

Steel Bar Circular

Issue No. : 2/2026
Date : 01 April 2026

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 (April 2026)
- (ii) List of Bar Pattern Codes for Quality Assured Manufacturers to CS2:2012 Grade 500C / BS4449:2005 Grade B500C (April 2026)
- (iii) List of Bar Pattern Codes for Quality Assured Manufacturers to CS2:1995 (April 2026)
- (iv) List of Quality Assured Stockists to CS2:2012 (April 2026)
- (v) List of Quality Assured Stockists to CS2:1995 (April 2026)
- (vi) List of Revision to Drawings on Bar Pattern of Confirmed Origin Manufactured to CS2 / BS4449:2005 (April 2026)
- (vii) List of Drawings on Bar Pattern of Confirmed Origin Manufactured to CS2 / BS4449:2005 (April 2026)
- (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.



(S N GOH)

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 (April 2026)**

| 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 |
| | ALA2 | Algerian Qatari Steel | # | | | 29.01.2026 |
| 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. | # | # | # | 18.05.2028 |
| | 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. | # | | | 15.09.2027 |
| | 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, CHA175, CHA178, CHA179 | 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 (April 2026)**

| 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, CHA173 | 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. | # | | | 05.08.2027 |
| | CHA159 | Jingye Iron and Steel Co., Ltd. | # | | | 30.08.2027 |
| | CHA160 | Hebei Xinda Iron & Steel Group Co., Ltd. | # | | | 19.01.2023 |
| | CHA161 | Guangzhou Iron & Steel New Material Co., Ltd. | # | | | 26.02.2028 |
| | CHA162 | Guangdong Gangyuan Metal Industry Co., Ltd. | # | | | 06.08.2027 |
| | CHA164, CHA172 | Guangxi Iron & Steel Group Co., Ltd. | # | # | | 18.06.2028 |
| | CHA165 | Liaozhou Iron & Steel Company Limited | # | # | | 18.06.2028 |
| | 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. | # | | | 14.09.2028 |
| | CHA170 | Guangdong Shengye Steel Company Ltd. | # | | | 19.06.2026 |
| | CHA171 | Yangchun New Iron & Steel Co., Ltd. | # | # | | 10.07.2028 |
| | CHA174 | Wuzhou Yongda Iron and Steel Co., Ltd. | # | | | 06.01.2027 |
| | CHA176 | Guangdong Jinshenglan Metallurgical Technology Co., Ltd. | # | | | 03.01.2028 |
| CHA177, CHA180 | Guangdong Yuchua Steel Group Co., Ltd. | # | # | | 08.11.2028 | |
| Hong Kong | HKG8 | Shiu Wing Steel Limited | # | | | 16.09.2026 |
| | 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, KOR28 | Daehan Steel Co., Ltd. | | # | # | 25.10.2026 |
| | KOR25 | Dongkuk Steel Incheon Factory | # | | | 12.05.2027 |
| | KOR27 | Dongkuk Steel Pohang Factory | | # | | 07.11.2027 |
| Malaysia | MAL19 | Southern Steel Berhad | # | | | 27.08.2021 |
| | MAL20, MAL21, MAL22 | Alliance Steel (M) Sdn. Bhd. | # | | | 23.12.2027 |
| | MAL23 | Amsteel Mills Sdn. Bhd. | | # | | 07.12.2025 |
| | | | | | | |
| Oman | OMN1 | Jindal Shadeed Iron and Steel LLC | # | | | 10.05.2021 |
| | OMN2 | Jindal Shadeed 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. | | # | # | 06.03.2027 |
| | SGP8 | Natsteel Holdings Pte. Ltd. | # | | | 06.03.2027 |
| | SGP9 | Natsteel Holdings Pte. Ltd. | | # | | 06.03.2027 |
| 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. | # | # | # | 06.11.2026 |
| | TUK34, TUK45 | Diler Iron and Steel Co., Inc. | # | # | | 30.03.2026 |
| | 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 | Ekimeler Demir Ve Celik Sanayi A.S. | # | | | 15.09.2021 |
| | TUK40 | Bastug Metahurji 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 (April 2026)**

| 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 Kyoel 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 SGS 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 (April 2026)**

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| 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 |
| Korea | KOR26 | Dongkuk Steel Incheon Factory | # | | | 12.05.2027 |
| 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 (April 2026)**

| 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 Beiyong 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 (April 2026)

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| 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 | KYH Metal Works Company Limited | 23.03.2029 |
| 4 | K.Y.H. Steel Company Limited | 23.03.2029 |
| 5 | Welmetal Resources Group Limited | 27.06.2027 |
| 6 | VSC Steel Company Limited | 16.07.2027 |
| 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. | 27.04.2029 |
| 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 | 13.03.2028 |
| 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. | 26.08.2027 |

List of Quality Assured Stockists Conformed to
CS2 : 2012 (April 2026)

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| 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. | 30.06.2028 |
| 33 | Sun Yuen Hong Lim Kee Ltd. | 09.08.2017 |
| 34 | Creative Corpoartion Limited | 29.07.2017 |
| 35 | Wo Lee Steel Co., Ltd. | 28.02.2027 |
| 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) | 16.07.2027 |
| 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 | 22.11.2026 |

List of Quality Assured Stockists Conformed to
CS2 : 2012 (April 2026)

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| No. | Name of Stockist | Q.A. Cert. Expiry Date |
|-----|---|---------------------------|
| 52 | Great Steel Trading Limited | 27.02.2027 |
| 53 | Welmetal Steel (Hong Kong) Limited | 25.06.2028 |
| 54 | Minmetals Cheerglory Limited | 17.09.2028 |
| 55 | Sunrise Bright Construction Materials Company Limited | 22.10.2025 |
| 56 | Hebei Jiwu Metal International (Hong Kong) Co., Limited | 28.04.2028 |
| 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 |
| 63 | Ho Hon System Formwork Limited | 15.06.2027 |
| 64 | Kelda Materials Limited | 08.10.2027 |
| 65 | Luen Fat Commercial Trading Limited | 12.11.2027 |
| 66 | Tonggia Limited | 15.08.2027 |
| 67 | Golik Construction Materials Limited | 27.06.2027 |

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 (April 2026)

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| 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 | 13/03/2025 |
| 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 (April 2026)

| 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
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| 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 |

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| 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 |

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| 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 |

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| 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 (April 2026)

| 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 (April 2026)

| 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 (April 2026)

| Drawing No. | Bar Pattern |
|-------------|--|
| PWL/ALA1 | ALA1, ALA2 |
| 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, CHA172 |
| PWL/CHA/22 | CHA173, CHA174, CHA175, CHA176, CHA177, CHA178, CHA179, CHA180 |
| 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, KOR25, KOR26, KOR27, KOR28 |
| 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, MAL22, MAL23 |
| 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 (April 2026)

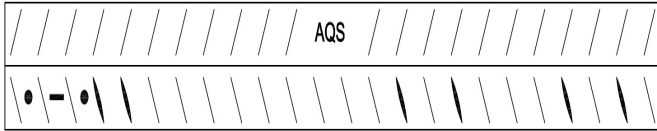
| Drawing No. | Bar Pattern |
|-------------|---|
| PWL/ROB/1 | ROB1, ROB2, ROB3 |
| PWL/RUS/1 | RUS3, RUS4, RUS5, RUS6, RUS7, RUS8 |
| PWL/SAF/1 | SAF1, SAF2, SAF3, SAF4, SAF5, SAF6, SAF7, SAF8 |
| PWL/SDA/1 | SDA1, SDA2, SDA3, SDA4, SDA5, SDA6, SDA7, SDA8 |
| PWL/SGP/1 | SGP1, SGP2, SGP3, SGP4, SGP5 |
| PWL/SGP/2 | SGP6, SGP7, SGP8, SGP9 |
| 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, TUK45 |
| 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



(ALA2)

Algerian Qatari Steel

| | | | |
|------|--|------------|-------------|
| B | The bar sizes of 10, 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of ALA2 | H.L. LI | 12 Sep 2024 |
| 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 |

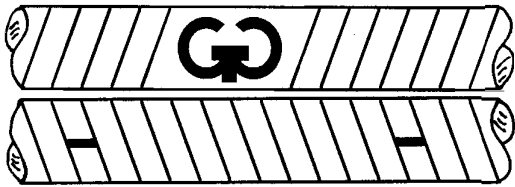
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
ALA - ALGERIA

(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.
DATE April 2026

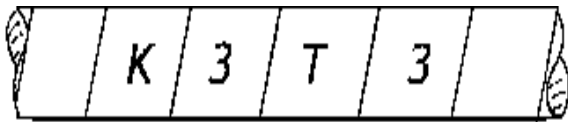
DRAWING NO.
PWL/ALA/1



(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)

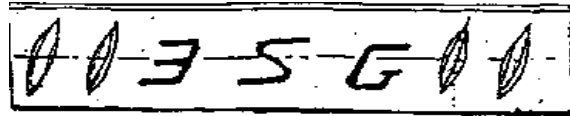
| Rev. | Revision | Signature | Date |
|---|------------|--------------------|------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/BZL/1 | |



(CHA1)
Tianjin rolling Mill 3



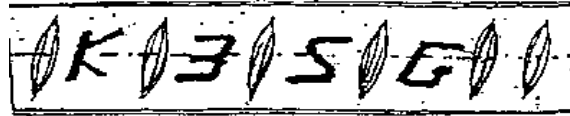
(CHA6)
Guangzhou Iron & Steel Holdings Ltd.



(CHA7)
Shougang Corporation



(CHA3)
Hangzhou Iron & Steel Group Co.



(CHA8)
Shougang Corporation



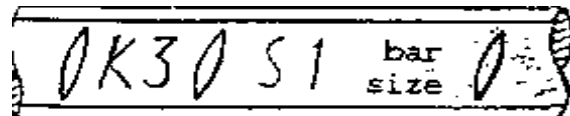
(CHA4)
Jiangsu Shazhou steel Group Co.,



(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 | April 2026 | 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.



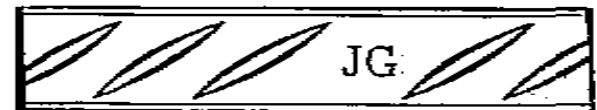
(CHA18)

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
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| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/CHA/2 | |



Original bar pattern



Alternative bar pattern

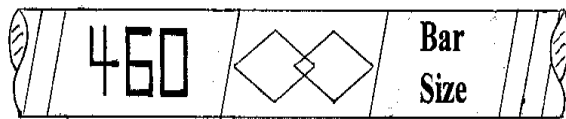
(CHA22)

Maanshan Iron & Steel Co., Ltd.



(CHA27)

Nanjing Iron & Steel Group Co., Ltd.



(CHA23)

Lian Yuan Iron & Steel Group Co., Ltd.



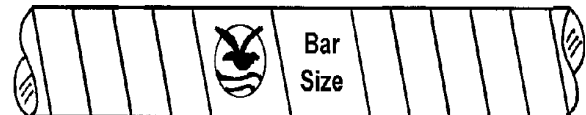
(CHA28)

Nanjing Iron & Steel Group Co., Ltd.



