BCSA Limited is the national organisation for the steel construction industry: its Steelwork Contractor Members undertake the design, fabrication and erection of steelwork for all forms of construction in building and civil engineering. Industry Members are those principal companies involved in the direct supply to all or some Members of components, materials or products. Corporate Members are clients, main contractors, professional offices, educational establishments etc which support the development of national specifications, quality, fabrication and erection techniques, overall industry efficiency and good practice.

The principal objectives of the Association are to promote the use of structural steelwork; to assist specifiers and clients; to ensure that the capabilities and activities of the industry are widely understood and to provide members with professional services in technical, commercial, contractual, certification and health and safety matters. The Association’s aim is to influence the trading environment in which member companies have to operate in order to improve their profitability.

The Review covers the period July 2019 to June 2020

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Introduction

2020 marks my last year as BCSA President and in my final year I am very pleased to introduce David Moore as BCSA’s new Chief Executive Officer. I’m sure that David is well known to you and we can be confident that we are in safe hands, to expertly steer us through the next stages of our journey.

In my three years as President, and three years a Deputy, I have very much enjoyed working closely with the BCSA’s committed team and its dedicated members as the BCSA continues to help us shape a safer, better and fairer working environment for the constructional steelwork sector. During my presidency there have been challenges, some of which are still ongoing, not least of which is Brexit mapping the future trading relationship between the UK, the EU and the rest of the world and presently the global challenge of the Coronavirus pandemic.

The global effect of COVID-19 is still uncertain, and specifically how deeply and for how long it will directly impact us all in the construction sector. As I’ve said before, we are a resilient and agile sector and I feel certain that we will get through this. There is little doubt that the constructional steelwork sector will rise to the new norms and will very quickly adapt to change as it has in the past. Currently our focus is on continuing to provide members with the guidance, support and advice for their businesses and workforce to navigate as safely as possible our way through the Coronavirus pandemic.

In 2019/2020 we continued to work on behalf of our members on a number of initiatives driving the sector forward. Some of these achievements include:

- Successfully lobbying together with a number of key stakeholders in the construction sector to delay Government’s proposed introduction of reverse VAT. This galvanised effort by the sector successfully delayed the implementation to March 2021. BCSA continues to work on this matter. It may seem like a high priority to continue to drive high levels of performance and attitude within the sector by the ongoing development of two member resources, our behavioural-based safety improvement toolkit ‘Be Safe or Be Selfish Be Safe’ which covers over 28 topics and our safety improvement toolkit ‘Be Selfish Be Safe’ which covers over 28 topics and our series of ‘Tool Box Talks’ covering 45 topics.
- We have released a new study supported by Innovate UK which investigated the opportunities to increase construction sector productivity using offsite steel modules. This study demonstrated that compared to typical 2020 programmes and costs, multi-storey steel buildings can be constructed in shorter periods and at reduced costs if a largely offsite construction process is adopted.
- We have a voice and it seems to have been heard.
- For the history buffs, we also released a new publication ‘Historical Structural Iron and Steel Sections’ which looks at properties of historical cast iron, wrought iron and steel sections. It brings together information that up to now has only been available through historical documents that few Engineers have been able to access.
- Health & Safety as always, is a high priority we continue to drive high levels of performance and attitude within the sector by the ongoing development of two member resources, our behavioural-based safety improvement toolkit ‘Be Safe or Be Selfish Be Safe’ which covers over 28 topics and our series of ‘Tool Box Talks’ covering 45 topics which have been well received and are designed to assist supervisors at all levels to deliver safety related information.
- BCSA and its members continue to promote early contractual involvement with main contractors. By engaging early, the steelwork contractor can input to the design, often reducing costs, and even shorten the construction process. This is a message that we have been making for as long as I can remember and it’s because we clearly see the positive benefits.
- The BCSA steelwork contractor members:
  - Are the most highly paid and well-versed in the industry, chosen predominantly by main contractors to undertake various types and size of project.
  - Are pre-qualified to RIS 91.
- All members:
  - Have access to BCSA’s member resources and one-to-one advice, so they are up to date with changes to codes and standards.

Looking forward, we’re happy to soon be launching the updated National Structural Steelwork Specification and also to focus on helping the industry tackle the carbon challenge. Specifically, communicating some of the leading technologies being identified and implemented by our steelmaker members and disseminating information to the industry on steel and its circular economy attributes.

