

# BC1:2023 Singapore Certification Scheme:

For Use of alternative structural steel to Eurocode 3

CLIENT INFORMATION NOTE

## What is it?

**BC1:2023 is Singapore's national code of practice for use of Alternative Structural Steel materials in BS EN 1993 Design of Steel Structures (Eurocode3). Steel materials not covered in Eurocode3 shall be allowed with our without restrictions as classified in BC1:2023 and only listed materials in Appendix A of BC1 code can be certified by FPC audits by a Conformity Body (CB) accredited by Singapore Accreditation Council (SAC) and will be classified as Class 1 steel materials as defined BC1. LRQA is having accreditation from SAC for certification of Alternative Structural Steel materials as per BC1: 2023 Code.**

Singapore Accreditation Council - Approval is must for delivering these services. LRQA Limited (Singapore Branch) is accredited by SAC, to conduct FPC audits and and it complies with CT-24 SAC Criteria for Certification Bodies (Alternative Structural Steel in BC1).

When requested by a manufacturer, LRQA shall check whether the manufacture has necessary resources (premises, personnel and equipment) to achieve conformity in production of the structural steel materials. Manufacturer shall demonstrate the conformity of their products to materials as listed in BC1.

## What we do?

LRQA undertakes FPC assessments as per Product Certification Schemes - ISO/IEC 17065 and CT24 SAC Criteria for Certification Bodies (alternative structural steel in BC1).

Initial audit includes, verifying the product testing carried out as per specified material standard and the result of product testing consistent with the relevant material performance requirements as listed in BC1.

The audit process includes validating the Initial Type Test (ITT) data and assessing Factory Production Control (FPC) management systems for certifying alternative listed steel materials for use in design code. Currently 6 national 's material codes are listed in BC1 (BS EN-Europe, ASTM - America, GB- China, JIS- Japan, AS/NZS- Australia/New Zealand and KS - Korea, for alternative structural steel certifications.

Assessment process comprising a Stage 1 audit to undertake gap analysis, followed by a Stage 2 audit. Stage 1 may be on-site or remote and Stage 2 is based on capability derived from ITT data and for verification of client's order, process inspections, records, and product testing, to meet FPC assessment criteria.

The duration of audits is based on an effective number of workers in the factory including subcontractors under the FPC system, types of steel manufactured, number of locations and the complexity of the processes.

Continuous surveillance is required at least once a year. During surveillance LRQA shall check the materials test certificates issued by the manufacturer for compliance to BC1.

An additional surveillance audit may be required if any new production lines are added, considerable change in key personnel, addition of new equipment and any changes to subcontracting scope which was originally assessed.

Certificate suspension will be recommend if any major nonconformities are noticed and a systematic minor nonconformities exist.

The manufacturer's approval certificate is issued for a period of 3 years with continuous surveillance. Change of certification scope, suspension and withdrawal process applies as per the ISO/IEC 17065 product certification scheme and CT24. Renewal of the certificate will go through a repeat audit process to cover all elements of the FPC system to maintain continuity.

LRQA maintains a certified manufacturer's list made available for public views for easy verification. The details include manufacturer's name, plant address, certificate expiry date, products scope audited. Additional information if any, local LRQA office can be contacted for more information.