(CHA24)

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



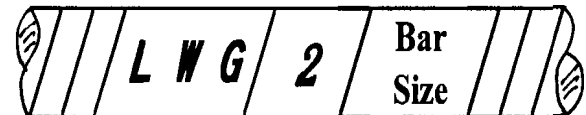
(CHA29)

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)

| | | |
|--|------------|-------------|
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| SCALE | N.T.S. | DRAWING NO. |
| DATE | April 2026 | PWL/CHA/3 |



OR



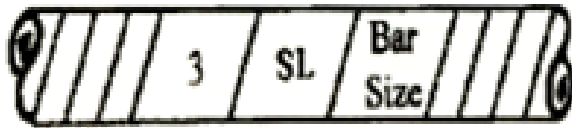
(CHA34)

PANGANG GROUP CHENGDU IRON & STEEL CO., LTD.



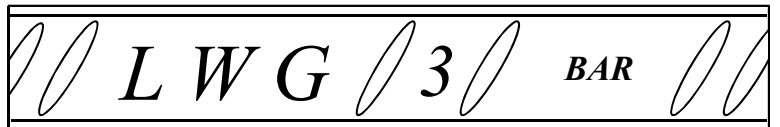
(CHA31)

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 |

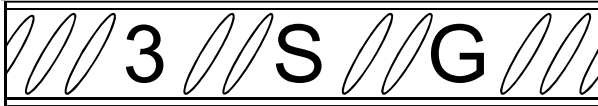
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

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

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
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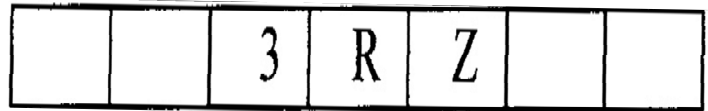
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/4



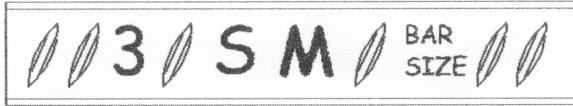
(CHA37)

China Shougang International Trade & Engineering Corporation



(CHA43)

Rizhao Steel Co.,Ltd.



(CHA38)

GuangDong Sino Master Group Co., Ltd



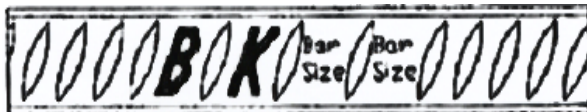
(CHA44)

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)

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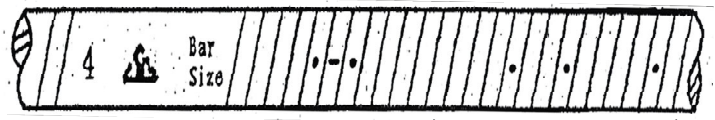
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/5



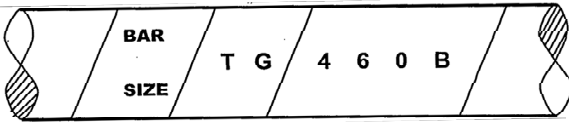
(CHA45)

Guangzhou Iron & Steel Holdings Ltd.



(CHA51)

Jiangsu Shagang Group Co., Ltd.



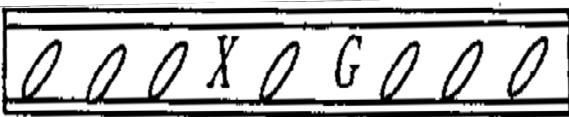
(CHA46)

Tianjin Iron & Steel Group Co. Ltd.



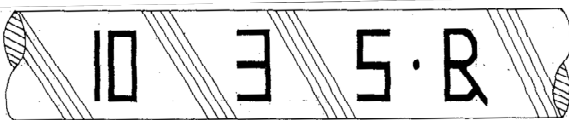
(CHA52)

LAIWU STEEL CORPORATION



(CHA47)

XuanHua Iron and Steel Group Corp., Ltd.



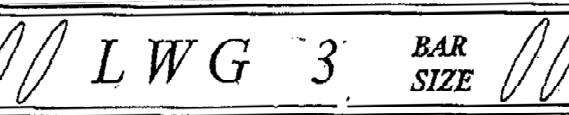
(CHA48)

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

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SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/6



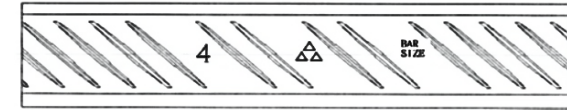
(CHA53)

Maanshan Iron & Steel Co., Ltd.



(CHA54)

Chengde Xinxin Vanadium and Titanium Co., Ltd.



(CHA55)

Jiangsu Shagang Group Co., Ltd.



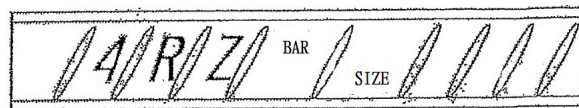
(CHA56)

LAIWU STEEL CORPORATION



(CHA57)

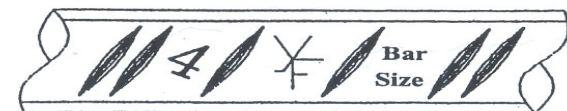
Fushun New Steel Corp. Ltd.



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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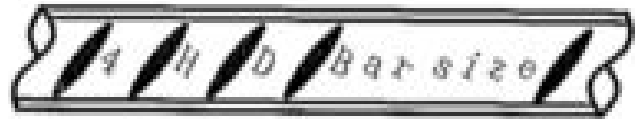
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/7



(CHA62)

Shanghai Shente Beam Co., Ltd.



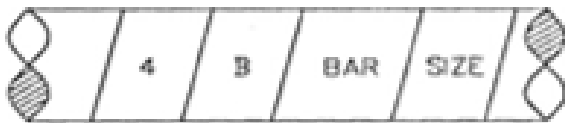
(CHA68)

MaoMing HengDa Iron & Steel Co., Ltd.



(CHA63)

Guangzhou Iron & Steel Holdings Ltd.



(CHA64)

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



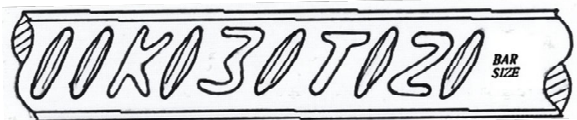
(CHA65)

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)

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DATE April 2026

DRAWING NO.
PWL/CHA/8



(CHA78)

Rizhao Steel Wire Co., Ltd.



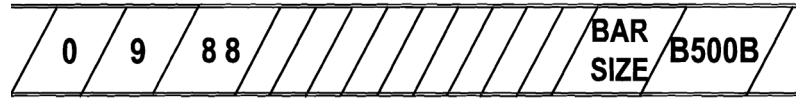
(CHA86)

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 April 2026

DRAWING NO.
PWL/CHA/10



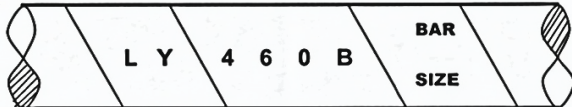
(CHA88)

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.



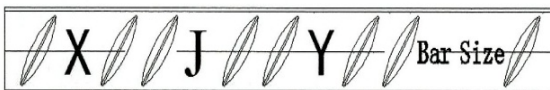
(CHA92)

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 |

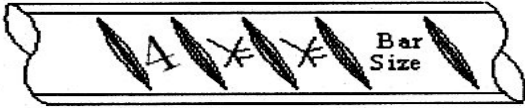
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

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

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

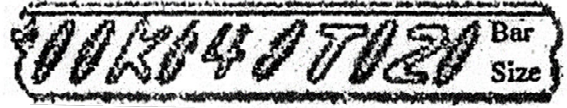
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/11



(CHA96)

Guangzhou Panyu Yufeng Iron and Steel Co., Ltd.



(CHA103)

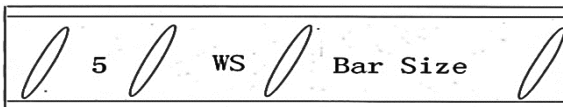
Tianjin Tiantie Zhaer Steel Production Co., Ltd.



(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.



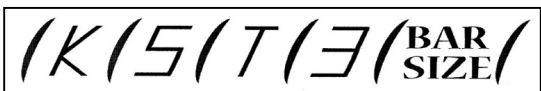
(CHA100)

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
Public Works Laboratories

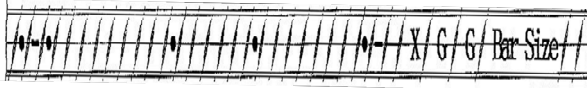
SCALE N.T.S.
DATE April 2026

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.



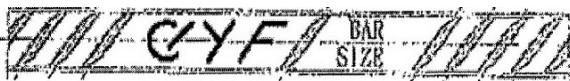
(CHA108)

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 |

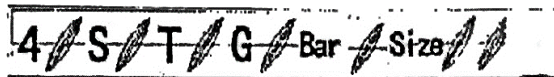
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

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

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
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SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/13



(CHA113)

Shandong Shiheng Special Steel Group Co., Ltd.



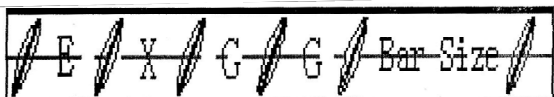
(CHA114)

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.



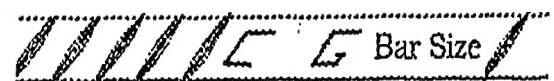
(CHA118)

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
Public Works Laboratories

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| SCALE | N.T.S. | DRAWING NO. |
| DATE | April 2026 | PWL/CHA/14 |

(K14)  (BAR SIZE)

(CHA121)

Jiangsu Xinlin Iron & Steel Co. Ltd.

(K15)  (BAR SIZE)

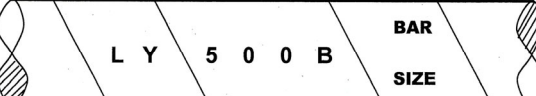
(CHA122)

Jiangsu Xinlin Iron & Steel Co. Ltd.

 (CHA123)

(CHA123)

Hebei Jingye Iron and Steel Co. Ltd.

 (CHA124)

(CHA124)

Lingyuan Iron & Steel Co., Ltd.

 (CHA125)

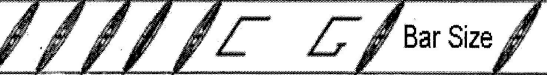
(CHA125)

Shiheng Special Steel Group Co., Ltd.

 (CHA126)

(CHA126)

Fushun New Steel Corporation Ltd.

 (CHA127)

(CHA127)

Jiangyin City Changda Steel Co., Ltd.

 (CHA128)

(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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

| | | |
|-------|------------|-------------|
| SCALE | N.T.S. | DRAWING NO. |
| DATE | April 2026 | 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

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

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

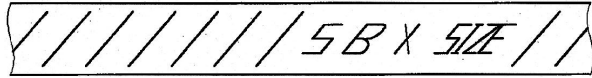
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/16

4ZY BAR SIZE

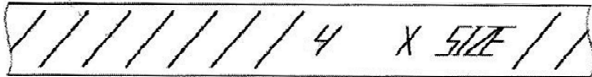
(CHA137)

Northern Guangdong United Steel and Iron Co., Ltd.



