - GERMANY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories		DRAWING NO. PWL/GRY/1
SCALE	N.T.S.	
DATE	July 2024	



(HKG1)
Shiu Wing Steel Ltd.



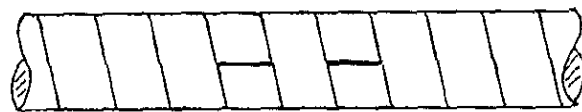
(HKG7)
Shiu Wing Steel Ltd.



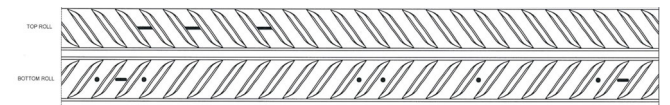
(HKG2)
Shiu Wing Steel Ltd.



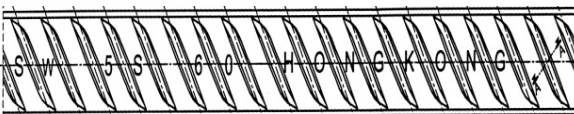
(HKG8)
Shiu Wing Steel Ltd.



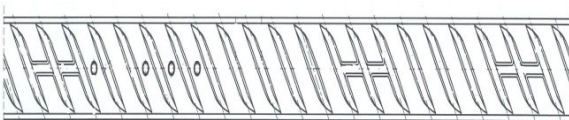
(HKG3)
Shiu Wing Steel Ltd.



(HKG9)
Shiu Wing Steel Ltd.



(HKG4)
Shiu Wing Steel Ltd.



(HKG5)
Shiu Wing Steel Ltd.



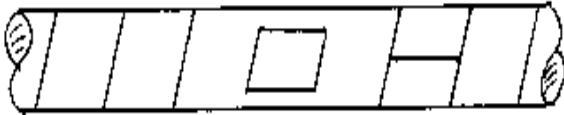
(HKG6)
Shiu Wing Steel Ltd.

F	The bar sizes of 10, 12, 16, 20, 25, 32, 40 and 50 mm were registered for new bar pattern HKG9	H.L.LI	16 Jan 2024
E	The bar sizes of 10, 12, 16, 20, 25, 32, 40 and 50 mm were registered for new bar pattern HKG8	Y.W.Yim	7 Jun. 2013
D	The bar size of 25 mm was registered for new bar pattern HKG7	Y.W.Yim	7 Jun. 2013
C	The bar sizes of 10, 12, 16, 20, 25, 32, 40 and 50 mm were registered for new bar pattern HKG6	Y.W.Yim	24 Jan. 2013
B	The bar sizes of 50 mm was registered for new bar pattern of HKG5	C.T.Kwok	29 Oct. 2007
A	New bar pattern, HKG4	K.W.YAM	19 Jan 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
HKG - HONG KONG
(Remark: Steel bars were registered to CS2 unless otherwise stated)

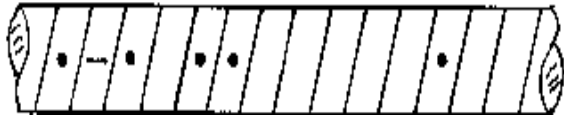
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/HKG/1



(HOL1)

Hoogovens Staal Lange Produkten



(HOL2)

Hoogovens Staal Lange Produkten

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 HOL - HOLLAND
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/HOL/1	



(IND1)

Pt. The Master Steel Mfg. Co.



(IND6)

PT. Putra Baja Deli



(IND2)

Pt. Jakarta Cakratunggal Steel Mills



(IND7)

PT. TUNGGAL JAYA STEEL



(IND3)

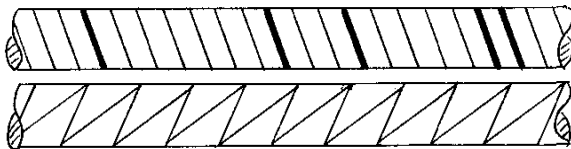
Pt. Budidharma Jakarta Steel Melting and Rolling Mills



(●) mark / marks may be found on the same / opposite side of the bar at random

(IND8)

PT. TUNGGAL JAYA STEEL



(IND4)

Pt. Pulogadung Steel Mfg. Co., Ltd.



(IND9)

PT DEXIN Steel Indonesia



(IND5)

Pt. Budidharma Jakarta

D	The bar sizes of 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of IND9	H.L. LI	20 Jan 2023
C	The bar sizes of 10 & 12 mm were registered for new bar pattern of IND8	W.C. Leung	17 Mar 2022
B	The bar sizes of 16 & 20 mm were registered for new bar pattern of IND7	W.C. Leung	17 Mar 2022
A	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of IND6	W.C. Leung	03 June 2021
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
IND - INDONESIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

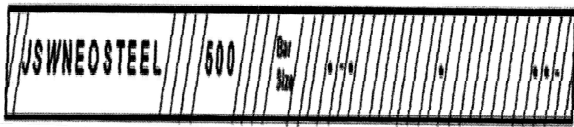
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

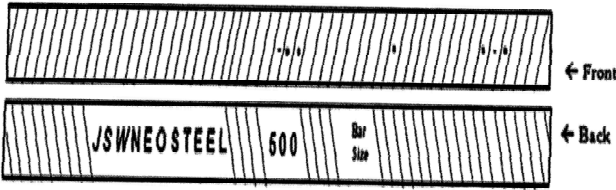
DATE July 2024

DRAWING NO.

PWL/IND/1



10mm, 12mm, 16mm, 25mm & 32mm



20mm, 32mm & 40mm
(INA1)
JSW Steel Limited

SIDE - 1

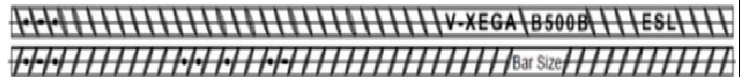


SIDE - 2



NOTE : (●) mark may be found on the "SIDE-1" before the JINDAL marking of the bar at random from 8mm to 25mm

(INA3)
Jindal Steel & Power Limited



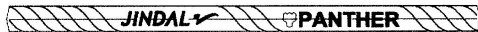
(INA4)
ESL Steel Ltd.

SIDE - 1

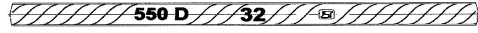


40mm

SIDE - 2



SIDE - 1



32mm

SIDE - 2

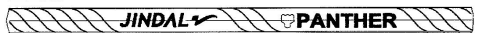


SIDE - 1

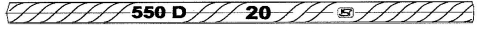


25mm

SIDE - 2

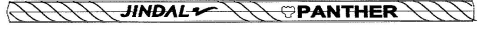


SIDE - 1

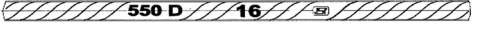


20mm

SIDE - 2

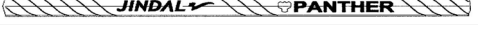


SIDE - 1

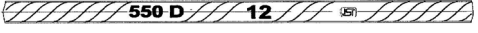


16mm

SIDE - 2

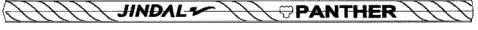


SIDE - 1

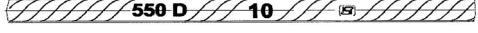


12mm

SIDE - 2



SIDE - 1

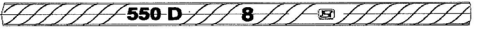


10mm

SIDE - 2

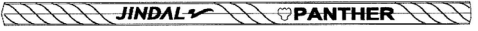


SIDE - 1



8mm

SIDE - 2



(INA2)

Jindal Steel & Power Limited

E	The bar sizes of 8, 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of INA4	H.L. LI	19 Sep 2023
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of INA3	W.C. Leung	17 Aug 2021
C	The bar sizes of 32 mm was added to the bar pattern of INA1	W.C. Leung	19 Jul 2019
B	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of INA2	W.C. Leung	12 June 2018
A	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of INA1	W.C. Leung	30 Aug 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
INA - INDIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/INA/1



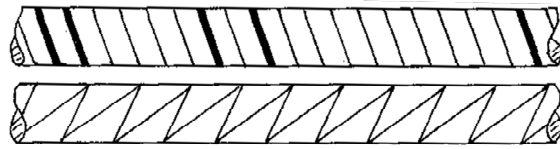
(IT1)

Feralpi Siderurgica SPA (Holding Company)



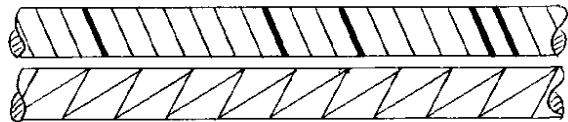
(IT2)

Officine e Fonderie Galtarossa



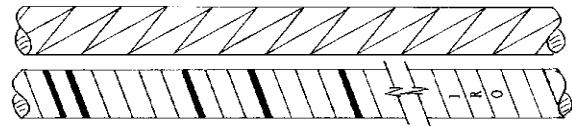
(IT3)

Ferriera Valsabbia SPA



(IT4)

Alfa Acciai SPA



* "IRO" mark found with unfixed position along the bar

(IT5)

Industrie Riunite Odolesi IRO Spa

Rev.	Revision	Signature	Date
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BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 ITY - ITALY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

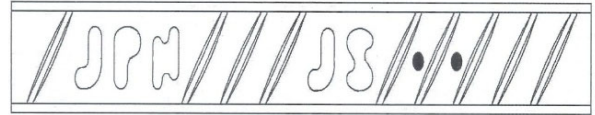
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Geotechnical Engineering Office
 Public Works Laboratories

SCALE	N.T.S.	DRAWING NO. PWL/ITY/1
DATE	July 2024	



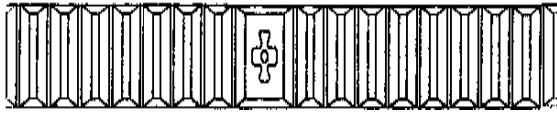
(JPN1)

Daiwa Steel Corporation



(JPN7)

Jonan Steel Corporation

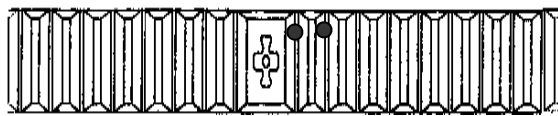


Kyoei Steel Ltd.