# Certified manufacturers list - BC1: 2023. Issue date 16 Sep 2024

Sr. No.	Location	Certificate Number	Client Name	Plant Address	Product Scope	Certificate Validity
1	China	BJG6041035/A	Jiangsu Yongyi Fastener Co. Ltd	No. 6 South of Jinxing Road, Xingzhuang Village, Haitou Town, Ganyu District, Lianyungang City, Jiangsu Province, China	Structural bolting assemblies - Bolts, Nuts & Washers	28-Aug-27
2	Malaysia	BC-1/MUM/1910014/1	Wasco Pipe Sabah Sdn. Bhd	1 Jalan 4, KKIP Timur, Industrial Zone 13 (IZ13), KKIP, 88460, Kota, Kinabalu, Sabah Malaysia	Double Submerged Arc Welded (DSAW) Spiral Pipes	1-Nov-25
3	China	BJG00002529/A	North China Petroleum Steel Pipe Co. Ltd, yongzhou Subsidiary Company	Huangang Road, New And High-Tech, Industrial Development Zone, Yangzhou City, Jiangsu Province, 225128, P.R.China	Cold Formed Welded Structural Hollow Sections	13-Aug-27
4	China	BJG0000252/A	Tangshan Dianli Light Steel Product Co Ltd.	West Huanggezhuang Village, Fengrun Town, Fengrun District, Tangshan City Hebei Province. P.R.China	Hot Rolled Product of Structural Steels	24-Mar-27
5	Singapore	BC-1/MUM/PRJ11100511270/01	M Metal Pte Ltd	9 Tuas Avenue 2, Singapore 639449	Profiled Steel Sheets	18-Aug-27
6	Vietnam	BC-1/MUM/PRJ11100425670/1	J - Spiral Steel Pipe Co Ltd	Slope 47, Highway 51, Tam Phuoc ward, Bien Hoa City, Dong Nai Province, Vietnam	Spiral Steel Pipe and Steel Pipe Sheet Pile	10-Jul-27
7	Thailand	BC-1/MUM/0610039/2	Siam Yamato Steel Co Ltd.,	Maptaphut Facgtory: 9, i-7 Road, Maptaphut, Rayong, Thailand. Huaipong Facgory: 9/9, Soi G5, Huaipong, Rayong, Thailand	Hot Rolled Structural Steel(Hot Rolled sections and sheet piles)	24-Aug-27
8	China	BJG0061123/C	Angang Steel CO. Ltd	Tiexi District, Anshan City, Liaoning Porvince, P.R.China	Hot-dip coated steel sheets and coils	9-May-27
9	Korea	MUM/BC1/0710056/2	Hyundai Steel Company - Danjin Works	1480, Bukbusaneop-ro, Songak-eup, Dangjinsi, Chungcheongnam-do, 31719, Republic of Korea	Hot Rolled Structural Steels - Plate and Coil	16-Jul-25
10	China	BJG6053046/A	Laiwu Fangyuan Metal prodcuts Co. Ltd	Tuanli Village, Village North, Yanzhuang Street, Jinan City, Shangdong Province, China	Steel Hollow Sections	17-Sep-26
11	China	BJG0071129/B	Xinyu Iron & Steel Co. Ltd	No. 1, Yejin Road, Xinyu City, Jiangxi Province, China	Hot Rolled Plates & Strips (Coils)	17-Jun-27
12	China	BJG6023851/A	Tianjin Yuantaiderun Pipe Manufacturing Group CO. Ltd., Tianjin Yuantaiderun International Trade Co. Ltd.	No. 3 Hengtong Road, Industrial Areak Daquiuzhuang Town. Jinghai Section, Tianjin City, China	Steel Hollow Sections	22-Aug-27
13	China	BJG0071054/A	Hebei Jinxi Iron & Steel Group Co. Ltd	Santunying Town, Qianxi Cointy, Hebei Province, China	Hot Rolled Steel products	24-Aug-25
14	China	BJG0061094/A	Anyang Iron and Steel Co. Ltd	Meiyuanzhuang, Yindu District, Anyang City, Henan Procvince, China	Hot Rolled Steel products	11-Aug-26
15	China	BJG00001388/A	Hebei Haoxintal Steel Pipe Manufacturing Co Ltd.,	Puwacheng PARK, Yanshan Economic Development Zone, Cangzhou Citu, Hebei Province, China	Steel Product with Could Formed and Hot Finsihed Hollow Sections	20-Jun-27
16	China	BJG6053046/A	Laiwu Fangyuan Metal Prodcuts Co. Ltd	Tuani Village, Village North, Yanzhuang Street, Jinan City, Shangdong Porvince, China. NO. 2239 Shugang Stret, Culture Development Zone, Dongbel Town, Gaomi City, Shandong Province, China	Steel Hollow Sections	17-Sep-26
17	China	BJG00002535/A	Rizhao Steel Holding Group Co. Ltd	No. 600, Binhai Road, Lanshan DISTRICT, Rizhao City, Shandong Province, China	Hot Rolled Steel products	14-Jul-27
18	China	BJG00002493/A	Rizhao Steel Yingkou Medium Plate Co Ltd	Yejin Li, Yejin Street, Laobian District, Liaoning Province, China	Hot Rolled Steel Plates	7-Jul-27
19	China	BJG00002429/A	Tianjin Lefin Industrial Co. Ltd	Hengtai Road, Daquiuzhuang Town, Jinghai County, Tianjin City, China	High Frequency Welded Pipes	4-Apr-27
20	Vietnam	SEO2314314/A	JNJ Ind. Co. Ltd	N4 Street, Lot L, Loc An-Binh Son IP, Long An Commune, Long Thanh District, Dong Nai, Vietnam	High Strength Structural Bolting assemblies	25-Mar-27

## Get in touch

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