I’d like to thank all our members and sponsors who have supported me as President and whom continue to provide the financial and resources support for our Association to thrive. The contribution so many of you make to the Association and the industry is significant and is the reason BCSA is able to continue to support our members with some of the tools to keep ahead of the curve as best we can.

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BCSA 2019/20

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Dr David Moore
Chief Executive Officer

Tim Outteridge
President
**Commercial and contracts**

Widening knowledge of current commercial and legal issues to assist members in managing their contracts

BCSA’s commercial and contracts function provides help and support for members to improve their commercial position. It does this through the provision of direct advice and training of members, through projects initiated and managed by the Commercial and Contracts Committee, together with liaison with Government and industry bodies and by the provision of general guidance.

**Member Resources**

BCSA continues to develop further legal resources as a free member benefit and aims to widen access to and raise awareness of the member resources available on the website.

**Subcontract Terms and Conditions to Look Out For**

This spreadsheet, which allows members to track negotiations on their subcontract documents, gives a succinct summary of the implications of common onerous clauses and is regularly updated. Presentations on problematic contract clauses continue to be given at BCSA regional meetings.

**Model Letters and Documents**

A number of template letters and documents are available in the member area of the website, including model notices on suspension of works and early warning notices.

**Minimum Standards of Contract**

BCSA minimum standards recommendations for members have been updated. This is a guide to fair contract terms intended to help members in reviewing and drafting contracts, and will be available on the new website in 2020.

**Provision of Bespoke Guidance**

Members receive general contractual and legal information via several routes, including free contract reviews, memos on individual issues and legal/commercial updates, documents and checklists giving general information, and details of free helplines which are available on the members area of the BCSA website to assist members in managing their contracts.

**Retentions and Payment Issues**

BCSA members and staff continue to campaign against the retentions system and its abuses, and are taking full part in the UK government’s roundtable events set up after the recent consultation.

Among other payment issues, BCSA also lobbies for greater use, particularly in the public sector, of Project Bank Accounts, noting the great advances made in this area by the devolved Governments of Scotland, Wales and Northern Ireland.

**Reverse VAT**

BCSA, along with other trade associations, successfully campaigned to delay the planned implementation of reverse VAT beyond March 2021, which it was felt would have an adverse effect on members’ cashflow. BCSA is campaigning for a rethink of this legislation and for its further postponement or cancellation.

**Professional Indemnity Insurance**

BCSA members and the wider construction industry have weathered a perfect storm of insurance being unavailable, or huge increases in premiums, accompanied by higher demands from clients over the last 12 months and more. BCSA continues to liaison with industry and government on this issue and provide individual and general advice to members.
Process and technical

Assisting members to deliver quality, cost effectiveness and buildability

BCSA’s Process and Technical team supports its members by providing them with technical advice on a range of subjects, promoting Research and Technology Development (R&T&D) projects to create guidance and practical rules on the design and fabrication of structural steelwork, and participating on National and European code committees. BCSA’s Process and Technical Committee provided advice and support on the following in 2019/2020:

Advice to Members
BCSA continues to provide comprehensive technical advice and support to its member companies, clients, specifiers, designers and contractors. This ongoing service includes:
• Response to specific technical enquiries.
• Advice on Brexit and CE Marking.
• Advice on specifications and interpretation of design and execution standards.

BCSA steelwork contractor members also receive complimentary membership of The Steel Construction Institute (SCI) as part of their BCSA membership package.

Brexit and CE Marking
BCSA continued to provide advice on CE Marking to BCSA members and the wider construction industry. A supplement explaining UK Conformity Assessed Marking (UKCA) in the event of a no deal exit was published.

On the 31 of January 2020, the UK left the European Union (EU). Until the end of December 2020 the UK is in a status quo transition, whereby EU rules still apply. BCSA has had several discussions with the Ministry for Housing, Communities and Local Government and it is suggested that the following types of verification marks may be required from 1 January 2021:
• CE Marking, which will be acceptable in the UK and the EU for a limited time, based on the European approach with a Notified Body,
• UKCA Marking, which will be acceptable in England, Scotland and Wales, based on the UK approach with a Designated Body,
• UKCA Marking, which will be based on a Northern Ireland designated body.