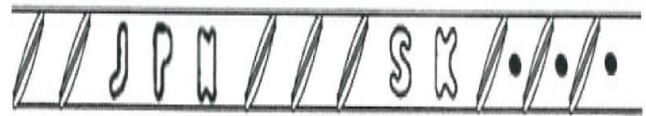
(JPN8)

Sanko Seiko Co., Ltd.



(JPN3)

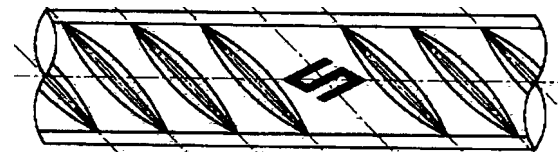
Kyoei Steel Ltd.



(JPN9)

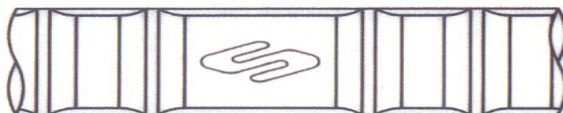
SANKO SEIKO CO., LTD.

(●) mark / marks may be found on the same / opposite side of the bar at random



(JPN4)

Shimizu Steel Company Ltd.



(JPN5)

Shimizu Steel Company Ltd.



(JPN6)

Chiyoda Steel Company Ltd.

I	The bar sizes of 10, 12, 16, 20 & 25 mm were registered for new bar pattern of JPN9	W.C. Leung	10 June 2022
H	The bar sizes of 10,12 & 16 mm were registered for new bar pattern of JPN8	Y.W. Yim	2 Aug 2010
G	The bar sizes of 10,12 & 16 mm were registered for new bar pattern of JPN7	C.T.Kwok	23 Jun 2009
F	The bar sizes of 10,12 & 16 mm were registered for new bar pattern of JPN6	C.T.Kwok	29 Dec 2008
E	The bar sizes of 10,16, 25 & 32 mm were registered for new bar pattern of JPN5	C.T.Kwok	10 Oct 2008
D	The bar sizes of 10 mm was registered for bar pattern of JPN2	C.T.Kwok	21 Jan 2008
C	Bar Pattern JPN4 has been updated	C.T.Kwok	09/07
B	New Bar Pattern JPN4	T.Y. CHEUNG	09/06
A	New Bar Pattern JPN3	Y.M. NG	04/04
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
JPN - JAPAN

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

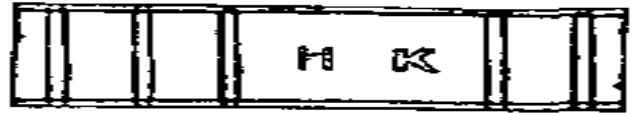
DRAWING NO.

PWL/JPN/1



(KOR1)

Dongkuk Steel Mill Co., Ltd. Incheon works



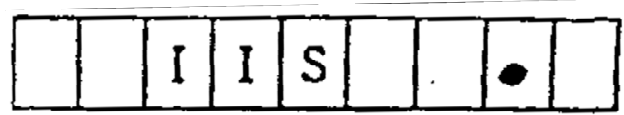
(KOR6)

Korea Iron & Steel Co., Ltd.



(KOR2)

Hanbo Iron and Steel Co., Ltd.



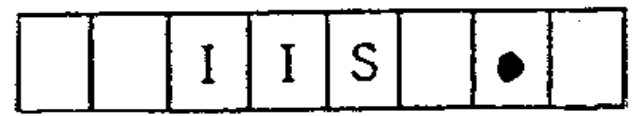
(KOR7)

INI Steel Company



(KOR3)

Kangwon Industries Ltd.



(KOR8)

INI Steel Company



(KOR4)

Dongkuk Steel Mill Co., Ltd. Incheon works



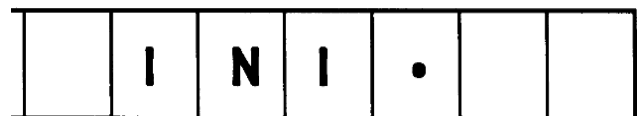
(KOR9)

INI Steel Company



(KOR5)

INI Steel Company



(KOR10)

INI Steel Company

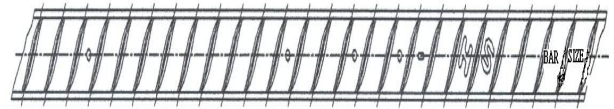
A	New Bar Pattern KOR10	K.W.YAM	11 Mar 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 KOR - KOREA
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories	
SCALE	N.T.S.
DATE	July 2024
DRAWING NO. PWL/KOR/1	



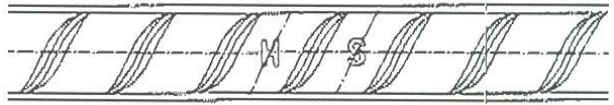
(KOR11)
INI Steel Company



(KOR18)
Hyundai Steel Company



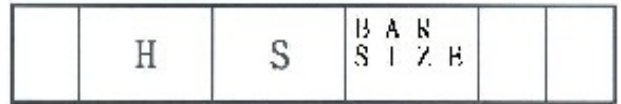
(KOR12)
INI Steel Company



(KOR19)
Hyundai Steel Company



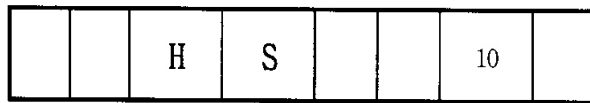
(KOR13)
INI Steel Company



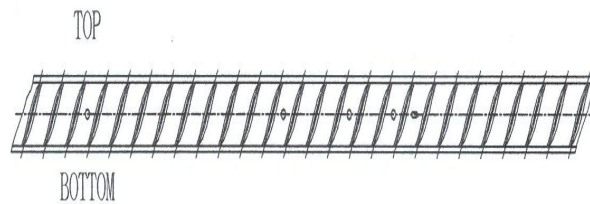
(KOR20)
Hyundai Steel Company



(KOR14)
INI Steel Company



(KOR15)
Hyundai Steel Company



(KOR16)
Hyundai Steel Company



(KOR17)
Hyundai Steel Company

M	The bar sizes of 10,20,25 & 32 mm were added to bar pattern of KOR19	C.T.Kwok	04 Dec. 2008
L	The bar size of 10 mm was registered for new bar pattern of KOR20	C.T.Kwok	16 June 2008
K	The bar size of 40 mm was registered for new bar pattern of KOR19	C.T.Kwok	31 Jan 2008
J	The bar size of 10 & 40 mm were registered for new bar pattern of KOR18	C.T.Kwok	16 Jan 2008
I	The bar size of 10, 25 & 40 mm were registered for new bar pattern of KOR17	C.T.Kwok	16 Jan 2008
H	The bar size of 25 mm was registered for new bar pattern of KOR16	C.T.Kwok	16 Jan 2008
G	The bar size of 32 mm was registered for new bar pattern of KOR15	C.T.Kwok	27 Nov 2007
F	The bar sizes of 12, 16, 20 & 25 mm were registered for bar pattern of KOR15	C.T.Kwok	07 Nov 2007
E	New Bar Pattern KOR15	T.Y. Cheung	19-九月 2006
D	New Bar Pattern KOR14	Ivy Cheung	15 Mar 2006
C	New Bar Pattern KOR13	K.W.YAM	3 Mar 2006
B	New Bar Pattern KOR12	K.W.YAM	9 Feb 2006
A	New Bar Pattern KOR11	K.W.YAM	9 Feb 2006
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
KOR - KOREA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

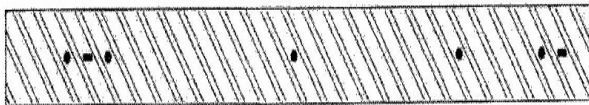
PWL/KOR/2



(KOR21)
Hyundai Steel Company



(KOR23)
Daehan Steel Co., Ltd.



(KOR24)
Daehan Steel Co., Ltd.

N	Coil of sizes 12mm was added to bar pattern of KOR24	W.C. Leung	13 June 2019
M	Coil / decoiled bar of sizes 12 mm was added to bar pattern of KOR24 to BS4449:2005	W.C. Leung	13 June 2019
L	Coil of sizes 10 & 16mm were registered for bar pattern of KOR24	W.C. Leung	15 Jan 2019
K	Coil / decoiled bar of sizes 10 mm was added to bar pattern of KOR24 to BS4449:2005	W.C. Leung	15 Jan 2019
J	Coil of sizes 10mm was registered for bar pattern of KOR23	W.C. Leung	14 Jan 2019
I	Coil / decoiled bar of sizes 16 mm was registered for new bar pattern KOR24 to BS4449:2005	W.C. Leung	07 Dec 2018
H	Coil / decoiled bar of sizes 12 mm was added to bar pattern of KOR23 to BS4449:2005	W.C. Leung	17 Aug 2018
G	Coil / decoiled bar of sizes 10 & 16 mm were registered for new bar pattern KOR23 to BS4449:2005	W.C. Leung	23 Apr 2018
F	The bar sizes of 10 mm was added to bar pattern of KOR21	C.T.Kwok	31 Mar 2009
E	The bar sizes of 32 mm was added to bar pattern of KOR21	C.T.Kwok	12 Feb 2009
D	The bar sizes of 12 & 16 mm were added to bar pattern of KOR19	C.T.Kwok	4 Feb 2009
C	The bar sizes of 20 mm was added to bar pattern of KOR21	C.T.Kwok	12 Jan 2009
B	The bar sizes of 25 mm was added to bar pattern of KOR21	C.T.Kwok	23 Dec 2008
A	The bar sizes of 12,16 & 40 mm were registered for new bar pattern of KOR21	C.T.Kwok	04 Dec 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
KOR - KOREA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

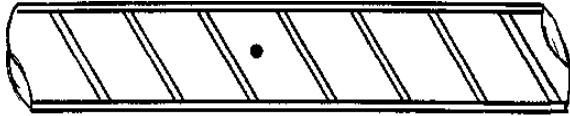
DATE July 2024

DRAWING NO.