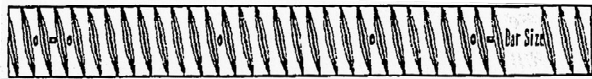
(CHA138)

Xinxing Ductile Iron Pipes Co., Ltd.



(CHA139)

Xinxing Ductile Iron Pipes Co., Ltd.



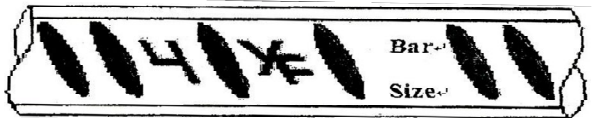
(CHA140)

Zenith Steel Group Co., Ltd.

4EZY BAR SIZE

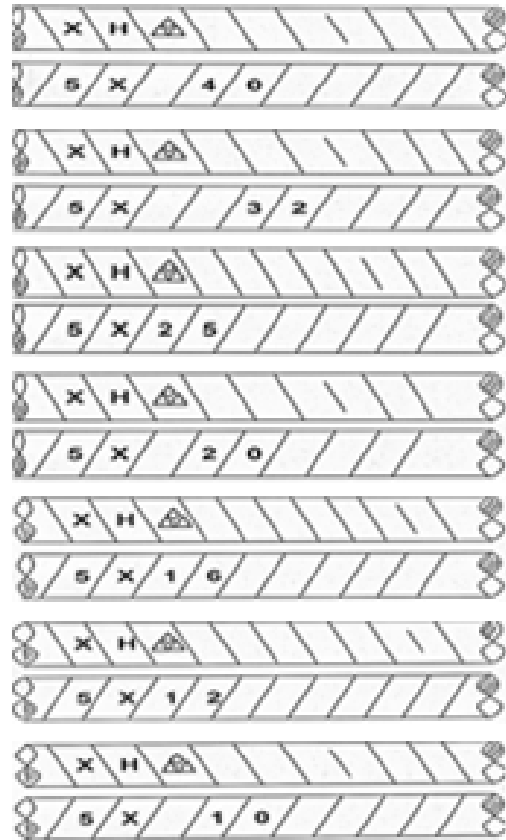
(CHA141)

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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
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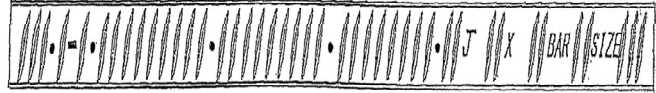
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/17



(CHA144)

Longnan Fuxin Iron & Steel Co., Ltd.



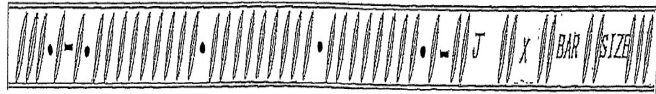
(CHA150)

Hebei Jinxi Iron & Steel Group Co., Ltd.



(CHA145)

Longnan Fuxin Iron & Steel Co., Ltd.



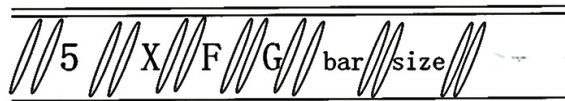
(CHA151)

Hebei Jinxi Iron & Steel Group Co., Ltd.



(CHA146)

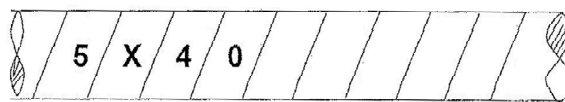
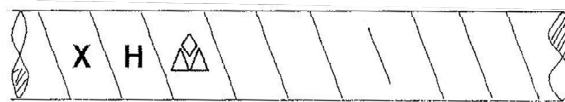
Guangzhou Iron and Steel Holdings Limited.



(CHA147)

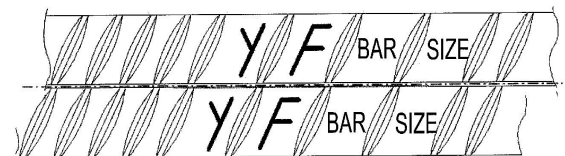
Fushun New Steel Corporation Ltd.

(●) 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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

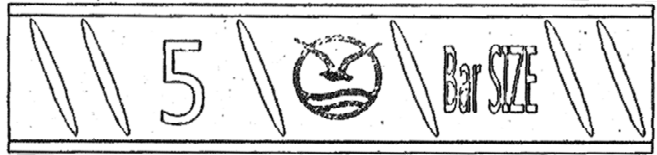
SCALE N.T.S.
DATE April 2026

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 |

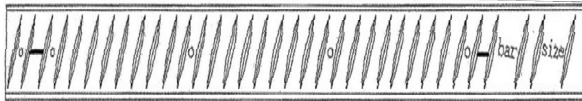
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

(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 April 2026

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)

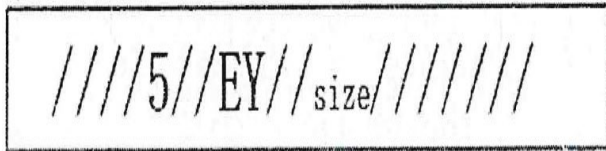
Hebei Xinda Iron & Steel Group Co., Ltd.



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

(CHA161)

Guangzhou Iron & Steel New Material Co., Ltd.



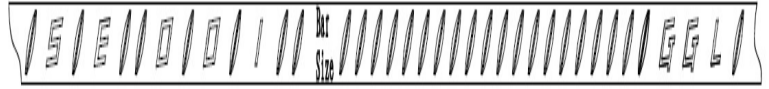
(CHA162)

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
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SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/20



6mm & 8mm



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

(CHA165)

Liuzhou Iron & Steel Company Limited



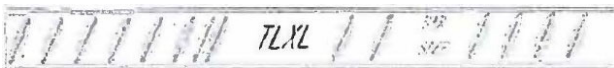
(CHA166)

Shandong Iron & Steel Group Yongfeng
Lingang Corporation



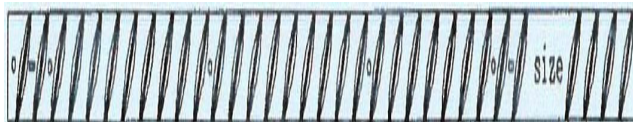
(CHA167)

Rizhao Steel Holding Group Co., Ltd.



(CHA168)

Tongling City Xuanli Special Steel Co.,Ltd.



(CHA169)

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



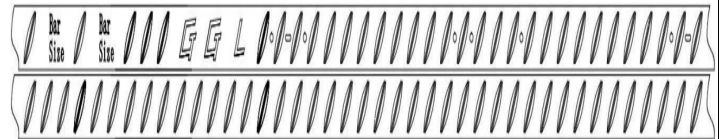
(CHA170)

Guangdong Shengye Steel Company Ltd.



(CHA171)

Yangchun New Iron & Steel Co., Ltd.



(CHA172)

Guangxi Iron & Steel Group Co., Ltd.

| | | | |
|------|--|------------|-------------|
| K | Coil of size 10 & 12mm were added to for bar pattern of CHA172 | H.L. LI | 18 Dec 2025 |
| J | The bar size of 50mm were added to for bar pattern of CHA172 | H.L. LI | 12 Sep 2024 |
| I | The bar size of 10, 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA172 | H.L. LI | 29 JUL 2024 |
| 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 April 2026

DRAWING NO.
PWL/CHA/21



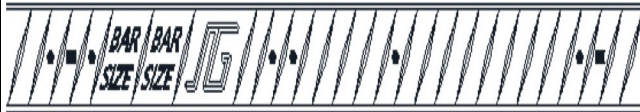
(CHA173)

Guangdong Huamei Baohua New Material Development Co., Ltd.



(CHA174)

Wuzhou Yongda Iron and Steel Co., Ltd.



(CHA175)

Guangdong Zhongnan Iron & Steel Co., Ltd.



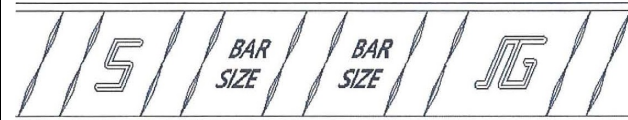
(CHA176)

Guangdong Jinshenglan Metallurgical Technology Co., Ltd.



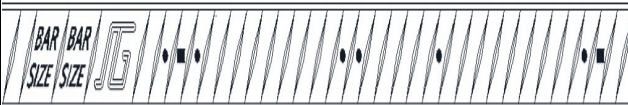
(CHA177)

Guangdong Yuehua Steel Group Co., Ltd.



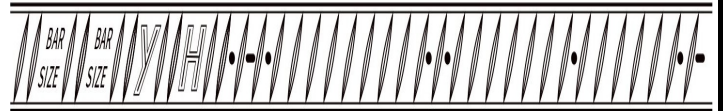
(CHA178)

Guangdong Zhongnan Iron & Steel Co., Ltd.



(CHA179)

Guangdong Zhongnan Iron & Steel Co., Ltd.



(CHA180)

Guangdong Yuehua Steel Group Co., Ltd.

| | | | |
|------|---|-----------|-------------|
| H | Coil of sizes 8, 10 & 12 mm and the bar size of 10, 12, 16, 20, 25 & 32mm were registered for new bar pattern of CHA180 | H.L. LI | 20 Mar 2026 |
| G | Coil of sizes 8, 10 & 12 mm and the bar size of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA179 | H.L. LI | 25 Sep 2025 |
| F | Coil of sizes 10 & 12 mm were registered for new bar pattern of CHA178 | H.L. LI | 16 Sep 2025 |
| E | Coil of sizes 8, 10 & 12 mm and the bar size of 10, 12, 16, 20, 25 & 32mm were registered for new bar pattern of CHA177 | H.L. LI | 21 Aug 2025 |
| D | The bar sizes of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA176 | H.L. LI | 14 Aug 2025 |
| C | Coil of sizes 10 & 12 mm and the bar size of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA175 | H.L. LI | 8 Aug 2025 |
| B | The bar sizes of 12, 16, 20, 25 & 32mm were registered for new bar pattern of CHA174 | H.L. LI | 11 Mar 2025 |
| A | The bar sizes of 12, 16, 20, 25, 32 & 40mm were registered for new bar pattern of CHA173 | H.L. LI | 20 Aug 2024 |
| Rev. | Revision | Signature | Date |

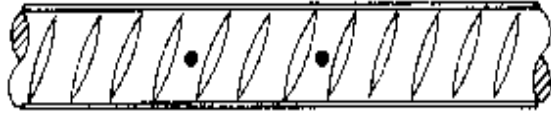
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
CHA - CHINA

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

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

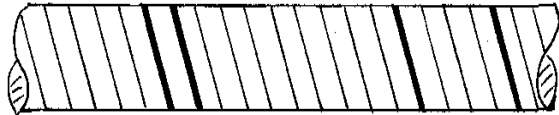
SCALE N.T.S.
DATE April 2026

DRAWING NO.
PWL/CHA/22



(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. | |
| DATE | April 2026 | PWL/CZH/1 | |

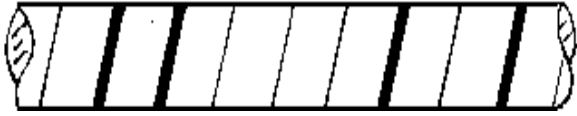


(EGT1)

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

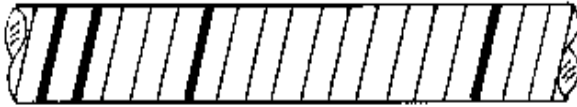
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
EGT - EGYPT
(Remark: Steel bars were registered to CS2 unless
otherwise stated)

| Rev. | Revision | Signature | Date |
|--|------------|--------------------|------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/EGT/1 | |



(FRE1)

Acieries Et Laminiers De Parts



(FRE2)

Iton - Seine S.A.

BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
FRE - FRANCE
(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 | April 2026 | PWL/FRE/1 | |

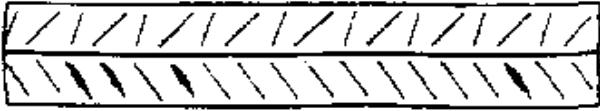


(GRE1)

**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 | | April 2026 | |



(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

| | | |
|--------------|------------|---------------------------------|
| SCALE | N.T.S. | DRAWING NO. PWL/GRY/1 |
| DATE | April 2026 | |



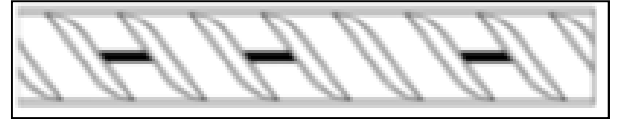
(HKG1)
Shiu Wing Steel Ltd.



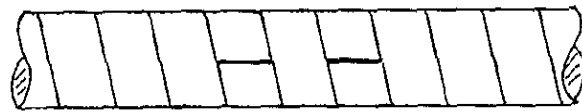
(HKG7)
Shiu Wing Steel Ltd.



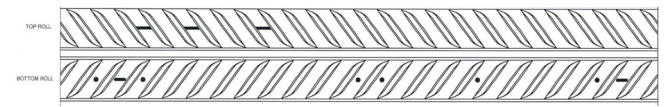
(HKG2)
Shiu Wing Steel Ltd.



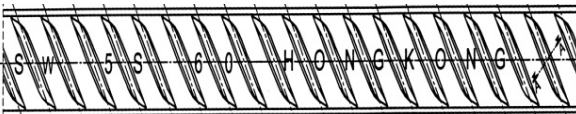
(HKG8)
Shiu Wing Steel Ltd.



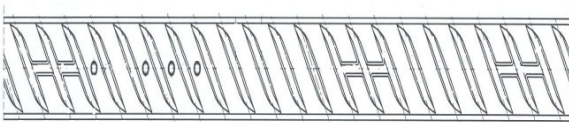
(HKG3)
Shiu Wing Steel Ltd.



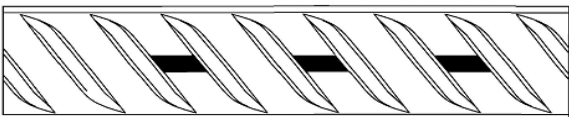
(HKG9)
Shiu Wing Steel Ltd.



(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)

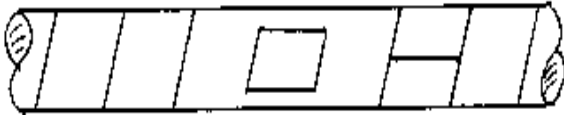
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

PWL/HKG/1



(HOL1)

Hoogovens Staal Lange Produkten



(HOL2)

Hoogovens Staal Lange Produkten

| Rev. | Revision | Signature | Date |
|---|------------|--------------------|------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/HOL/1 | |

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 HOL - HOLLAND

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



(IND1)

Pt. The Master Steel Mfg. Co.



(IND6)

PT. Putra Baja Deli



(IND2)

Pt. Jakarta Cakratunggal Steel Mills



(IND7)

PT. TUNGGAL JAYA STEEL



(IND3)

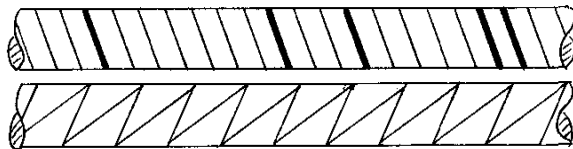
Pt. Budidharma Jakarta Steel Melting and Rolling Mills



(●) 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)

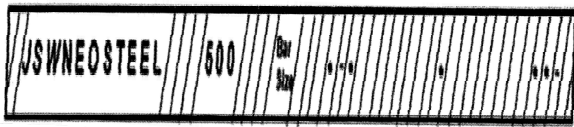
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

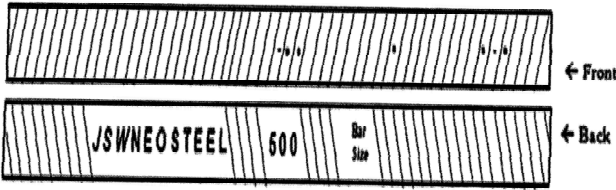
DATE April 2026

DRAWING NO.

PWL/IND/1



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



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

SIDE - 1

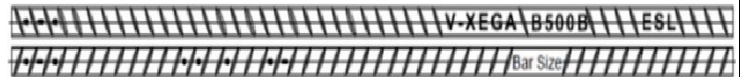


SIDE - 2



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



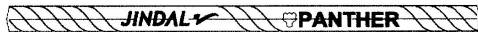
(INA4)
ESL Steel Ltd.

SIDE - 1

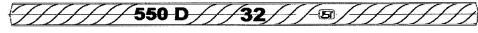


40mm

SIDE - 2



SIDE - 1



32mm

SIDE - 2

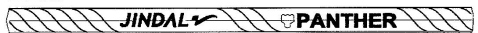


SIDE - 1

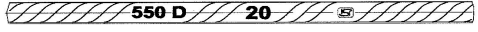


25mm

SIDE - 2

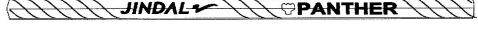


SIDE - 1

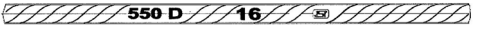


20mm

SIDE - 2

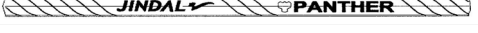


SIDE - 1

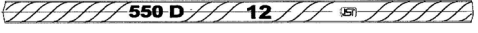


16mm

SIDE - 2

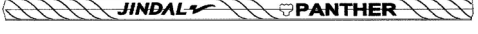


SIDE - 1

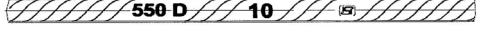


12mm

SIDE - 2

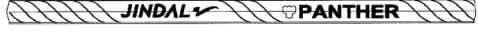


SIDE - 1

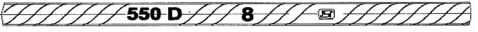


10mm

SIDE - 2

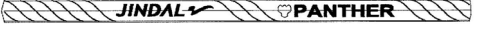


SIDE - 1



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 April 2026

DRAWING NO.

PWL/INA/1



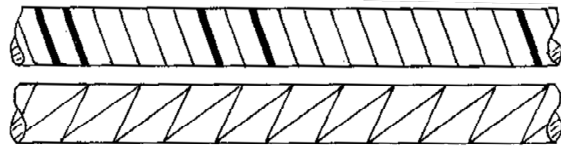
(IT1)

Feralpi Siderurgica SPA (Holding Company)



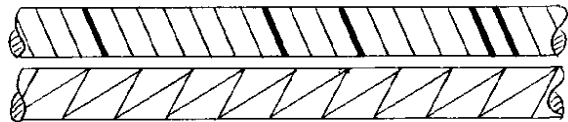
(IT2)

Officine e Fonderie Galtarossa



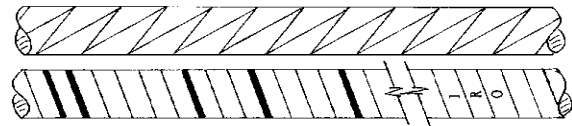
(IT3)

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 |
|------|----------|-----------|------|

BAR PATTERN OF CONFIRMED ORIGIN
 MANUFACTURED TO CS2 / BS4449:2005
 ITY - ITALY

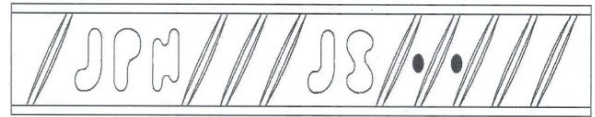
(Remark: Steel bars were registered to CS2 unless otherwise stated)

| | | |
|--|------------|--------------------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | |
| SCALE | N.T.S. | DRAWING NO. |
| DATE | April 2026 | PWL/ITY/1 |



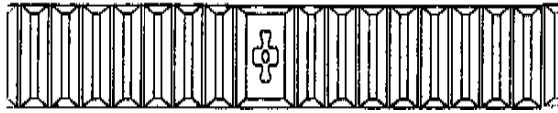
(JPN1)

Daiwa Steel Corporation



(JPN7)

Jonan Steel Corporation

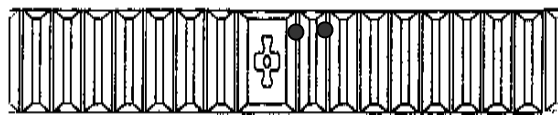


Kyoei Steel Ltd.



(JPN8)

Sanko Seiko Co., Ltd.



(JPN3)

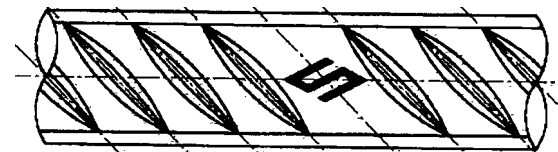
Kyoei Steel Ltd.



(JPN9)

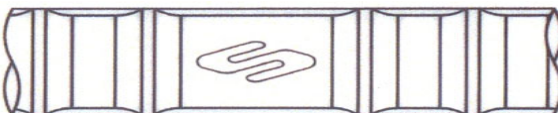
SANKO SEIKO CO., LTD.

(●) 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.

DRAWING NO.