BCSA also continued to lobby Government and Trading Standards to take a stronger approach to the policing of CE Marking.

Technical Strategy
BCSA continued to participate in the development of the European structural design and execution standards. All the European structural design standards, the Eurocodes, are being revised over the next three years and a new set will be issued from 2023 onwards. Once this work is complete, BCSA will update the current suite of 35 design guides. This will take several years and considerable resources.

Future projects
• Continue participation on BSI and CEN committees.
• Develop a series of technical webinars.
• Update of the Commentary on the 7th edition of National Structural Steelwork Specification.
• Develop a design guide on the fatigue design of crane supporting structures.
• Provide design guidance on special connections.
In 2019/20 BCSA and Steel for Life continued its programme of technical activities including:

1. Dynamic Wind Testing of Decking Sheets
   The aim of this project is to determine the loads taken by individual fixings connecting the decking to the steelwork in a 1 in 50-year storm. Five dynamic wind tests were completed last year and a design guide has been developed to provide a simple method for identifying (i) the locations in the UK, and (ii) the building height in which the decking with the different tested configurations can be used. Guidance is based on the so-called canopy model adopted in BS EN 1991-1-4, but it has been recognised that this model may not be sufficiently accurate for decking. A new series of wind tunnel tests on a scaled model of a multi-storey building has been devised to propose a more appropriate model. The design guide will be revised accordingly.

2. Design and Execution Recommendations for High Strength Steels
   BCSA is a partner in a European-funded project (coordinated by the SCI) to (i) summarise and extend the design rules in the revised Eurocode 3, and (ii) supplement provisions in the execution standard BS EN 1090-2:2018 for steel grades up to and including S700. The first draft of this guide was circulated in 2019 and the final version was published in June 2020.

3. A Welding Guide for S700
   BCSA has recently published a new welding guide for high-strength steels up to S700. The guide describes the advantages of using steels with yield strengths greater than 355 N/mm² (S355), and sets out the requirements for the welding and fabrication of steel grades up to and including S700.

4. Deflection limits for mega-sheds
   BCSA is supporting a four-year PhD student at Imperial College London to carry out research into the deflection limits for mega-sheds with different cladding systems.

5. Lifting accessories
   BCSA has published a guide on the CE Marking of lifting accessories. The guide is in line with the Machinery Regulations and gives guidance on the design of lifting accessories and development of the supporting ‘Technical File’. The guide also includes a series of worked examples.

National Structural Steel Specification
The 7th edition of the NSSS will be published in 2020. This revised edition includes the following main changes:

- Consistency with BS EN 1090-1, BS EN 1090-2 and BS EN 1090-4.
- Mandatory Welding Quality Management certified to BS EN ISO 3834 for Execution Classes 2 and 3.
- New sub-section on Intumescent Systems.
- New sub-section on Corrosion Protection.
- New annex on the requirements for Execution Class 3 – Static.
- New annex on the requirements for Execution Class 3 – Fatigue.

Although the NSSS will be published in Summer 2020, it will not become mandatory until the end of 2020 in order to allow steelwork contractors to put in place a Welding Quality Management system certified to BS EN ISO 3834.

Publications
In 2019/20 BCSA published the ‘Historical Structural Iron and Steel Sections’, publication which gives section properties of historical cast iron, wrought iron and steel sections. Written by Dr David Gant, this publication brings together information that up to now has only been available through a variety of historical documents that few engineers have been able to access or locate. The publication is invaluable in assisting investigations to determine the:

- Probable material (ie cast iron, wrought iron or steel).
- Technical properties of the different members.
- Origin of the members.
- Strength of the material from which the members were made.
The www.steelconstruction.info website was updated regularly with the latest technical information and case studies and continues to be an excellent source of information on steel construction for the wider construction industry.

New articles and content added in 2019/20 included:

- Project case studies.
- Advisory Desk Notes.
- Articles covering the cost of structural steelwork which have been updated quarterly.
- Details of the 2019 SSDA winning projects.
- The fourth NSC Technical Digest.
- Steel for Life press supplements in Construction Manager, New Civil Engineer, and Building magazine.
- Steel construction – Education Buildings supplement.

Over the year, approximately 50% of the entire content of the website has been reviewed and updated as part of a formal maintenance programme to ensure that technical information on the website remains up to date.

The website receives a monthly average of 200,000 visits.