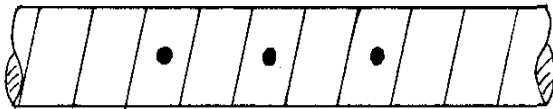
PWL/KOR/3



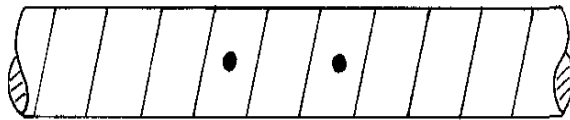
(LAT1)
Liepajas Metalurģs



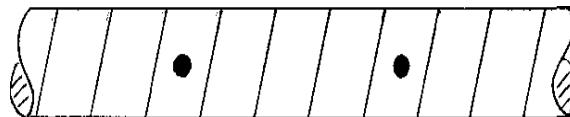
(LAT2)
Liepajas Metalurģs



(LAT3)
Liepajas Metalurģs



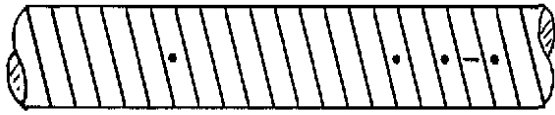
(LAT4)
Liepajas Metalurģs



(LAT5)
Liepajas Metalurģs

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
LAT - LATVIA
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/LAT/1	



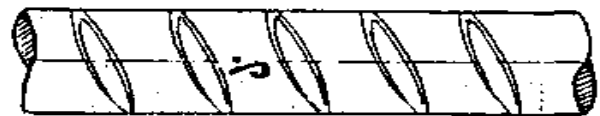
(LUX1)
Area S.A.

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
LUX - LUXEMBERG
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

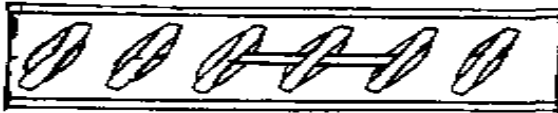
Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE		N.T.S.	DRAWING NO. PWL/LUX/1
DATE		July 2024	



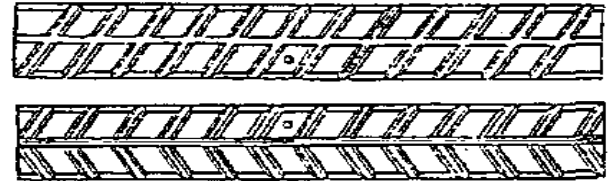
(MAL1)
Amsteel Mills SDN BHD



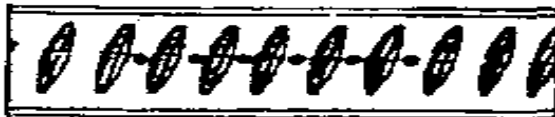
(MAL6)
Perwaja Steel SDN BHD



(MAL2)
Amsteel Mills SDN BHD



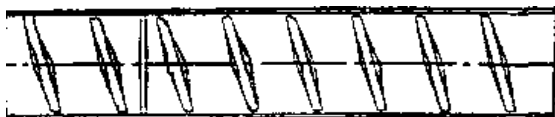
(MAL7)
Amsteel Mills SDN BHD



(MAL3)
Antara Steel Mills SDN BHD



(MAL8)
Malayawata Steel Berhad



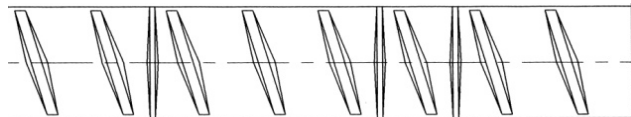
(MAL4)
Southern Steel Berhad



(MAL9)
Malayawata Steel Berhad



(MAL5)
Amsteel Mills SDN BHD



(MAL10)
Southern Steel Berhad

B	New Bar Pattern, MAL10	K.W.Yam	11 Apr 2005
A	New Bar Pattern, MAL9	K.W.Yam	17 Jan 2005
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
MAL - MALAYSIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
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SCALE N.T.S.
DATE July 2024

DRAWING NO.
PWL/MAL/1



(MAL11)

Ann Joo Steel Berhad (Prai Plant)



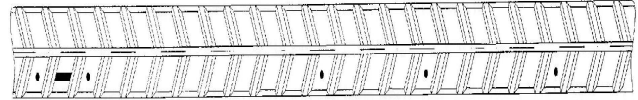
(MAL17)

Amsteel Mills SDN BHD (Klang)



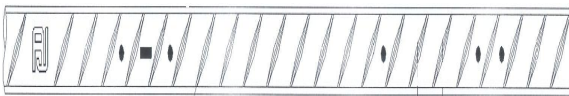
(MAL12)

Ann Joo Steel Berhad (Shah Alam Plant)



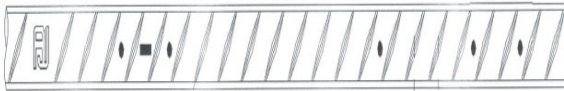
(MAL18)

Amsteel Mills SDN BHD (Banting Operation)



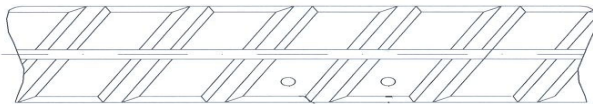
(MAL13)

Ann Joo Steel Berhad (Prai Plant)

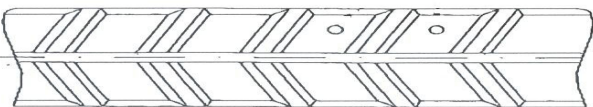


(MAL14)

Ann Joo Steel Berhad (Shah Alam Plant)



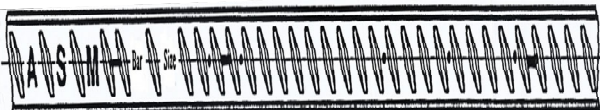
Top View



Side View

(MAL15)

Amsteel Mills SDN BHD



(MAL16)

Amsteel Mills SDN BHD (Klang)

I	The bar sizes of 12 mm was registered for bar pattern of MAL18	Y.W.Yim	18 Aug 2010
H	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of MAL17	C.T.Kwok	29 July 2009
G	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of MAL16	C.T.Kwok	29 July 2009
F	The bar sizes of 10,12 & 16 mm were registered for bar pattern of MAL15	C.T.Kwok	5 May 2009
E	The additional bar size of 40 mm was registered for bar pattern of MAL14	C.T.Kwok	10 June 2008
D	The bar sizes of 16, 20, 25, & 32 mm were registered for bar pattern of MAL14	C.T.Kwok	09 Apr. 2008
C	The bar sizes of 10,12,16, 20, & 25 mm were registered for bar pattern of MAL13	C.T.Kwok	09 Apr. 2008
B	The bar sizes of 16, 20, 25, 32 & 40 mm were registered for bar pattern of MAL12	C.T.Kwok	23 Oct. 2007
A	The bar sizes of 10, 12, 16 & 25 mm were registered for bar pattern of MAL11	C.T.Kwok	23 Oct. 2007
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
MAL - MALAYSIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

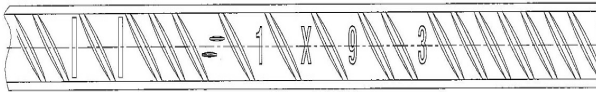
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

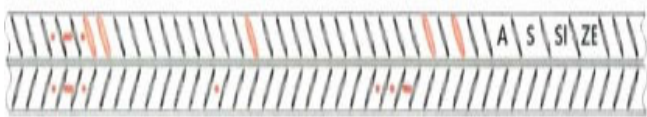
PWL/MAL/2



(MAL19)
Southern Steel Berhad



(MAL20)
Alliance Steel (M) Sdn. Bhd.



(MAL21)
Alliance Steel (M) Sdn. Bhd.

C	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of MAL21	W.C. Leung	05 Aug 2022
B	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of MAL20	W.C. Leung	21 Feb 2019
A	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of MAL19	W.C. Leung	21 Feb 2019
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
MAL - MALAYSIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
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SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/MAL/3



(MDA1)

Moldova Metulurgical Plant

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/MDA/1	

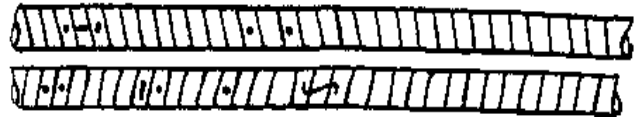
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
MDA - MOLDOVA

(Remark: Steel bars were registered to CS2 unless otherwise stated)



(MEX1)

Aceros D.M.S.A.De C.V.



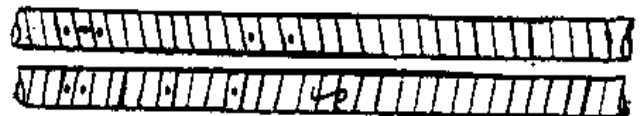
(MEX6)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX2)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



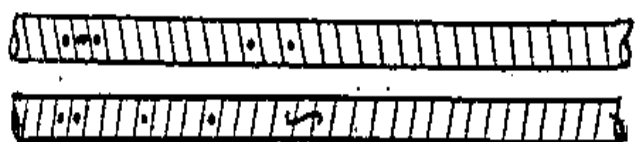
(MEX7)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX3)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX8)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX4)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX9)

Siderurgica Lazaro Cardenas-Las Truchas S.A.



(MEX5)

Siderurgica Lazaro Cardenas-Las Truchas S.A.

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 MEX - MEXICO
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO. PWL/MEX/1	
DATE	July 2024		



(NOR1)

Fundia Bygg A.S.Mo I Rana



(NOR2)

Fundia Bygg A.S.Mo I Rana



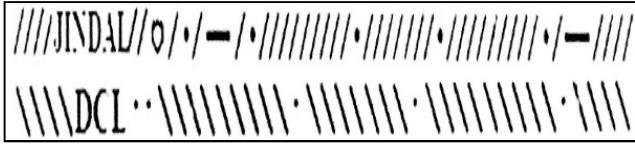
(NOR3)

Fundia Bygg A.S.Mo I Rana

Rev.	Revision	Signature	Date
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BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 NOR - NORWAY
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories		DRAWING NO. PWL/NOR/1
SCALE	N.T.S.	
DATE	July 2024	



(OMN1)

Jindal Shaded Iron and Steel LLC

SIDE ONE (see note)	
SIDE TWO	

Note: (●) mark may be found on the "SIDE ONE" before the JINDAL marking of the bar at random from 8mm to 20mm.