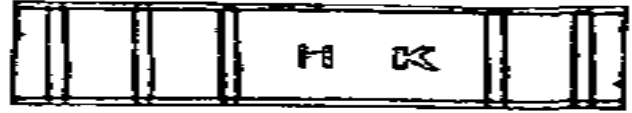
DATE April 2026

PWL/JPN/1



(KOR1)

Dongkuk Steel Mill Co., Ltd. Incheon works



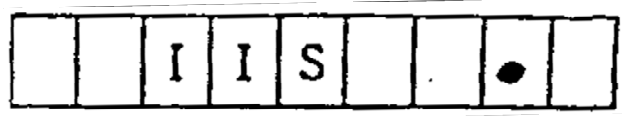
(KOR6)

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



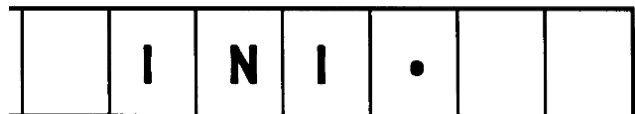
(KOR9)

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

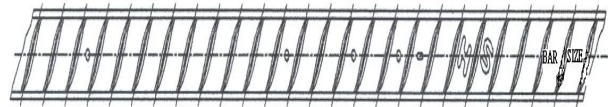
(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

| | | |
|-------|------------|--------------------------|
| SCALE | N.T.S. | DRAWING NO. PWL/KOR/1 |
| DATE | April 2026 | |



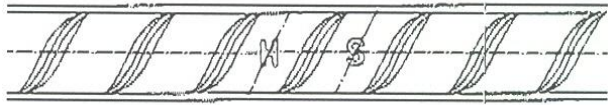
(KOR11)
INI Steel Company



(KOR18)
Hyundai Steel Company



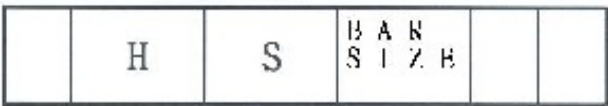
(KOR12)
INI Steel Company



(KOR19)
Hyundai Steel Company



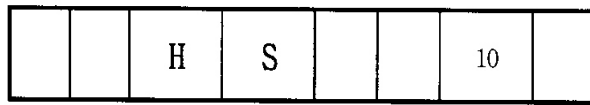
(KOR13)
INI Steel Company



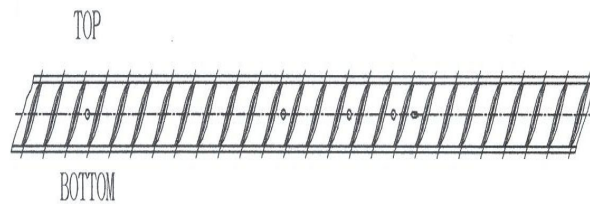
(KOR20)
Hyundai Steel Company



(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 Patten KOR15 | T.Y. Cheung | 19-Sep 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.

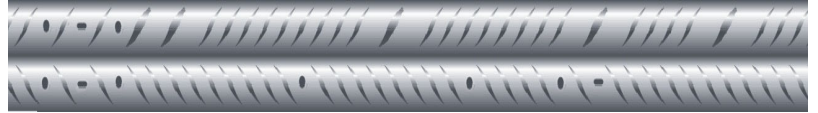
DATE April 2026

DRAWING NO.

PWL/KOR/2



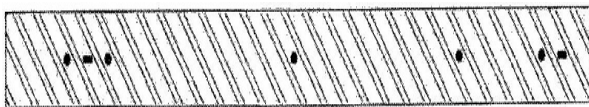
(KOR21)
Hyundai Steel Company



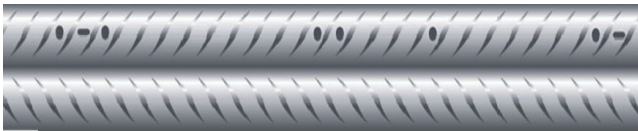
(KOR28)
Daehan Steel Co., Ltd.



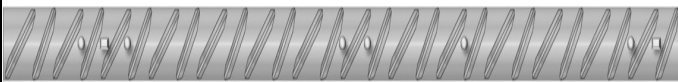
(KOR23)
Daehan Steel Co., Ltd.



(KOR24)
Daehan Steel Co., Ltd.



(KOR25)
Dongkuk Steel Incheon Factory



(KOR26)
Dongkuk Steel Incheon Factory



(KOR27)
Dongkuk Steel Pohang Factory

| | | | |
|------|--|------------|--------------|
| R | Coil / decoiled bar of sizes 10, 12 & 16 mm was registered for new bar pattern KOR28 | H.L.LI | 18 Dec 2025 |
| Q | Coil of sizes 10, 12 & 16mm was added to bar pattern of KOR27 | H.L.LI | 17 Mar 2025 |
| P | The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of KOR26 | H.L.LI | 19 Dec 2024 |
| O | The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of KOR25 | H.L.LI | 19 Dec 2024 |
| 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.

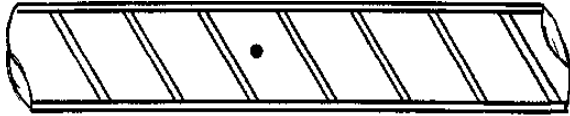
DATE April 2026

DRAWING NO.

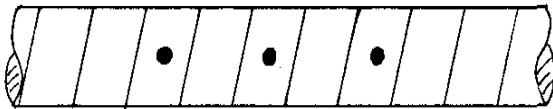
PWL/KOR/3



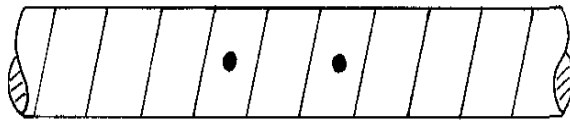
(LAT1)
Liepajas Metalurģs



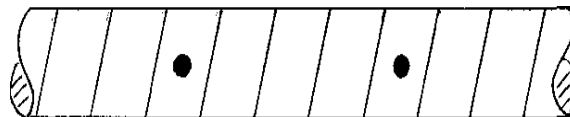
(LAT2)
Liepajas Metalurģs



(LAT3)
Liepajas Metalurģs



(LAT4)
Liepajas Metalurģs

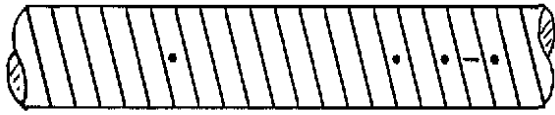


(LAT5)
Liepajas Metalurģs

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 | April 2026 | PWL/LAT/1 | |



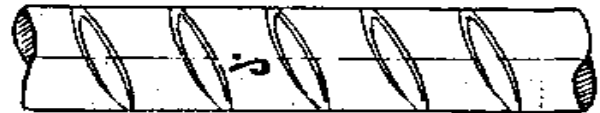
(LUX1)
Area S.A.

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. | |
| DATE | April 2026 | PWL/LUX/1 | |



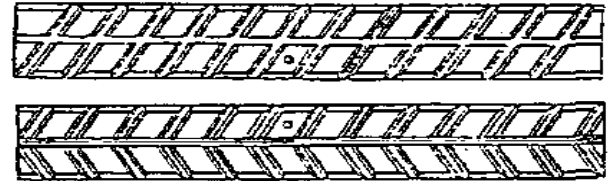
(MAL1)
Amsteel Mills SDN BHD



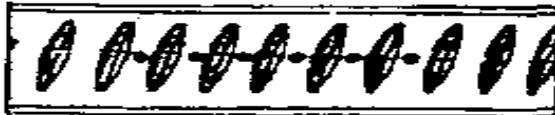
(MAL6)
Perwaja Steel SDN BHD



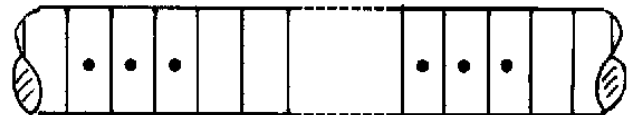
(MAL2)
Amsteel Mills SDN BHD



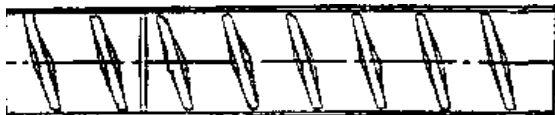
(MAL7)
Amsteel Mills SDN BHD



(MAL3)
Antara Steel Mills SDN BHD



(MAL8)
Malayawata Steel Berhad



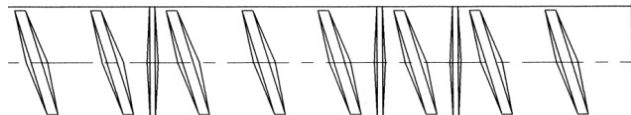
(MAL4)
Southern Steel Berhad



(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
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

PWL/MAL/1



(MAL11)

Ann Joo Steel Berhad (Prai Plant)



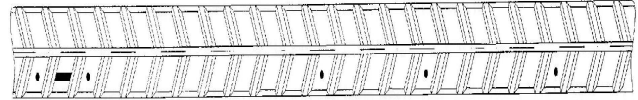
(MAL17)

Amsteel Mills SDN BHD (Klang)



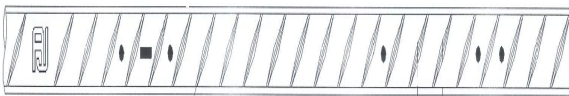
(MAL12)

Ann Joo Steel Berhad (Shah Alam Plant)



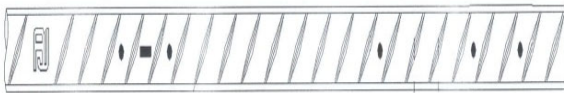
(MAL18)

Amsteel Mills SDN BHD (Banting Operation)



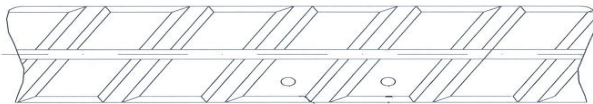
(MAL13)

Ann Joo Steel Berhad (Prai Plant)

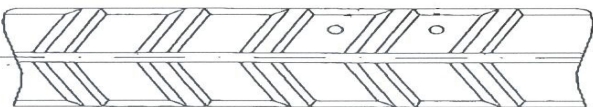


(MAL14)

Ann Joo Steel Berhad (Shah Alam Plant)



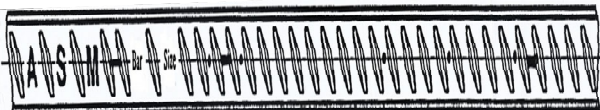
Top View



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)

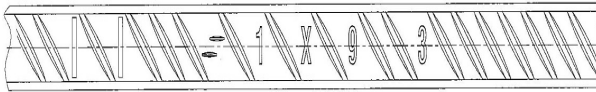
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

PWL/MAL/2



(MAL19)
Southern Steel Berhad



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



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



(MAL22)
Alliance Steel (M) Sdn. Bhd.



8mm



10 & 12mm



16mm

(MAL23)
Amsteel Mills Sdn. Bhd.

| | | | |
|------|---|------------|-------------|
| E | Coil of sizes 8, 10, 12 & 16mm were registered for new bar pattern of MAL23 | H.L. LI | 12 Sep 2024 |
| D | The bar sizes of 10,12,16,20,25,32 & 40 mm were registered for new bar pattern of MAL22 | H.L. LI | 13 Aug 2024 |
| 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
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

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 | April 2026 | PWL/MDA/1 | |

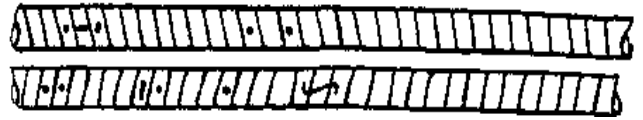
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
MDA - MOLDOVA

(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.