**Codes and Standards**

BCSA is represented on key BSI, CEN and European Technical Committees, and strives to provide practical advice to shape and influence (i) the development of new codes and standards, and (ii) the maintenance of existing codes and standards. These standards include:

- National and European design and execution (fabrication and erection) standards.
- Product standards, including bolts and welds.
- Harmonised standards for CE Marking.

Key development in these standards in 2019/20 include:

- EN 1993-1-1: General rules and rules for buildings was complete at the end of December 2019 and will be circulated for CEN Enquiry in September 2020.
- The final version of EN 1993-1-8: Design of joints was sent to CEN/TC250/SC3 for review and technical vote in March 2020. It is anticipated that this standard will be circulated for CEN enquiry in March 2021.
- CEN/TC135 has agreed to issue the revised version of EN 1090-1: CE marking standard for steel and aluminium structures for formal vote in 2020.
A spotlight on sustainability has developed rapidly over the past 12 months with the focus firmly placed on carbon reduction. The construction industry has a major part to play in this drive to net-zero carbon. We need to do more with less; maximise the efficient use of resources and move towards a truly circular economy. This is the Whole Life Carbon Strategy, and the Paris Agreement brings carbon reduction into focus.

Steel is well-placed to play a crucial role in reducing the environmental impact of construction, and the shift in emphasis towards a reduction in carbon emissions is the major factor, and one most likely to have the best impact.

Supporting the Carbon Challenge

Steel is manufactured by two production routes, Basic Oxygen Steel (BOS) and Electric Arc Furnace (EAF), which together comprise a single global system of supply to meet world demand. Both production routes include significant recycled content.

Energy consumption and carbon dioxide emissions from European steelmaking have already been reduced by 50% and 60% respectively over the past 40 years. European steel manufacturers are currently leading the way in developing breakthrough technologies that will support ‘science-based targets’ and enable a global transition to a low-carbon economy.

Future projects

- Support industry’s effort in addressing the Carbon Challenge.
- Develop and promote an updated BCSA sustainability strategy.
- Update BCSA existing carbon footprinting tool for fabricated steelwork.
- Promote the Steel Construction Sustainability Charter as a route for the responsible sourcing of structural steelwork.

The Fabricator, Robotic welding machinery - Voortman Steel Machinery

Data Centre, Antwerp - Kiernan Structural Steel Ltd

Winchester Leisure Centre - Snashall Steel Fabrications Co Ltd

Recycled tubes used in bridge repair at Grinton Moor supplied by Cleveland Steel & Tubes Ltd
Reuse of Steel and the Circular Economy

The unique characteristic that steel can be recycled or reused endlessly without detriment to its properties gives steel a high value at all stages of its life cycle. Steel is the world’s most recycled material.

99% of structural steel used in the UK is either reused or recycled, waste is minimal to non-existent and steel is multi-cycled, meaning that it can be used again and again without any loss of quality.

Steel reuse can happen in three ways:

- **In-situ reuse**: in which the structural frame is reused, with or without alterations, in situ. This is generally associated with refurbishment projects and it is currently the most common way of reusing structural steel in the UK.
- **Relocation reuse**: this involves deconstruction of an existing steel frame, which is then transported and re-erected, generally in its original form, at a different location for the same or similar purpose.
- **Component reuse**: which involves careful deconstruction of an existing structure where individual structural steel members are reclaimed and used to construct a new permanent structure.

BCSA has continued to assist with developing a greater understanding of the routes to market for reused and recycled steel in construction. The Steel Construction Institute (or The SCI) has recently released a document detailing the protocol for steel reuse.

Additional Benefits of Steel

In addressing the Climate Emergency it is important not to forget some other sustainability benefits of steel, such as:

- Steel buildings are adaptable and flexible offering future-proofed solutions.
- Almost all steel-framed buildings can provide optimal thermal mass.
- Steel structures are significantly lighter than concrete equivalents, requiring less extensive foundations, which reduces the environmental impact of the build.
- Long-span steel solutions provide flexible clear span spaces that future-proof a building, offering an increased lifetime.

BCSA Sustainability Group

The BCSA’s Sustainability Group exists to anticipate the threats and opportunities for the steel construction sector, it also assists the structural steelwork supply chain to meet the sustainability requirements of clients.