(OMN2)

Jindal Shaded Iron and Steel LLC



(OMN3)

Moon Iron & Steel Co. S.A.O.C



(OMN4)

Sohar Steel L.L.C.

(●●●),(●●) ,(●) mark /marks may be found on the same side of the bar at random from Φ8-16mm

D	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of OMN4	H.L.L.I	30 Nov 2023
C	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of OMN3	W.C. Leung	30 Sep 2021
B	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of OMN2	W.C. Leung	06 Nov 2020
A	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of OMN1	W.C. Leung	06 Feb 2018
Rev.	Revision	Signature	Date

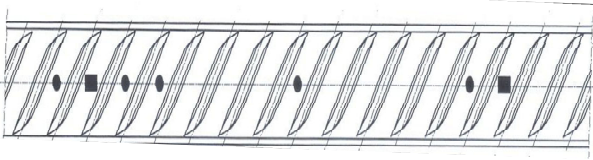
BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 OMN - OMAN
 (Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE	N.T.S.	DRAWING NO. PWL/OMN/1
DATE	July 2024	



(POL1)
Huta Obstrowiec



(POL2)
CMC Zawiercie S.A.

	The bar sizes of 10,12,25 & 32 mm		19 Nov.
A	were registered for bar pattern of POL2	C.T.Kwok	2009
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
POL - POLAND

(Remark: Steel bars were registered to CS2 unless otherwise stated)

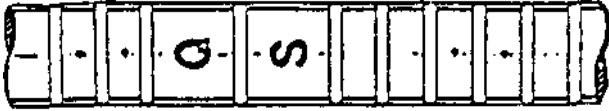
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

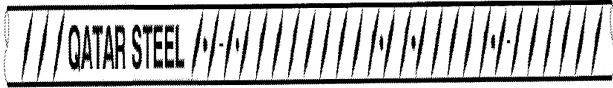
DATE July 2024

DRAWING NO.

PWL/POL/1



(QTR1)
Qatar Steel Co. Ltd.



(QTR2)
Qatar Steel Company



(*) mark may be found on the opposite side of the bar at random

(QTR3)
Qatar Steel Company (Q.P.S.C)

B	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of QTR3	W.C. Leung	28 Sep 2018
A	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of QTR2	W.C. Leung	14 Sep 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
QTR - QATAR
(Remark: Steel bars were registered to CS2 unless otherwise stated)

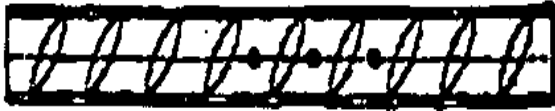
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE	N.T.S.	DRAWING NO. PWL/QTR/1
DATE	July 2024	



(ROB1)

**Republican Unitary Enterprise
《Byelorussian SteelWorks》**



(ROB2)

**Republican Unitary Enterprise
《Byelorussian SteelWorks》**



(ROB3)

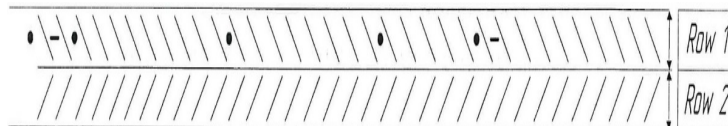
**Republican Unitary Enterprise
《Byelorussian SteelWorks》**

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
ROB - REPUBLIC OF BELARUS
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/ROB/1	



(RUS3)
JSC Severstal



(RUS7)
Abinsk Electric Steel Works, Ltd.



(RUS4)
JSC Amurmetal



Small Circle designation of the line in production by slitting (in two rolling lines) may be found on the opposite side of the bar at random

(RUS8)
AO Steel Works Balakovo



(RUS5)
JSC "EVRAZ Consolidated West Siberian Metallurgical Plant"



(RUS6)
JSC "EVRAZ Consolidated West Siberian Metallurgical Plant"

F	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of RUS8	W.C. Leung	09 Aug 2021
E	The bar size of 40 mm was added to the bar pattern of RUS7	W.C. Leung	03 July 2020
D	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of RUS7	W.C. Leung	19 Feb 2020
C	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50 mm were registered for new bar pattern of RUS6	S.W. Tam	13 Jan 2015
B	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50 mm were registered for new bar pattern of RUS5	W.C. Lee	8 July 2014
A	Bar pattern RUS1 and RUS2 have been withdrawn by customer	W.C. Lee	8 July 2014
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
RUS - RUSSIA

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

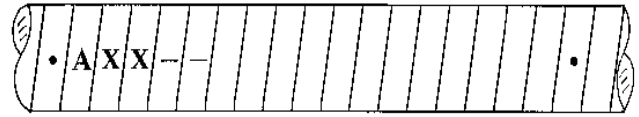
DATE July 2024

DRAWING NO.

PWL/RUS/1



(SAF1)
Scaw Metals



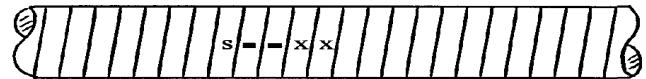
(SAF6)
Cape Gate(PTY) Limited



(SAF2)
ISCOR Ltd. Newcastle Work



Ribs must be slanted in direction shown



Ribs may be slanted in left or right

(SAF7)
Scaw Metals



(SAF3)
ISCOR Ltd. Newcastle Work



(SAF8)
Cape Town Iron and Steel Works (Pty) Limited



(SAF4)
Cape Gate(PTY) Limited

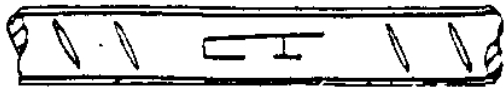


(SAF5)
Scaw Metals

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SAF - SOUTH AFRICA

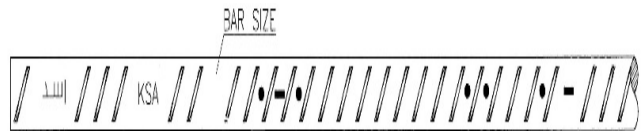
(Remark: Steel bars were registered to CS2 unless otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/SAF/1	



(SDA1)

Saudi Iron and Steel Company (HADEED)



(●) mark /marks may be found on the opposite side of the bar at random

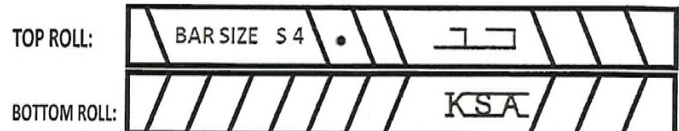
(SDA6)

Al-Ittefaq Steel Products Company



(SDA2)

Saudi Iron and Steel Company (HADEED)



(●) mark /marks may be found on the bottom roll of the bar at random

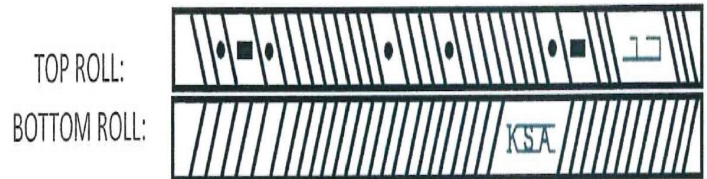
(SDA7)

Saudi Iron and Steel Company (HADEED)



(SDA3)

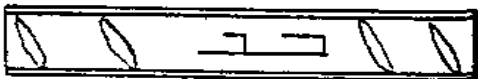
Saudi Iron and Steel Company (HADEED)



(SDA8)

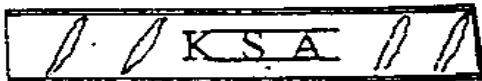
(●) mark /marks may be found on the bottom roll of the bar at random

Saudi Iron and Steel Company (HADEED)



(SDA4)

Saudi Iron and Steel Company (HADEED)



(SDA5)

Saudi Iron and Steel Company (HADEED)



C	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of SDA8	W.C. Leung	03 May 2022
B	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of SDA7	W.C. Leung	30 June 2021
A	The bar sizes of 10, 12, 16, 20, 25, 32, 40 & 50 mm were registered for new bar pattern of SDA6	W.C. Leung	18 Jan 2018
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SDA - SAUDI ARABIA
(Remark: Steel bars were registered to CS2
unless otherwise stated)

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Geotechnical Engineering Office
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SCALE	N.T.S.	DRAWING NO.
DATE	July 2024	PWL/SDA/1

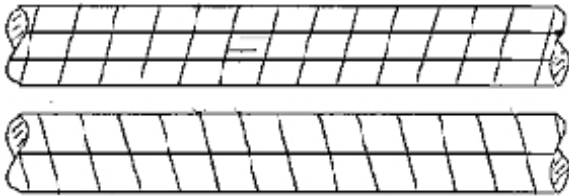


(SGP1)
Natsteel Ltd.

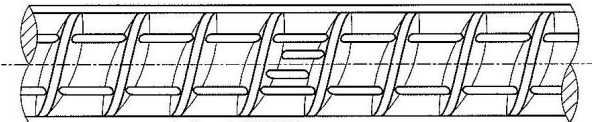


Distance between two (●) marks approximate
26~92 ribs and 450~1200mm c/c

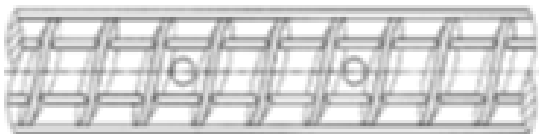
(SGP2)
Natsteel Ltd.



(SGP3)
Natsteel Ltd.



(SGP4)
NatSteel Holdings Pte. Ltd.



(SGP5)
NatSteel Holdings Pte. Ltd.