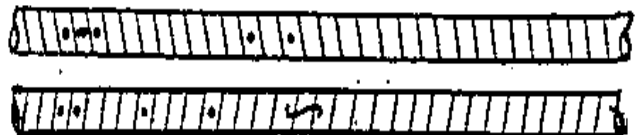
(MEX7)

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 | April 2026 | | |



(NOR1)

Fundia Bygg A.S.Mo I Rana



(NOR2)

Fundia Bygg A.S.Mo I Rana



(NOR3)

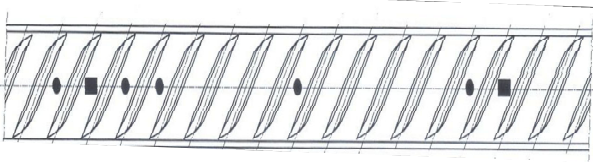
Fundia Bygg A.S.Mo I Rana

| Rev. | Revision | Signature | Date |
|---|------------|--------------------|------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/NOR/1 | |

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



(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)

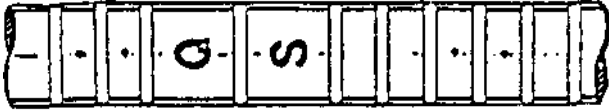
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

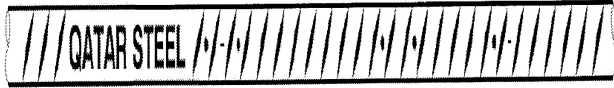
DATE April 2026

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 |

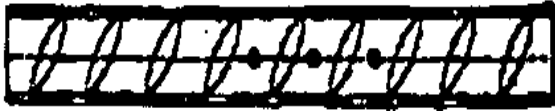
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
QTR - QATAR
(Remark: Steel bars were registered to CS2 unless otherwise stated)

| | | |
|---|------------|---------------------------------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT | | DRAWING NO. PWL/QTR/1 |
| Geotechnical Engineering Office | | |
| Public Works Laboratories | | |
| SCALE | N.T.S. | |
| DATE | April 2026 | |



(ROB1)

**Republican Unitary Enterprise
《Byelorussian SteelWorks》**



(ROB2)

**Republican Unitary Enterprise
《Byelorussian SteelWorks》**



(ROB3)

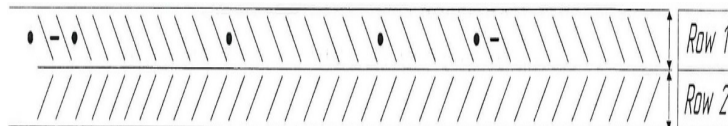
**Republican Unitary Enterprise
《Byelorussian SteelWorks》**

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 | April 2026 | 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.

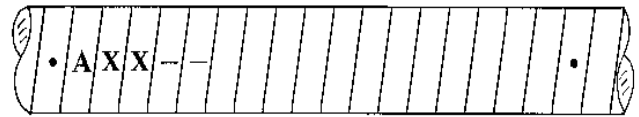
DATE April 2026

DRAWING NO.

PWL/RUS/1



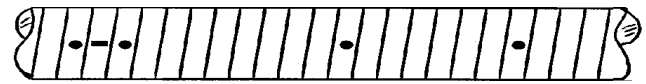
(SAF1)
Scaw Metals



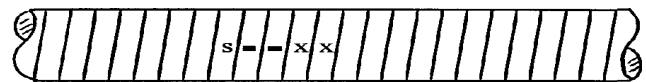
(SAF6)
Cape Gate(PTY) Limited



(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

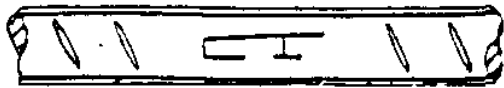


(SAF5)
Scaw Metals

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

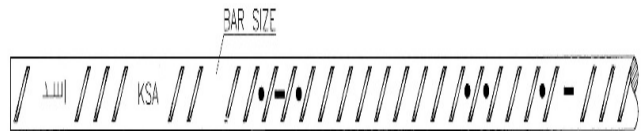
(Remark: Steel bars were registered to CS2 unless otherwise stated)

| Rev. | Revision | Signature | Date |
|--|------------|-------------|------|
| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/SAF/1 | |



(SDA1)

Saudi Iron and Steel Company (HADEED)



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

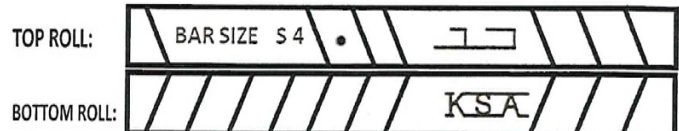
(SDA6)

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

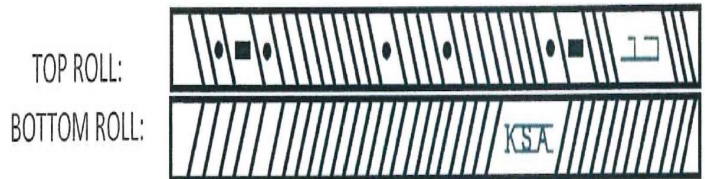
(SDA7)

Saudi Iron and Steel Company (HADEED)



(SDA3)

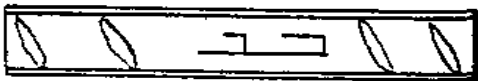
Saudi Iron and Steel Company (HADEED)



(SDA8)

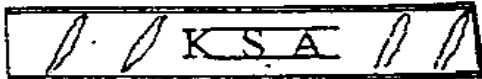
(●) mark /marks may be found on the bottom roll of the bar at random

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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S. DRAWING NO.
DATE April 2026 PWL/SDA/1

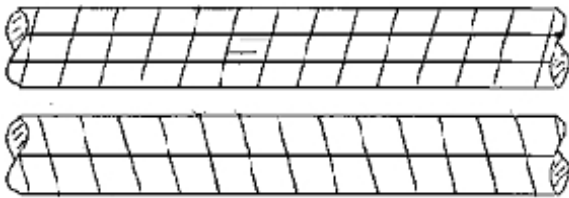


(SGP1)
Natsteel Ltd.

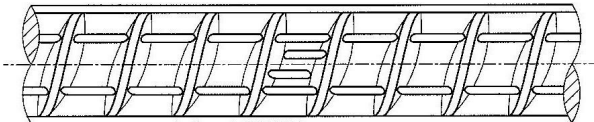


Distance between two (●) marks approximate
26~92 ribs and 450~1200mm c/c

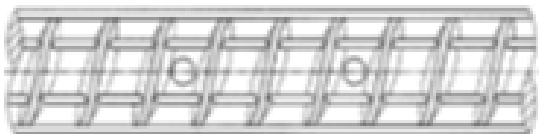
(SGP2)
Natsteel Ltd.



(SGP3)
Natsteel Ltd.



(SGP4)
NatSteel Holdings Pte. Ltd.



(SGP5)
NatSteel Holdings Pte. Ltd.

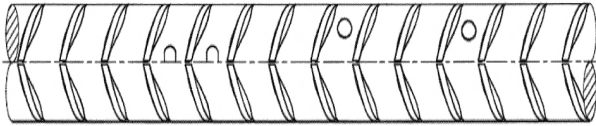
| | | | |
|------|--|-----------|-------------|
| B | The bar sizes of 10,12,16 & 20mm were registered for bar pattern of SGP5 | Y.W.Yim | 06 Dec 2010 |
| A | The bar sizes of 25, 32. 40 & 50mm were registered for bar pattern of SGP4 | Y.W.Yim | 06 Dec 2010 |
| Rev. | Revision | Signature | Date |

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

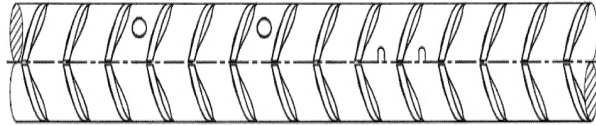
(Remark: Steel bars were registered to CS2 unless otherwise stated)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

| | | |
|-------|------------|--------------------------|
| SCALE | N.T.S. | DRAWING NO. PWL/SGP/1 |
| DATE | April 2026 | |



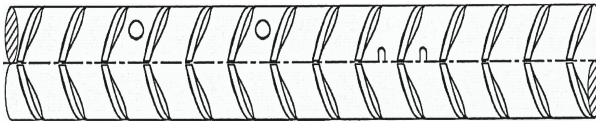
10mm & 16mm



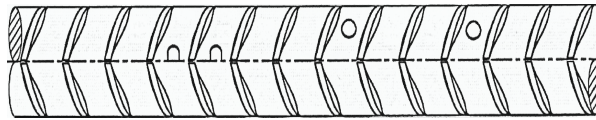
12mm

(SGP6)

NatSteel Holdings Pte. Ltd.



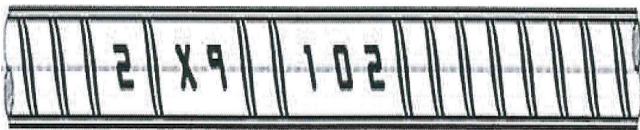
10mm & 16mm



12mm

(SGP7)

NatSteel Holdings Pte. Ltd.



(SGP8)

NatSteel Holdings Pte. Ltd.



(SGP9)

NatSteel Holdings Pte. Ltd.

| | | | |
|------|---|------------|-------------|
| F | Coil of sizes 10, 12 & 16mm were registered for bar pattern of SGP9 | H. L LI | 26 Feb 2025 |
| 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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DRAWING NO.

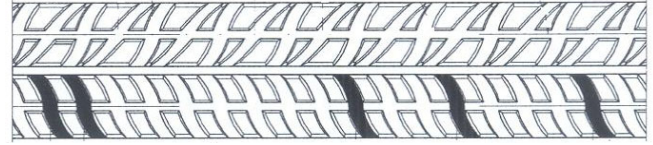
DATE April 2026

PWL/SGP/2



(SPN1)

Compania Espanola De Aceros Laminados, S.L.



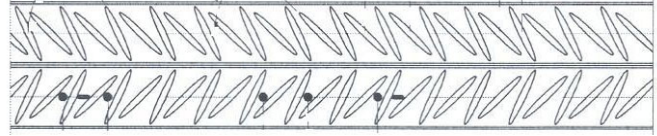
(SPN7)

Celsa Atlantic S.A.U.



(SPN2)

Nervacero S.A.



(SPN8)

Celsa Atlantic S.A.U.



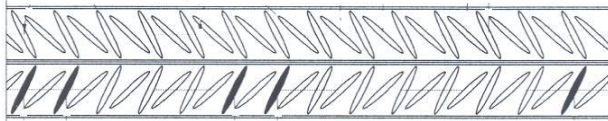
(SPN3)

Siderrurgica Sevillana S.A.



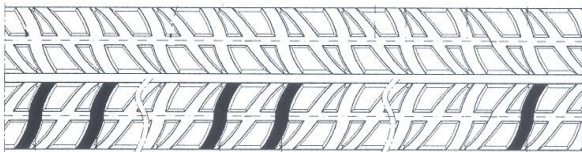
(SPN9)

Nervacero S.A.