The Group continues to meet regularly and contributes to BSI Committee B/558 ‘Sustainability of construction works’ which inputs the views of the UK into CEN committees.

To address the carbon challenge a review of BCSA’s Sustainability strategy commenced in late 2019.

Sustainable Procurement

Responsible sourcing continues to drive sustainable procurement which includes sustainable supply chains, measuring the circular economy and social value assessment on new projects. Steelwork is well placed to meet these challenges. BCSA continues to assist members in complying with the requirements of their clients and various schemes.

Some clients require that their contractors and suppliers are accredited to or comply with a scheme in connection with sustainable procurement. Purchasing steel from a BES 6001 Framework Standard for the Responsible Sourcing of Construction Products certified supplier should be sufficient for steelwork contractors in accordance with most client stipulations. However, a number of steelwork contractors have chosen to become certified to BES 6001 or to the BCSA’s Sustainability Charter.
Health and safety

Sharing experience and knowledge to ensure good working practices and reduce health and safety incidents

Health and injury

The Accident Frequency Rate (AFR) rate for 2019 was 0.3 for BCSA Members based on the injuries reported under the Reporting of Injuries, Diseases and Dangerous Occurrences Regulations. The rate shows an improvement from 2018 and demonstrates that BCSA Members are addressing the issues raised by the Health and Safety Committee.

The drive to reduce injuries in the constructional steelwork industry has been a focus of BCSA’s Health and Safety Committee members. This is achieved by identifying injury trends and then sharing members’ combined knowledge to develop good practice guidance.

Behavioural Based Safety Programmes

BCSA introduced the ‘Be Selfish Be Safe’ programme that has a simple message that can be adopted by the workforce and, as a result, should be self-driven. In this programme, the workforce identifies the risk and it then becomes the role of the supervisor to address that risk (with the support of managers where necessary). The workforce will then see that they have direct influence over the safe application of their task, and that they have been made the ‘masters of their own fortune’. So, the message is to be ‘selfish’ when it comes to your own health and safety.

To support further improvement, the Health and Safety Committee introduced monthly health and safety themes that can be used in the workplace as toolbox talks and posters to ensure the programme is given a high profile and actively supported.

Future projects

- Maintain and support the ‘Be Selfish Be Safe’ programme.
- Develop supporting materials for the Common Assessment Standard.
- Continue with a programme to develop appropriate Health and Safety publications and guidance.
- Review the industry accident data for trends to be addressed by the Health and Safety Committee.

Health and Safety Forums

BCSA works with other Trade Associations to establish common areas of health and safety concern. The following Forums are actively attended:

- Specialist Engineering Contractors Health and Safety Group (SEC).
- Engineering Construction Industry Association (ECIA).
- Metal Industry Liaison Group (EIA).
- Small Business Trade Association Forum (SBTAF).
- Royal Society for the Prevention of Accidents (RoSPA).
- Institution of Occupational Safety and Health (IOSH).
- Safety Schemes in Procurement (SSIP).
- Weld Fume Health Partnership Forum (HSE).

Health and Safety Prequalification

BCSA is a registered member of the Safety Schemes in Procurement (SSIP). This is an umbrella organisation for prequalification schemes that offers mutual recognition. The benefit to Members is that the membership assessment also includes a health and safety assessment that is recognised by all of the other SSIP registered organisations, so if a Member needs to register with another scheme that is also SSIP registered the BCSA / SSIP assessment certificate (includes the SSIP logo) can be used as the evidence to show they have already met the health and safety core criteria.

To maintain the registered membership status BCSA is audited each year to ensure that its Members meet the minimum health and safety requirements known as the ‘core criteria’ for health and safety.

BCSA has worked with the industry body Build UK on the establishment of the Common Assessment Standard (CAS), which is intended to become the one scheme used by all those working in construction, instead of the myriad of different versions that are preferred by the various main contractors. The CAS will be the standard.
Training

Supporting a skilled and qualified workforce

CRAFT Apprenticeship Scheme
BCSA’s CRAFT scheme is an industry approved training programme developed by the industry. CRAFT offers training and career opportunities to attract new entrants into the industry. It can be used by the employer to assist with the development of the trainee where no local training provider or facilities are available. CRAFT can also be used to establish internal practical training over a set timescale. It will provide an industry standard of competence that can be achieved through workplace coaching and validation. The training modules meet the competency standards in the National Structural Steelwork Specification for building construction.