	The bar sizes of 10,12,16 & 20mm		06 Dec
B	were registered for bar pattern of SGP5	Y.W.Yim	2010
	The bar sizes of 25, 32. 40 & 50mm		06 Dec
A	were registered for bar pattern of SGP4	Y.W.Yim	2010
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SGP - SINGAPORE

(Remark: Steel bars were registered to CS2 unless
otherwise stated)

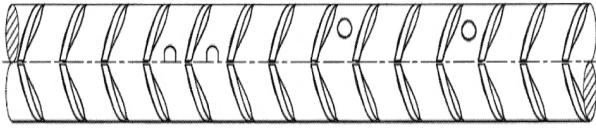
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

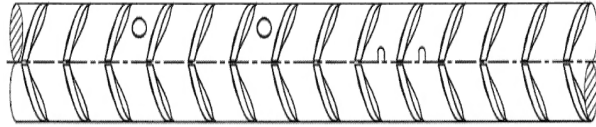
DATE July 2024

DRAWING NO.

PWL/SGP/1



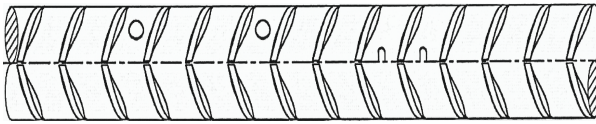
10mm & 16mm



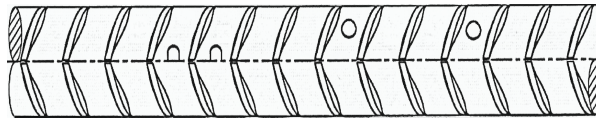
12mm

(SGP6)

NatSteel Holdings Pte. Ltd.



10mm & 16mm



12mm

(SGP7)

NatSteel Holdings Pte. Ltd.



(SGP8)

NatSteel Holdings Pte. Ltd.

E	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of SGP8	W.C. Leung	16 Sep 2020
D	Coil of sizes 10, 12 & 16mm were registered for bar pattern of SGP7	W.C. Leung	26 Aug 2020
C	Coil of sizes 10, 12 & 16mm were registered for bar pattern of SGP6	W.C. Leung	26 Aug 2020
B	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for new bar pattern SGP7 to BS4449:2005	W.C. Leung	05 Apr 2017
A	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for new bar pattern SGP6 to BS4449:2005	W.C. Leung	14 Feb 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SGP - SINGAPORE

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

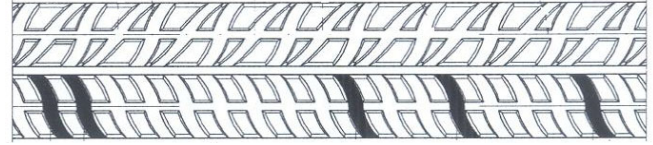
DRAWING NO.

PWL/SGP/2



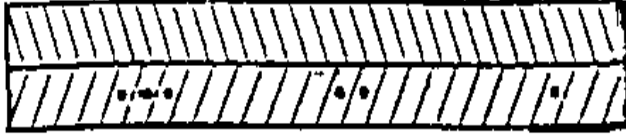
(SPN1)

Compania Espanola De Aceros Laminados, S.L.



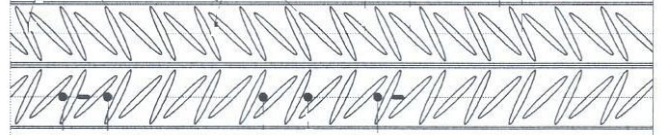
(SPN7)

Celsa Atlantic S.A.U.



(SPN2)

Nervacero S.A.



(SPN8)

Celsa Atlantic S.A.U.



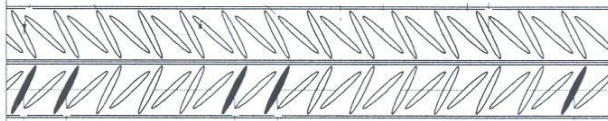
(SPN3)

Siderrurgica Sevillana S.A.



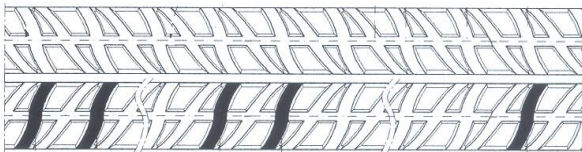
(SPN9)

Nervacero S.A.



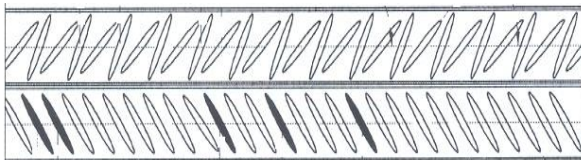
(SPN4)

Celsa Atlantic S.A.U.



(SPN5)

Celsa Atlantic S.A.U.



(SPN6)

Celsa Atlantic S.A.U.

G	The bar sizes of 20,25 & 32 mm were added to bar pattern of SPN2	C.T.Kwok	7 Sep. 2009
F	The bar sizes of 8,10,12,14,16,20,25&32 mm were registered for bar pattern of SPN9	C.T.Kwok	7 Sep. 2009
E	The bar sizes of 20 & 32 mm were registered for bar pattern of SPN8	C.T.Kwok	11 Aug. 2009
D	The bar sizes of 8,12 & 16 mm were registered for bar pattern of SPN7	C.T.Kwok	11 Aug. 2009
C	The bar sizes of 8,12 16 & 32 mm were registered for bar pattern of SPN6	C.T.Kwok	11 Aug. 2009
B	The bar sizes of 8,10,12 & 16 mm were registered for bar pattern of SPN5	C.T.Kwok	11 Aug. 2009
A	The bar sizes of 6,8,10,12,16,20,25& 32mm were registered for bar pattern of SPN4	C.T.Kwok	11 Aug. 2009
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SPN - SPAIN

(Remark: Steel bars were registered to CS2 unless otherwise stated)

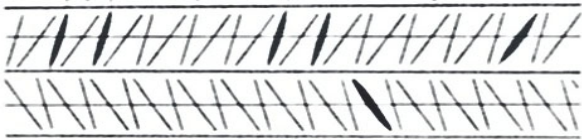
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

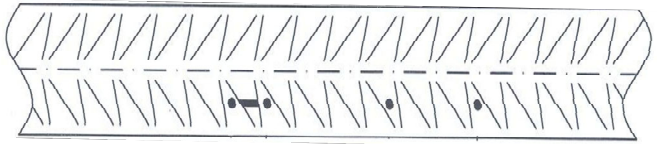
DRAWING NO.

DATE July 2024

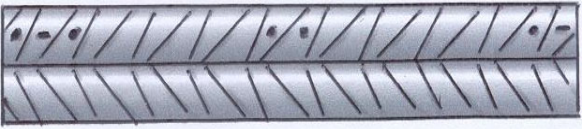
PWL/SPN/1



(SPN10)
Nervacero S.A.



(SPN15)
Compania Espanola de Laminacion, S.L.-CELSA



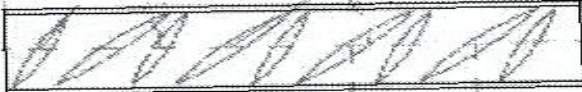
(SPN11)
Nervacero S.A.



(SPN16)
Compania Espanola de Laminacion, S.L.-CELSA

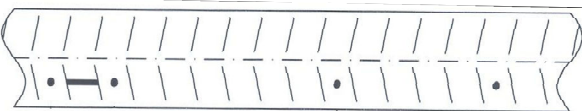


Side 1

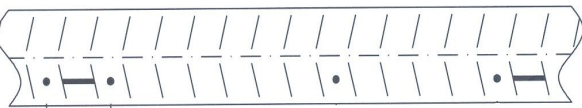


Side 2

(SPN12)
Nervacero S.A.



(SPN13)
Compania Espanola de Laminacion,
S.L.-CELSA



(SPN14)
Compania Espanola de Laminacion,
S.L.-CELSA

G	The bar sizes of 8,10,12,16,20,25 & 32 mm were registered for bar pattern of SPN16	C.T.Kwok	10 Dec. 2009
F	The bar sizes of 8,16,20, 25 & 32 mm were registered for bar pattern of SPN15	C.T.Kwok	10 Dec. 2009
E	The bar sizes of 25 & 32 mm were registered for bar pattern of SPN14	C.T.Kwok	10 Dec. 2009
D	The bar sizes of 8,10,12,16,20 & 25 mm were registered for bar pattern of SPN13	C.T.Kwok	10 Dec. 2009
C	The bar sizes of 8,10,12,16,20,25 & 32 mm were registered for bar pattern of SPN12	C.T.Kwok	7 Sep. 2009
B	The bar sizes of 8,10,12,16 & 25 mm were registered for bar pattern of SPN11	C.T.Kwok	7 Sep. 2009
A	The bar sizes of 8,10,12,16 & 20 mm were registered for bar pattern of SPN10	C.T.Kwok	7 Sep. 2009
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SPN - SPAIN

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

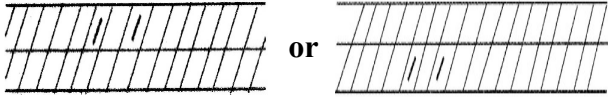
DATE July 2024

DRAWING NO.

PWL/SPN/2



Side A



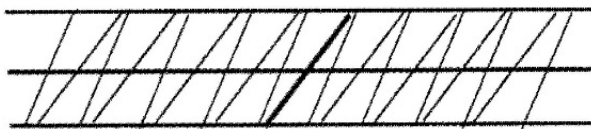
Side B

(SPN17)

Nervacero S.A.



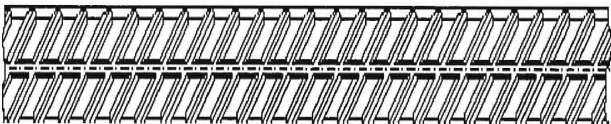
Side A



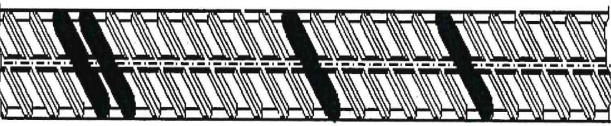
Side B

(SPN18)

Nervacero S.A.