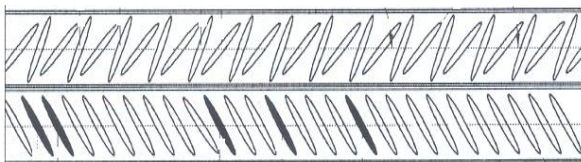
(SPN4)

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)

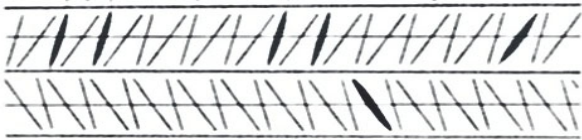
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

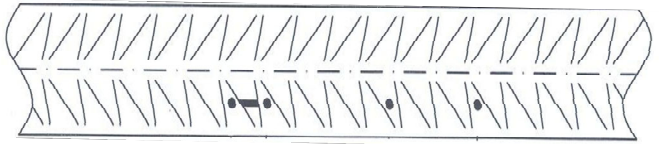
DRAWING NO.

DATE April 2026

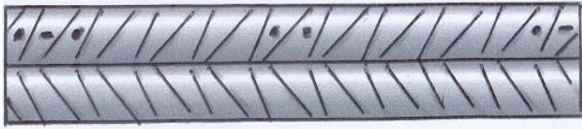
PWL/SPN/1



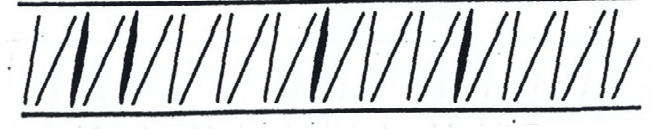
(SPN10)
Nervacero S.A.



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



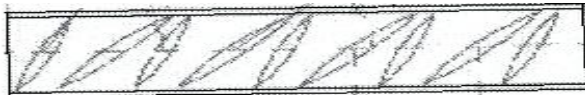
(SPN11)
Nervacero S.A.



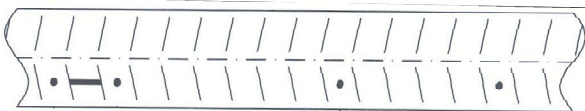
(SPN16)
Compania Espanola de Laminacion, S.L.-CELSA



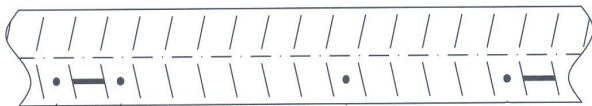
Side 1



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)

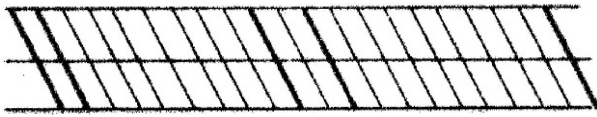
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

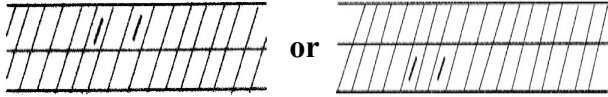
DATE April 2026

DRAWING NO.

PWL/SPN/2



Side A



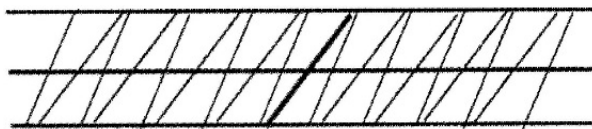
Side B

(SPN17)

Nervacero S.A.



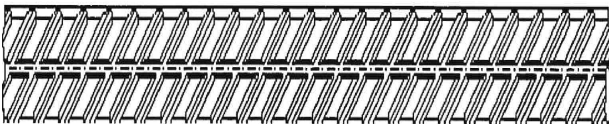
Side A



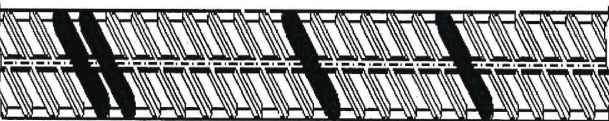
Side B

(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)

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SCALE N.T.S.

DATE April 2026

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 | April 2026 | 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.



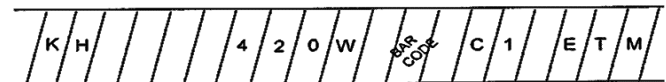
(TAW8)

Feng Hsin Steel Co., Ltd.

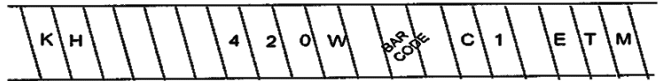


(TAW3)

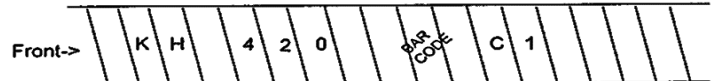
Han Tai Steel & Iron Works Co., Ltd.



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)

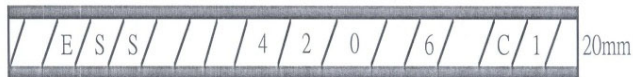
Han Tai Steel & Iron Works Co., Ltd.

| | | | |
|------|---|------------|--------------|
| 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

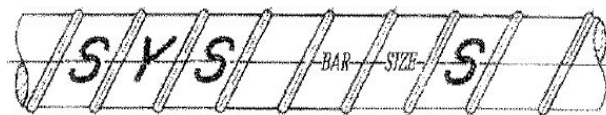
| | | |
|-------|------------|--------------------------|
| SCALE | N.T.S. | DRAWING NO. PWL/TAW/1 |
| DATE | April 2026 | |



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



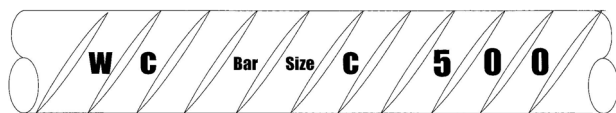
(TAW 11)
Hai Kwang Enterprise Corporation



(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-Jun 2009 |
| A | Additional bar size of 50 mm was registered for bar pattern of TAW7 | C.T.Kwok | 22-Jun 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)

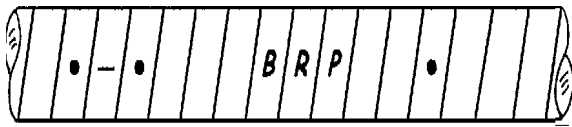
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

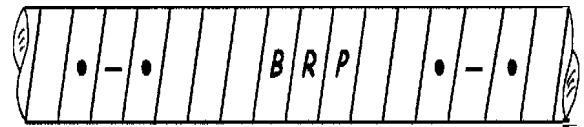
DRAWING NO.

PWL/TAW/2



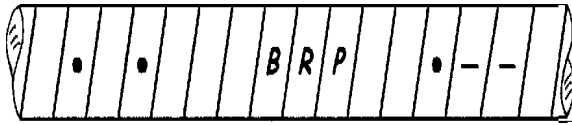
(THD1)

Bruapa Steel Industries Co., Ltd.



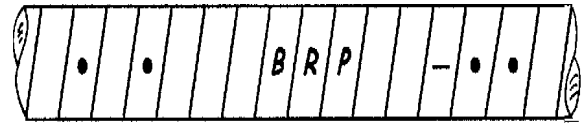
(THD6)

Bruapa Steel Industries Co., Ltd.



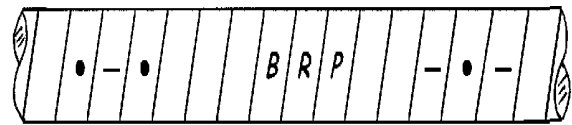
(THD2)

Bruapa Steel Industries Co., Ltd.



(THD7)

Bruapa Steel Industries Co., Ltd.



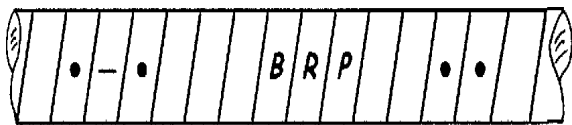
(THD3)

Bruapa Steel Industries Co., Ltd.



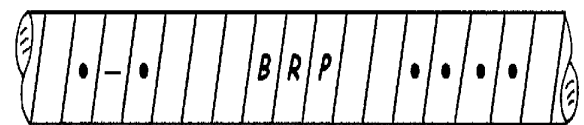
(THD8)

Bruapa Steel Industries Co., Ltd.



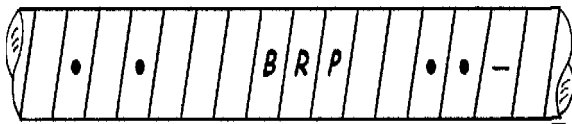
(THD4)

Bruapa Steel Industries Co., Ltd.



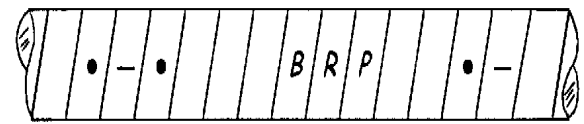
(THD9)

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 |
|------|----------|-----------|------|
|------|----------|-----------|------|

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| SCALE | N.T.S. | DRAWING NO. PWL/THD/1 |
| DATE | April 2026 | |



(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)

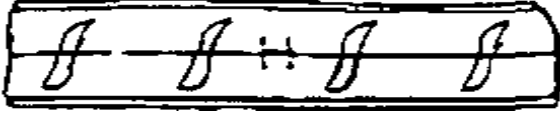
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

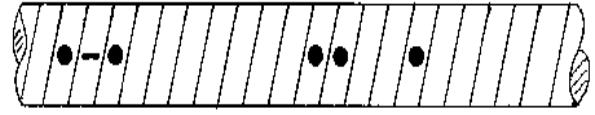
DRAWING NO.

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.

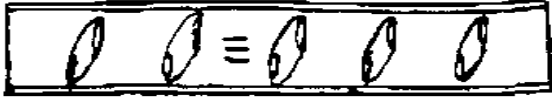
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

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

| Rev. | Revision | Signature | Date |
|------|----------|-----------|------|
|------|----------|-----------|------|

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| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
|--|--|--|--|

| | | | |
|-------|------------|-------------|--|
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | 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.



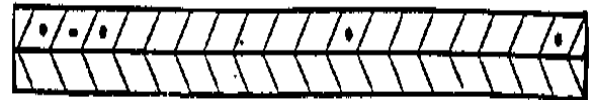
(TUK17)

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.)

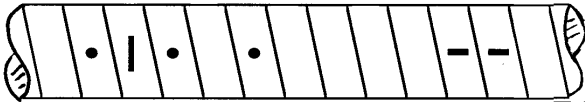
BAR PATTERN OF CONFIRMED ORIGIN
MANUFACTURED TO CS2 / BS4449:2005
TUK - TURKEY

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

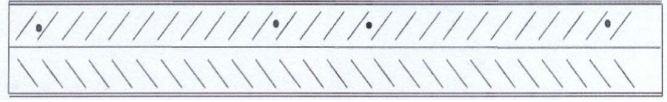
| Rev. | Revision | Signature | Date |
|------|----------|-----------|------|
|------|----------|-----------|------|

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| CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT Geotechnical Engineering Office Public Works Laboratories | | | |
|--|--|--|--|

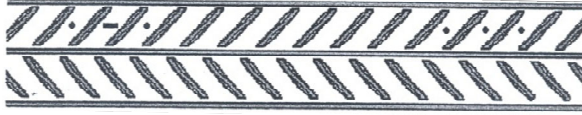
| | | | |
|-------|------------|-------------|--|
| SCALE | N.T.S. | DRAWING NO. | |
| DATE | April 2026 | PWL/TUK/2 | |



(TUK21)
CEBITAS Celik Endustrisi A.S.