CRAFT Training and E Learning:
The tables below show the total number of CRAFT trainees:

<table>
<thead>
<tr>
<th>CRAFT Course</th>
<th>Number Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fabricator Welder</td>
<td>97</td>
</tr>
<tr>
<td>Steel Detailer</td>
<td>5</td>
</tr>
<tr>
<td>Welder</td>
<td>13</td>
</tr>
<tr>
<td>Surface Treatment</td>
<td>11</td>
</tr>
<tr>
<td>Metal Decking (experienced worker - first Cert. 17/06/16)</td>
<td>158</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>284</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E learning</th>
<th>Number Enrolled</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bolting</td>
<td>195</td>
</tr>
<tr>
<td>BIM</td>
<td>19</td>
</tr>
<tr>
<td>Welding</td>
<td>41</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>255</strong></td>
</tr>
</tbody>
</table>

Since the launch of CRAFT, 169 trainees have been registered by BCSA member companies, of which 109 have completed the course and are employed in a permanent capacity with the company they trained with.

BCSA will continue to ensure that the scheme is focused on the principles of validation and raises standards in the constructional steelwork sector.

The five trades currently covered by the CRAFT training scheme are:

<table>
<thead>
<tr>
<th>CRAFT</th>
<th>Number of Modules</th>
<th>Duration</th>
<th>Meets Trailblazer Standard</th>
<th>End Point Assessment</th>
<th>Experienced Worker Assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welder Fabricator</td>
<td>12</td>
<td>2 years</td>
<td>Yes</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Steel Welder</td>
<td>8</td>
<td>2 years</td>
<td>Yes</td>
<td>Available</td>
<td>Available</td>
</tr>
<tr>
<td>Metal Decking Installer</td>
<td>8</td>
<td>18 months</td>
<td>n/a</td>
<td>n/a</td>
<td>Available for CSCS Cards</td>
</tr>
<tr>
<td>Structural Steel Detailer</td>
<td>10</td>
<td>2 years</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>Surface Treatment</td>
<td>7</td>
<td>18 months</td>
<td>n/a</td>
<td>n/a</td>
<td>n/a</td>
</tr>
</tbody>
</table>

Steelmaking at British Steel Ltd

One Bank Street, London – William Hare Ltd
Steel Detailer Course
In January BCSA and Trimble Solutions (UK) Ltd agreed to introduce an electronic based assessment to monitor the CRAFT learning modules. Trimble Solutions (UK) Ltd has mapped the BCSA Modules to ensure they can provide models. Trimble Solutions (UK) Ltd have recently introduced E learning modules in the Tekla Academy which will help the trainees as they work through the BCSA Modules. This has been supported through a feedback facility under a trainee licence.

Trailblazer Programme
The Trailblazer Programme is a government initiative to develop training standards for apprenticeships. Trailblazer standards form the backbone of the government’s new apprenticeship framework and must be written by employer groups.

The End Point Assessment Plans and the Standards are now available for approved training providers to work with employers to deliver the training with funding via the government apprentice levy system.

The following Trailblazer Standards, which have been developed by BCSA employer groups, are available for training providers to use:

• The Structural Steelwork Fabricator Standard: Level 2 (£5K) 24 Months www.instituteforapprenticeships.org/apprenticeship-standards/structural-steelwork-fabricator/
• The Industrial Coatings Applicator Standard: Level 2 (£9K) 18 Months www.instituteforapprenticeships.org/apprenticeship-standards/industrial-coatings-applicator/
• The Structural Steelwork Erector Standard: Level 2 (£9K) 24 Months www.instituteforapprenticeships.org/apprenticeship-standards/structural-steelwork-erector/

Future projects
• BCSA will continue to promote industry specific training and encourage other trade associations to adopt the training.
• On-going consideration of new CRAFT courses depending on where access to industry specific training is limited.
Steel for Life

Celebrating and promoting the success of structural steelwork to ensure that it remains the material of choice

About Steel for Life
Steel for Life’s key objective is to promote the advantages of steel as a construction material, and the features that make steel the framing material of choice for a wide range of buildings, bridges, and other structures. Steel for Life is governed by an independent Advisory Board, comprising BCSA members and headline sponsors.