Side A



Side B

(SPN19)

Compañía Española de Laminación, S.L.
(CELSA Barcelona)

E	Coil of sizes 8, 10, 12, 16 & 20mm were registered for bar pattern of SPN19	W.C. Leung	03 July 2020
D	Coil of sizes 10 & 12mm were registered for bar pattern of SPN18	W.C. Leung	15 March 2019
C	Coil of sizes 10, 12 & 16mm were registered for bar pattern of SPN17	W.C. Leung	15 March 2019
B	Coil / decoiled bar of sizes 10 & 12 mm were registered for new bar pattern SPN18 to BS4449:2005	W.C. Leung	19 Oct 2017
A	Coil / decoiled bar of sizes 10, 12 & 16 mm were registered for new bar pattern SPN17 to BS4449:2005	W.C. Leung	19 Oct 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SPN - SPAIN

(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/SPN/3



(SWN1)

Fundia steel AB, Smedjebacken

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/SWN/1	

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
SWN - SWEDEN
(Remark: Steel bars were registered to CS2 unless
otherwise stated)



(TAW1)

Hai Kwang Enterprise Corporation



(TAW6)

Han Tai Steel & Iron Works Co., Ltd.



(TAW2)

Han Tai Steel & Iron Works Co., Ltd.



(TAW7)

Wei Chih Steel Industrial Co., Ltd.



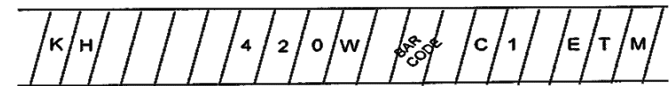
(TAW8)

Feng Hsin Steel Co., Ltd.

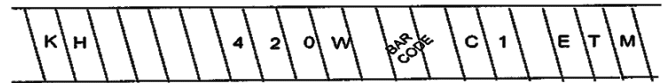


(TAW3)

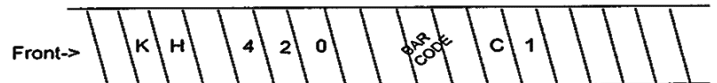
Han Tai Steel & Iron Works Co., Ltd.



10mm - BAR CODE = 3 12mm - BAR CODE = 4



16mm - BAR CODE = 5



20mm - BAR CODE = 6 25mm - BAR CODE = 8

(TAW9)

E-Top Metal Co., Ltd.



(TAW4)

Han Tai Steel & Iron Works Co., Ltd.



(TAW5)

Han Tai Steel & Iron Works Co., Ltd.

E	The English name of the manufacture of bar pattern TAW8 has been changed from "Feng Hsin Iron & Steel Co., Ltd." to "Feng Hsin Steel Co., Ltd."	W.C. Leung	5 June 2017
D	The bar sizes of 10, 12, 16, 20 & 25 mm were registered for new bar pattern of TAW9	C.T.Kwok	7 Apr. 2009
C	The bar size of 50 mm was added to bar pattern of TAW8	C.T.Kwok	13 Nov 2008
B	The bar sizes of 10,12,16, 20, 25, 32 &40mm were registered for new bar pattern of TAW8	C.T.Kwok	20 Oct. 2008
A	The bar sizes of 10,12,16, 20, 25, 32 &40mm were registered for bar pattern of TAW7	C.T.Kwok	21 Dec 2007
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 TAW - TAIWAN
 (Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
 Geotechnical Engineering Office
 Public Works Laboratories

SCALE	N.T.S.	DRAWING NO. PWL/TAW/1
DATE	July 2024	



(TAW 10)
E-Sheng Steel Co., Ltd.



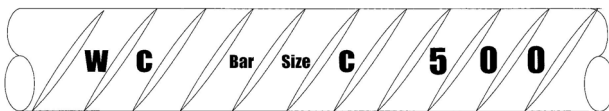
(TAW 11)
Hai Kwang Enterprise Corporation



(TAW 12)
Shen Yu Steel Co., Ltd.



(TAW 13)
Power Steel Co., Ltd.



(TAW 14)
Wei Chih Steel Industrial Co., Ltd.

H	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of TAW14	W.C. Leung	26 July 2018
G	The bar size of 10 & 12 mm were added to the bar pattern of TAW13	W.C. Leung	07 Feb 2018
F	The bar sizes of 16, 20, 25, 32 & 40 mm were registered for bar pattern of TAW13	S.W. TAM	30 Aug 2016
E	The bar size of 40 mm has been added to bar pattern of TAW12	Y.W. YIM	4 Jan 2012
D	The bar sizes of 10,12,16, 20,25 & 32 mm were registered for bar pattern of TAW12	Y.W. YIM	26 Aug 2010
C	The bar sizes of 10,12,16, 20,25, 32 & 40 mm were registered for bar pattern of TAW11	C.T.Kwok	6 Jan. 2010
B	The bar sizes of 10,12,16, 20 & 25 mm were registered for bar pattern of TAW10	C.T.Kwok	26-六月 2009
A	Additional bar size of 50 mm was registered for bar pattern of TAW7	C.T.Kwok	22-六月 2009
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TAW - TAIWAN

(Remark: Steel bars were registered to CS2 unless otherwise stated)

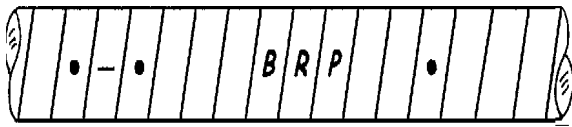
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

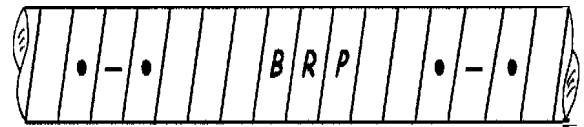
DRAWING NO.

PWL/TAW/2



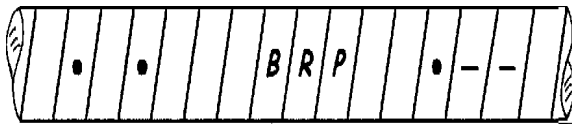
(THD1)

Bruapa Steel Industries Co., Ltd.



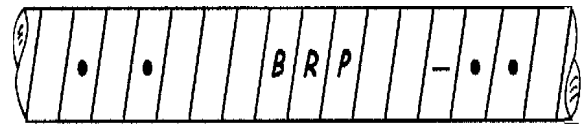
(THD6)

Bruapa Steel Industries Co., Ltd.



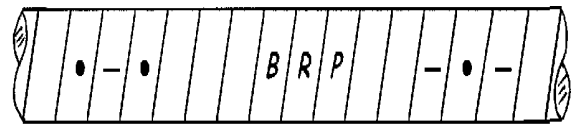
(THD2)

Bruapa Steel Industries Co., Ltd.



(THD7)

Bruapa Steel Industries Co., Ltd.



(THD3)

Bruapa Steel Industries Co., Ltd.



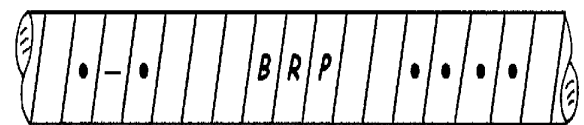
(THD8)

Bruapa Steel Industries Co., Ltd.



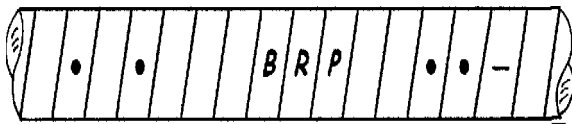
(THD4)

Bruapa Steel Industries Co., Ltd.



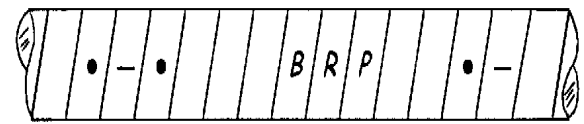
(THD9)

Bruapa Steel Industries Co., Ltd.



(THD5)

Bruapa Steel Industries Co., Ltd.



(THD10)

Bruapa Steel Industries Co., Ltd.

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 THD - THAILAND
 (Remark: Steel bars were registered to CS2 unless
 otherwise stated)

Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE		N.T.S.	DRAWING NO. PWL/THD/1
DATE		July 2024	



(THD11)

The Siam Construction Steel Co., Ltd.



(THD12)

The Siam Construction Steel Co., Ltd.

B	The bar size of 40mm was registered for bar pattern THD12	Y.W. YIM	25 Nov 2010
A	The bar sizes of 10,12,16, 20,25 & 32mm were registered for bar pattern of THD12	Y.W. YIM	2 Jul 2010
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
THD - THAILAND

(Remark: Steel bars were registered to CS2 unless otherwise stated)

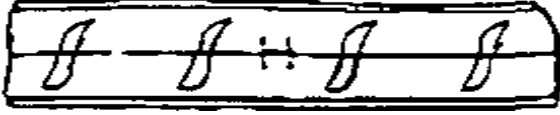
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

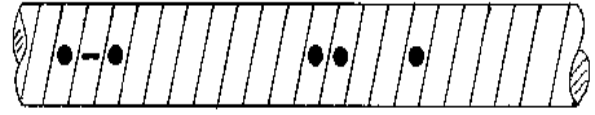
DRAWING NO.

PWL/THD/2



(TUK1)

Habas Sinai Ve Tibbi Gazlar Istihsal
Endustrisi A.S.



(●) mark /marks may be found on the
opposite side of the bar at random

(TUK6)

Izmir Demir Celik Sanayi A.S.



(TUK2)

ICDAS Celik Enerji Tersane Ve Ulasim
Sanayi A.S.



(TUK7)

Colakoglu Metalurji A.S.



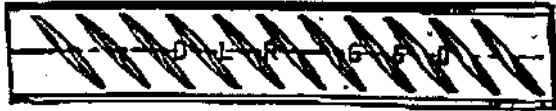
(TUK3)

ICDAS Celik Enerji Tersane Ve Ulasim
Sanayi A.S.



(TUK8)

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.



(TUK4)

Diler Demir Celik Endustri Ve Tic A.S.



(TUK9)

Ekinciler Demir Ve Celik Sanayi A.S.



(TUK5)

Diler Dis Ticaret A.S.



(TUK10)

Demirsan Heddecilik San Ve Tic. A.S.