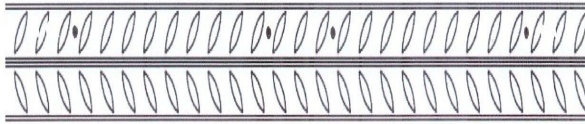
(TUK26)
Kaptan Demir Celik Endustrisi Ve Ticaret A.S.



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

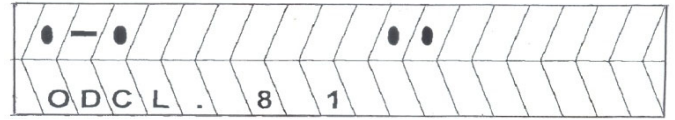


(TUK27)
Habas Sinai Ve Tibbi Gazlar Istihsal Endustrisi A.S.

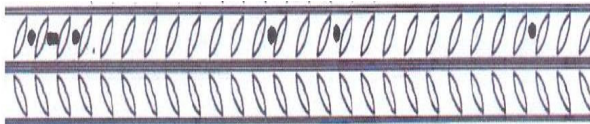


(●) mark /marks may be found on the
opposite side of the bar at random

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

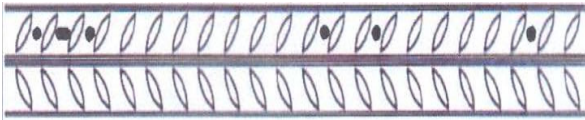


(TUK28)
Habas Sinai Ve Tibbi Gazlar Istihsal Endustrisi A.S.



(●) 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)

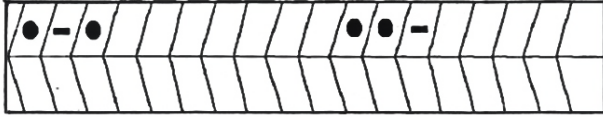
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

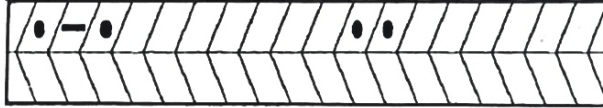
DRAWING NO.

PWL/TUK/3



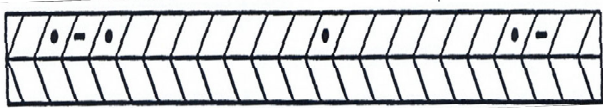
(TUK29)

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



(TUK30)

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



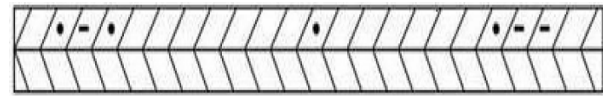
(TUK31)

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



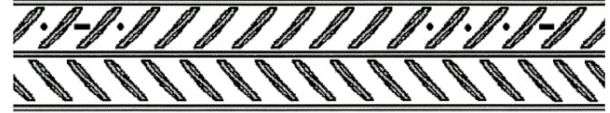
(TUK32)

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)

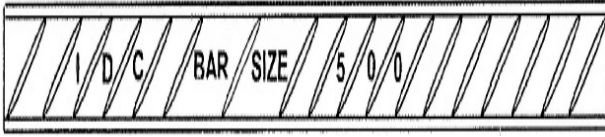
**CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories**

SCALE N.T.S.

DATE April 2026

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)

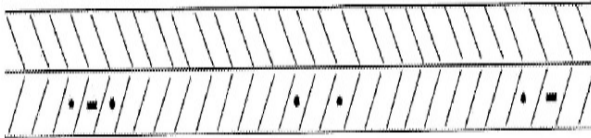
Bastug Metalurji Sanayi A.S.



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

(TUK36)

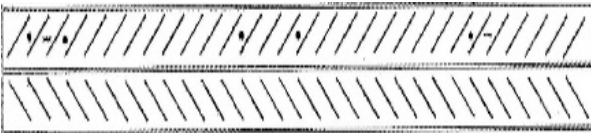
Akdemir Celik Sanayi Ve Ticaret A.S.



(●) 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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

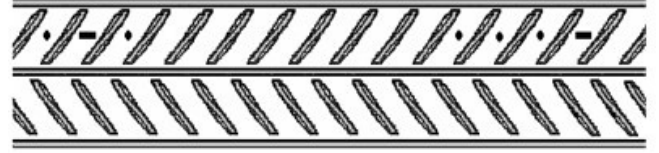
PWL/TUK/5



(●) 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.



(TUK45)

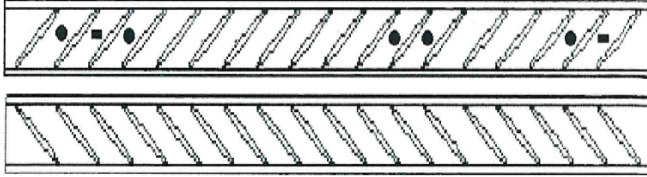
Diler Iron and Steel Co., Inc.



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

(TUK42)

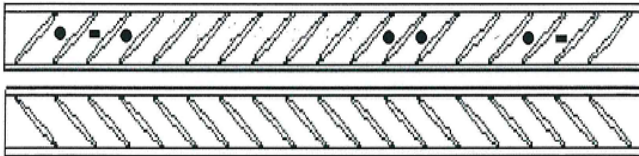
Yazici Iron & Steel Co., Inc.



(●) 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.

| | | | |
|------|---|------------|--------------|
| E | Coil of sizes 8, 10, 12 & 16mm were registered for bar pattern of TUK45 | H.L. LI | 20 Aug 2024 |
| 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)

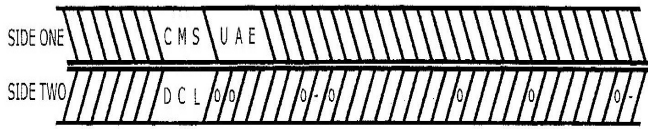
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

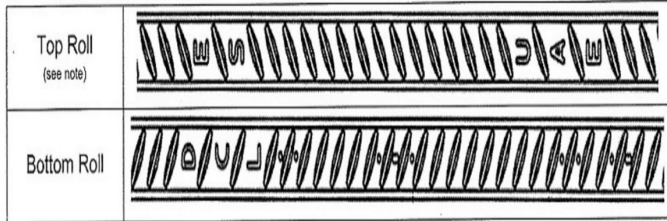
PWL/TUK/6



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

(UAE2)

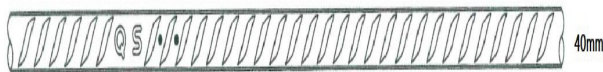
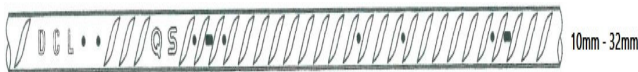
Conares Metal Supply Limited



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

(UAE3)

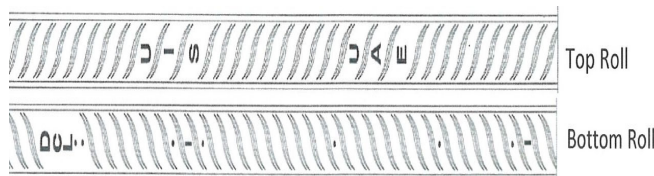
Emirates Steel Industries Co. PJSC



(●) 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.

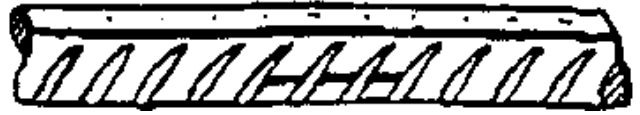
DRAWING NO.

DATE April 2026

PWL/UAE/1



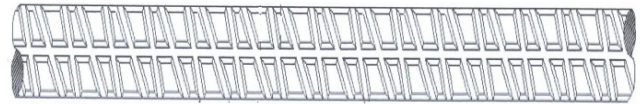
(UKD1)
Alphasteel Ltd.



(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)

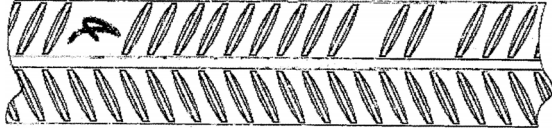
CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

| | | |
|-------|------------|--------------------------|
| SCALE | N.T.S. | DRAWING NO. PWL/UKD/1 |
| DATE | April 2026 | |



(UKR1)

Krivorozhsky State Owned Integrated Mining and Metallurgical Works "KRIVOROZHSTAL"



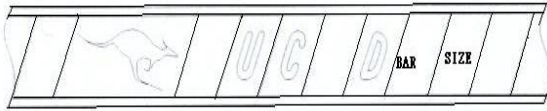
(UKR3)

PJSC "ArcelorMittal Kryvyi Rih"

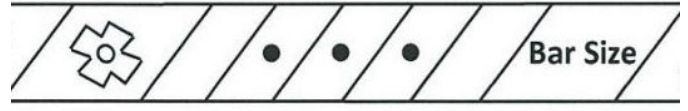
| | | | |
|------|--|------------|--------------|
| A | The bar sizes of 8, 10, 12, 16, 20, 25 & 32 mm were registered for new bar pattern of UKR3 | W.C. Leung | 27 June 2017 |
| Rev. | Revision | Signature | Date |

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 | April 2026 | |



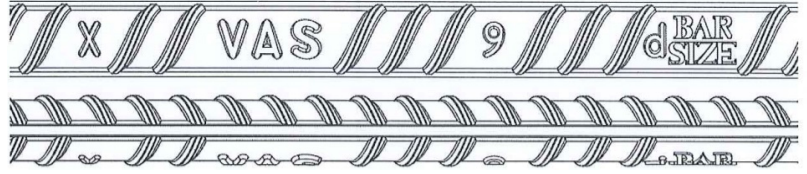
(VNM1)
SSESTEEL Ltd.



(VNM6)
Vina Kyoei Steel Company Limited



(VNM2)
Shengli Vietnam Special Steel Company Ltd.



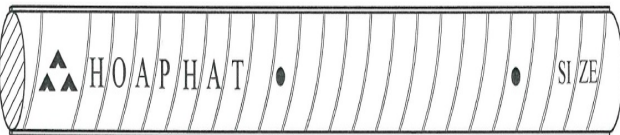
(VNM7)
VAS Group Nghi Son Joint Stock Company



(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)

CIVIL ENGINEERING AND DEVELOPMENT DEPARTMENT
Geotechnical Engineering Office
Public Works Laboratories

SCALE N.T.S.

DATE April 2026

DRAWING NO.

PWL/VNM/1