Having completed its fourth full year of operation, Steel for Life is engaging with clients, architects, engineers, main contractors, and cost consultants, providing them with knowledge, support, and tools for specifying and designing in steel.

Steel for Life undertook significant marketing activities in 2019/20:

- Structural Steel Design Awards

The objective of the Structural Steel Design Awards (SSDA) is to recognise and celebrate the excellence of the UK and the Republic of Ireland in the field of steel construction, particularly demonstrating its potential in terms of sustainability, efficiency, cost-effectiveness, aesthetics, and innovation.

Entries for the Awards continue to demonstrate increasingly high standards, not only in design and fabrication, but also in speed, quality, health and safety, and environmental awareness.

The independent judging panel visits each of the shortlisted entries to ensure that the project lives up to the promise shown by the entry on paper.

The Awards have made a significant contribution to the high market share of steel-framed construction.

Future projects

- October 2020 will see the 52nd Structural Steel Design Awards, jointly sponsored by BCSA and Trimble Solutions (UK) Ltd.

- Steel Network – Steel for Life continues to build its specifier contacts through its CPD activities in the construction press, with further CPD articles planned for 2020 in Construction Manager, Architecture Today, and The Structural Engineer.

- Sustainable steel – a special supplement and promotional campaign is planned for 2020 to demonstrate how steel can help the construction industry drive to ‘zero carbon’ and deliver a truly circular economy.

The magazine is also available digitally on www.newsteelconstruction.com

The Structural Steel Design Awards (SSDA) is a joint initiative of BCSA, the SCI, and Trimble Solutions (UK) Ltd, and is open to all UK and Irish projects.

The Awards have made a significant contribution to the high market share of steel-framed construction.
A number of regular steel construction features are now well established with the leading construction press. These aim to highlight the benefits of structural steel to the specifier target audience. A library of these features and guides can be found at www.steelconstruction.info/Steel_construction_news.

- **Coating Steelwork** – a quarterly feature in Building magazine, written by AECOM, to assist quantity surveyors with up-to-date information and guidance on the realistic pricing of structural steelwork. It also presents a series of cost comparisons covering five building types. This received a 15,000 circulation and 60,000 total distribution.

- **Building Magazine CPD Modules** – a series of written CPD modules which contains a full technical article followed by a multiple-choice questionnaire. The series covers sustainable steel buildings, steel and fire protection; costing structural steelwork, steel and offshore construction and corrosion protection. Over 8,000 building professionals have completed the CPD articles since their launch in 2017.

- **Structural Steelwork in Action** – a 10-page annual supplement in New Civil Engineer, the membership magazine of the Institution of Civil Engineers with a 42,000 circulation.

- **Construction Manager** – a 12-page special feature showcasing the projects recognised in the 2019 SSDA was included in Construction Manager, the official publication of CIOB members that has a 31,500 circulation.

- **Steel Construction Education Buildings** – this supplement, distributed with the main UK construction press in early 2020, gives an overview of the education buildings sector and explores the reasons why steel frames are favoured for education buildings.

**Steel Essentials Seminar**
Steel for Life held a Steel Essentials seminar in Manchester in October 2019, which was attended by over 30 specifiers. These half-day seminars covered, steel construction options, efficient steel design, design performance, steel specification, budget costing and design resources.
Selecting a Steelwork Contractor

To select a steelwork contractor for tender lists there is no easier way of prequalifying companies than using the BCSA Membership Directories for Buildings and Bridgeworks, which can be found on www.steelconstruction.org/directories.

The Directories should be used to select a steelwork contractor who has the special skills to suit your project. BCSA’s experienced professional assessors visit all companies to assess their capabilities in 14 Categories of building steelwork and 11 Subcategories of Bridgeworks construction.

The Categories give guidance on what type of steelwork the company is competent to undertake, which relates to the company’s work facilities, its track record and its technical and management experience. Each applicant is independently assessed during a visit by reference to a range of competence criteria including technical and managerial. Companies can attain just one category, for one type of steelwork, or two or more.

The Directories also classify companies by suggesting a maximum contract value that they should handle. The Class gives guidance on the size of steelwork contract which the company has the financial and management resources to undertake. There are 14 steelwork contractor member companies of the BCSA, and this provides users with plenty of choice to ensure a competitive tender list. Membership of BCSA is open to any steelwork contractor who has a fabrication facility within the United Kingdom or the Republic of Ireland. See www.steelconstruction.org/directories/buildings.html.