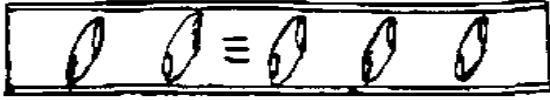
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

(Remark: Steel bars were registered to CS2 unless
otherwise stated)

Rev.	Revision	Signature	Date
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SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/TUK/1	



(TUK11)

Ege Metal Demir Celik Sanayii Ticaret A.S.



(TUK16)

Colakohlu Metalurji A.S.



(TUK12)

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.



(TUK17)

Diler Demir Celik Endustri Ve Tic A.S.



(TUK13)

Diler Demir Celik Endustri Ve Tic A.S.



(TUK18)

ICDAS Celik Enerji Tersane Ve Ulasim Sanayi A.S.



(TUK14)

Ekinciler Iron and Steel Industry Inc.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK19)

Yazici Iron & Steel Co., Inc.

(Yazici Demir Celik Sanayi Ve Turizm Ticaret A.S.)



(TUK15)

Colakoglu Metalurji A.S.



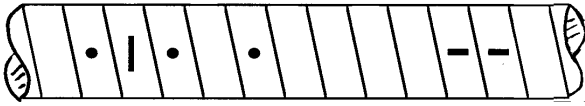
(TUK20)

Yazici Iron & Steel Co., Inc.

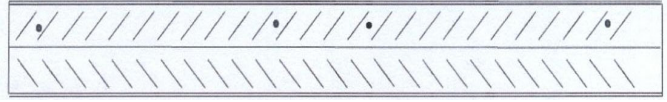
(Yazici Demir Celik sanayi Ve Turizm Ticaret A.S.)

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY
(Remark: Steel bars were registered to CS2 unless otherwise stated)

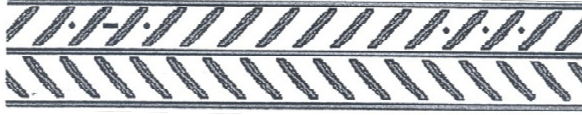
Rev.	Revision	Signature	Date
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories			
SCALE	N.T.S.	DRAWING NO.	
DATE	July 2024	PWL/TUK/2	



(TUK21)
CEBITAS Celik Endustrisi A.S.



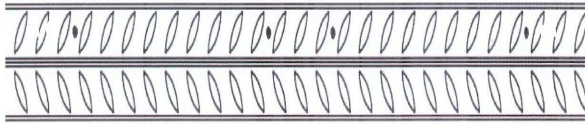
(TUK26)
Kaptan Demir Celik Endustrisi Ve Ticaret A.S.



(TUK22)
Diler Demir Celik Endustri Ve Tic A.S.

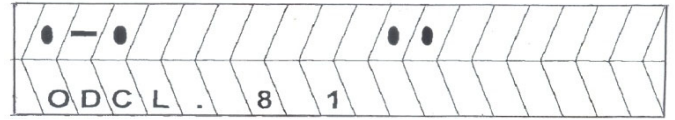


(TUK27)
Habas Sinai Ve Tibbi Gazlar Istihsal Endustrisi A.S.

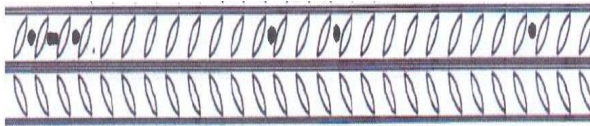


(●) mark /marks may be found on the opposite side of the bar at random

(TUK23)
Kaptan Demir Celik Endustrisi Ve Ticaret A.S.

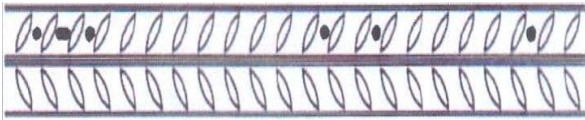


(TUK28)
Habas Sinai Ve Tibbi Gazlar Istihsal Endustrisi A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK24)
Kaptan Demir Celik Endustrisi Ve Ticaret A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK25)
Kaptan Demir Celik Endustrisi Ve Ticaret A.S.

G	The bar sizes of 8 & 40 mm were registered for bar pattern of TUK28	C.T.Kwok	8 Mar. 2010
F	The bar sizes of 8,10 &12 mm were registered for bar pattern of TUK27	C.T.Kwok	8 Mar. 2010
E	The bar size of 40 mm was registered for bar pattern of TUK26	C.T.Kwok	5 Feb. 2010
D	The bar sizes of 8,10 mm were registered for bar pattern of TUK25	C.T.Kwok	9 Sep 2009
C	The bar sizes of 12,16,20,25&32 mm were registered for bar pattern of TUK24	C.T.Kwok	9 Sep 2009
B	The bar sizes of 50 mm was registered for bar pattern of TUK23	C.T.Kwok	9 Sep 2009
A	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK22	C.T.Kwok	11 Jan 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

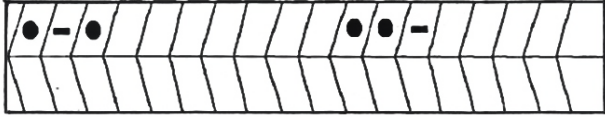
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

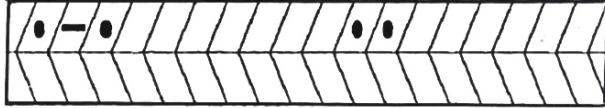
DRAWING NO.

PWL/TUK/3



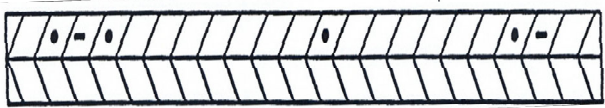
(TUK29)

**Habas Sinai Ve Tibbi Gazlar Istihsal
Endustrisi A.S.**



(TUK30)

**Habas Sinai Ve Tibbi Gazlar Istihsal
Endustrisi A.S.**



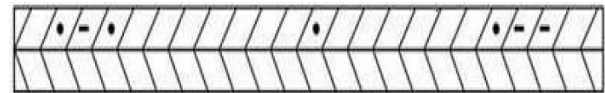
(TUK31)

**ICDAS Celik Enerji Tersane Ve Ulasim
Sanayi A.S.**



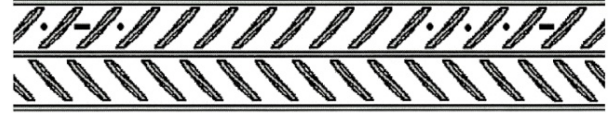
(TUK32)

Kroman Celik Sanayii A.S.



(TUK33)

**ICDAS Celik Enerji Tersane Ve Ulasim
Sanayi A.S.**



The bar pattern of TUK34 may be on the top, middle, or bottom of one side of the rebar surface and the alignment of the bar pattern is consistent to longitudinal rib of the rebar (●) mark /marks may be found on the opposite side of the bar at random

(TUK34)

Diler Iron and Steel Co., Inc.

M	The bar size of 50 mm was added to bar pattern of TUK34	W.C. Leung	01 Apr 2021
L	Coil of sizes 10mm was registered to bar pattern of TUK33	W.C. Leung	23 Nov 2020
K	Coil / decoiled bar of sizes 6, 8, 10, 12 & 16 mm were registered for bar pattern TUK33 to BS4449:2005	W.C. Leung	17 Jul 2017
J	The bar sizes of 10,12,16,25 & 40 mm were added to bar pattern of TUK34	W.C. Leung	02 Mar 2017
I	The bar size of 50 mm was added to bar pattern of TUK33	W.C. Leung	15 Feb 2017
H	The bar sizes of 8, 20 & 32 mm were registered for bar pattern of TUK34	Y.W. YIM	9 Aug. 2013
G	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK33	Y.W. YIM	7 Aug. 2013
F	The bar size of 50 mm was added to bar pattern of TUK31	Y.W. YIM	1 Sep. 2011
E	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK32	Y.W. YIM	7 Jun. 2011
D	The bar sizes of 10,12, 20, 25 & 32 mm were added to bar pattern of TUK31	Y.W. YIM	18 Mar 2011
C	The bar sizes of 8,16 & 40 mm were registered for bar pattern of TUK31	Y.W. YIM	4 Mar. 2011
B	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK30	C.T.Kwok	8 Mar. 2010
A	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK29	C.T.Kwok	8 Mar. 2010
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

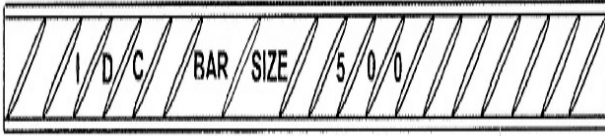
**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories**

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/TUK/4



(●) mark /marks may be found on the opposite side of the bar at random

(TUK35)

Izmir Demir Celik Sanayi A.S.



(TUK39)

Ekinciler Demir Ve Celik Sanayi A.S.



slit number (1/2/3) mark/marks may be found on the opposite side of the bar at random

(TUK40)

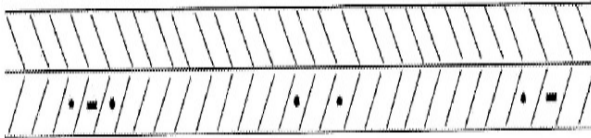
Bastug Metalurji Sanayi A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK36)

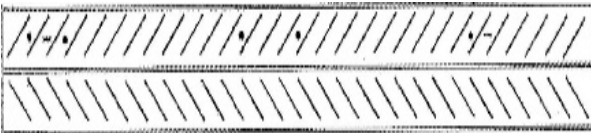
Akdemir Celik Sanayi Ve Ticaret A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK37)

Kroman Celik Sanayii A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK38)

Kaptan Demir Celik Endustrisi Ve Ticaret A.S.

G	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK40	W.C. Leung	10 Dec 2019
F	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK39	W.C. Leung	25 June 2019
E	Coil of sizes 10, 12, 16 & 20 mm were registered for bar pattern of TUK37	W.C. Leung	13 Feb 2019
D	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK38	W.C. Leung	28 Dec 2017
C	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK37	W.C. Leung	02 Nov 2017
B	The bar sizes of 8,10 mm were registered for bar pattern of TUK36	W.C. Leung	12 Oct 2017
A	The bar sizes of 8,10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK35	W.C. Leung	25 Sep 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/TUK/5



(●) mark /marks may be found on the same/opposite side of the bar at random

(TUK41)

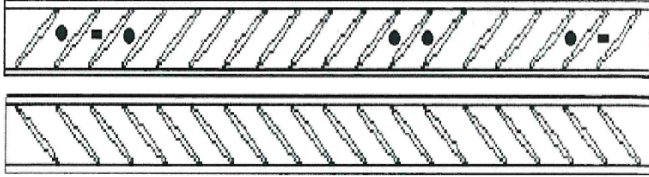
**Habas Sinai Ve Tibbi Gazlar Istihsal
Endustrisi A.S.**



(●) mark /marks may be found on the opposite side of the bar at random

(TUK42)

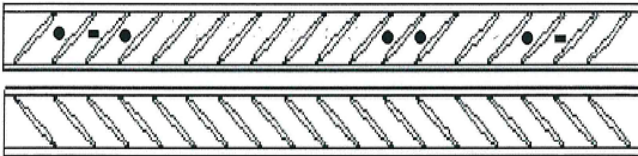
Yazici Iron & Steel Co., Inc.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK43)

Akdemir Celik Sanayi Ve Ticaret A.S.



(●) mark /marks may be found on the opposite side of the bar at random

(TUK44)

Izmir Demir Celik Sanayi A.S.

D	The bar sizes of 12,16,20,25,32 & 40 mm were registered for bar pattern of TUK44	W.C. Leung	10 June 2021
C	The bar sizes of 8 & 10 mm were registered for bar pattern of TUK43	W.C. Leung	08 June 2021
B	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK42	W.C. Leung	09 Feb 2021
A	The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for bar pattern of TUK41	W.C. Leung	05 Mar 2020
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

(Remark: Steel bars were registered to CS2 unless otherwise stated)

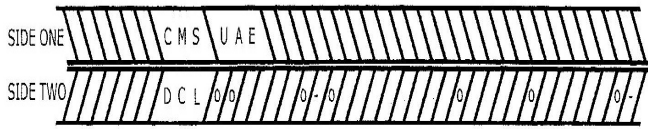
**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories**

SCALE N.T.S.

DATE July 2024

DRAWING NO.

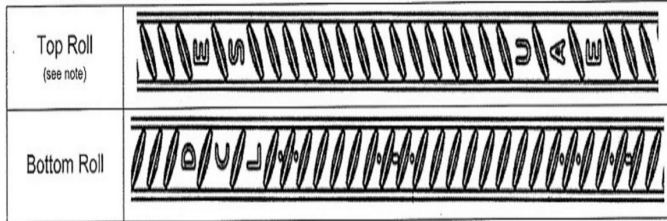
PWL/TUK/6



THE MARK/MARKS MAY BE FOUND ON "SIDE ONE" OF THE BAR AT RANDOM

(UAE2)

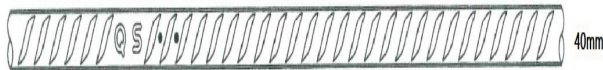
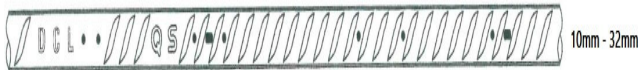
Conares Metal Supply Limited



Note: (•) mark / marks may be found on the top roll of the bar at random

(UAE3)

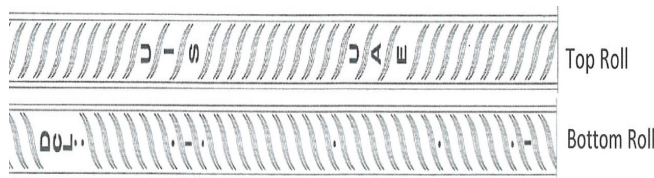
Emirates Steel Industries Co. PJSC



(●) mark may be found on the opposite side of the bar at random

(UAE4)

QATAR STEEL COMPANY FZE



The number of transverse ribs between the UIS and UAE logos may vary.

(●) mark may be found on the opposite side of the bar at random

(UAE5)

Union Iron & Steel Company L.L.C

F	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of UAE5	H.L. LI	12 Jan 2023
E	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of UAE4	W.C. Leung	14 Mar 2022
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of UAE3	W.C. Leung	26 Apr 2019
C	The bar sizes of 8, 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of UAE2	W.C. Leung	19 Dec 2018
B	The bar pattern UAE1 was cancelled	W.C. Leung	19 Nov 2018
A	The bar sizes of 8, 10, 12, 16, 20, 25 & 32 mm were registered for bar pattern of UAE1	Y.W. Yim	16 Jun 2012
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 UAE - UNITED ARAB EMIRATES
 (Remark: Steel bars were registered to CS2 unless otherwise stated)

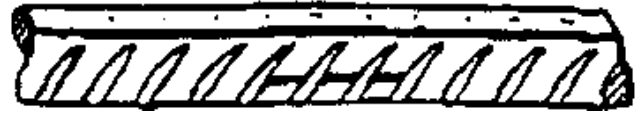
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.
DATE July 2024

DRAWING NO.
 PWL/UAE/1



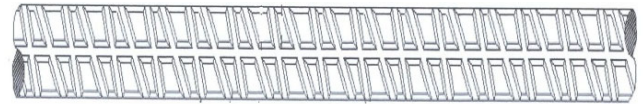
(UKD1)
Alphasteel Ltd.



(UKD6)
Co-Steel sheerness P.L.C.



(UKD2)
Cardiff Rod and Reinforcement



(UKD7)
Celsa Manufacturing (UK) Ltd.



(UKD3)
Co-Steel sheerness P.L.C.



(UKD8)
Celsa Manufacturing (UK) Ltd.



(UKD4)
Co-Steel sheerness P.L.C.



(UKD9)
Celsa Manufacturing (UK) Ltd.



(UKD5)
Co-Steel sheerness P.L.C.

C	The bar sizes of 20 mm was registered for bar pattern of UKD9	Y.W.Yim	17 Jun 2010
B	The bar sizes of 10,12,14,16,20,25,32,40&50 mm were registered for bar pattern of UKD8	Y.W.Yim	17 Jun 2010
A	The bar sizes of 8,10,12&16 mm were registered for bar pattern of UKD7	Y.W.Yim	17 Jun 2010
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
UKD - UNITED KINGDOM
(Remark: Steel bars were registered to CS2 unless otherwise stated)

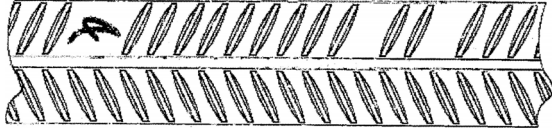
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE	N.T.S.	DRAWING NO. PWL/UKD/1
DATE	July 2024	



(UKR1)

Krivorozhsky State Owned Integrated Mining and Metallurgical Works "KRIVOROZHSTAL"



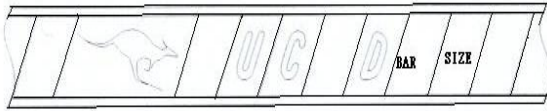
(UKR3)

PJSC "ArcelorMittal Kryvyi Rih"

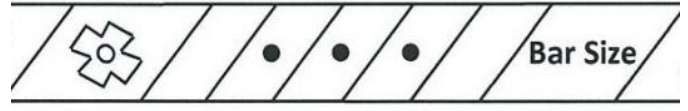
A	The bar sizes of 8, 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of UKR3	W.C. Leung	27 June 2017
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 UKR - UKRAINE
 (Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT		DRAWING NO.
Geotechnical Engineering Office		
Public Works Laboratories		PWL/UKR/1
SCALE	N.T.S.	
DATE	July 2024	



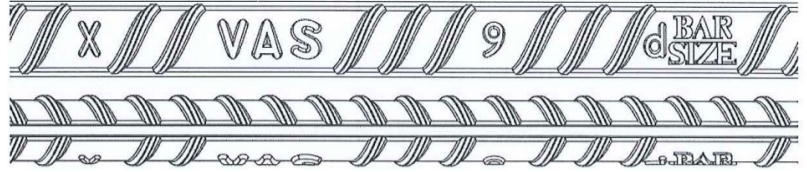
(VNM1)
SSESTEEL Ltd.



(VNM6)
Vina Kyoei Steel Company Limited



(VNM2)
Shengli Vietnam Special Steel Company Ltd.



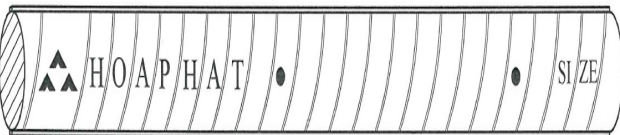
(VNM7)
VAS Group Nghi Son Joint Stock Company



(VNM3)
Shengli Vietnam Special Steel Company Ltd.



(VNM4)
Hoa Phat Hai Duong Steel Joint Stock Company



(VNM5)
Hoa Phat Dung Quat Steel Joint Stock Company

I	The bar size of 40 mm was added to the bar pattern of VNM7	H.L.LI	29 Nov 2023
H	The bar sizes of 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of VNM7	H.L. LI	14 Sep 2023
G	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of VNM6	H.L. LI	31 May 2023
F	The bar size of 32mm were added to the bar pattern of VNM3	W.C. Leung	25 Oct 2022
E	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of VNM5	W.C. Leung	22 Nov 2021
D	The bar sizes of 10, 12, 16, 20, 25, 32 & 40 mm were registered for new bar pattern of VNM4	W.C. Leung	23 Dec 2020
C	The bar sizes of 10, 12, 16, 20 & 25 mm were registered for new bar pattern of VNM3	W.C. Leung	27 Oct 2020
B	The bar sizes of 12, 16 & 20 mm were registered for new bar pattern of VNM2	Y.W.Yim	27 Oct 2011
A	The bar sizes of 20, 25 & 32 mm were registered for new bar pattern of VNM1	C.T.Kwok	5 Aug 2008
Rev.	Revision	Signature	Date

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
VNM - VIETNAM

(Remark: Steel bars were registered to CS2 unless otherwise stated)

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Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE July 2024

DRAWING NO.

PWL/VNM/1