Demonstrating competence and registering capability, resulting in improved service and client confidence
Buildings Categories:
C  Heavy industrial platework for plant structures, bunkers, hoppers, silos etc.
D  High rise buildings (offices etc over 15 storeys)
E  Large span portals (over 30m)
F  Medium/small span portals (up to 30m) and low rise buildings (up to 4 storeys)
G  Medium rise buildings (from 5 to 15 storeys)
H  Large span trusswork (over 20m)
J  Tubular steelwork where tubular construction forms a major part of the structure
K  Towers and masts
L  Architectural steelwork for staircases, balconies, canopies etc.
M  Frames for machinery, supports for plant and conveyors
N  Large grandstands and stands (over 5000 persons)
Q  Specialist fabrication services (eg bending, cellular/castellated beams, plate girders)
R  Refurbishment
S  Lighter fabrications including fire escapes, ladders and catwalks

Details of company in each sub-category can be found at: www.steelconstruction.org/directories/buildings.html

Selecting a Product Supplier
Industry Members are those principal companies involved in the direct supply to all or some Members of components, materials or products.

Sub-categories of industry membership are as follows:
•  Computer software
•  Design services
•  Manufacturing equipment
•  Protective systems
•  Safety systems
•  Steel producers
•  Steel stockholders
•  Structural components
•  Structural fasteners
•  Welding equipment and consumables

Details of company in each sub-category can be found at: www.steelconstruction.org/directories/products-and-services.html
The Register of Qualified Steelwork Contractors Scheme for Bridgeworks (RQSC) is open to any Steelwork Contractor who has a fabrication facility within the European Union. In order to be registered for Bridgeworks, a company must present references for completed supply and erect contracts that include at least three bridgework contracts (or contracts of similar complexity), of which two must each exceed £100,000 contract value completed within the last three years.

The company must have manufactured in-house at least 75% of the steelwork for each of the three contracts. The contracts must have required materials and workmanship to recognised bridgework standards. At least one of the contracts must generally have required thick plate welding such as the butt welding of S355J2 plate in a thickness of at least 40mm.

The company’s track record and the company’s systems, existing facilities and employed personnel will be used to establish its capability. Companies can attain just one category, for one type of bridge steelwork, or two or more.

**Bridgeworks Categories:**

- **FB** Footbridges
- **CF** Complex footbridges
- **SG** Sign gantries
- **PG** Bridges made principally from plate girders
- **TW** Bridges made principally from trusswork
- **BA** Bridges with stiffened complex platework (eg in decks, box girders or arch boxes)
- **CM** Cable-supported bridges (eg cable-stayed or suspension) and other major structures (eg 100 metre span)
- **MB** Moving bridges
- **FRF** Factory bridge refurbishment
- **SRF** On site bridge refurbishment
- **AS** Ancillary structures in steel associated with bridges, footbridges or sign gantries (eg grillages, purpose made temporary works)

Highways England Company Ltd, Transport Scotland and Northern Ireland’s Department for Regional Development require that companies seeking to tender for contracts involving the fabrication and erection of bridgeworks should be listed on the Register of Qualified Steelwork Contractors for the type and value of work to be undertaken. See [www.steelconstruction.org/directories/bridges.html](http://www.steelconstruction.org/directories/bridges.html)
Steel Construction Certification Scheme

Certification Services – 2019/20
Demand for SCCS certification services continues to grow. All Quality Management (QMS), Environmental Management (EMS) and Occupational Health & Safety Management (OHSMS) certification re-assessments and surveillance visits scheduled for 2019/20 were successfully completed.

In addition, the initial and ongoing assessments for new QMS, EMS, OHSMS, WQMS, Factory Production Control (FPC) and National Highways Sector Schemes (NHSS) clients were completed during the year.

During 2019/20 SCCS continued to work alongside Highways England on the issues related to NHSS 3, NHSS 3B, NHSS 19A and NHSS 20 standards. SCCS continues to be recognised as the lead Certification Body for National Highways Sector Schemes 3, 3B, 19A and 20.

The voluntary certification audits for site installation compliance to BS EN 1090-2:2008+A1:2011 continued during 2019/20. SCCS actively attended the UK and European Sector Group 17 meetings of Notified Bodies, the NHSS Sector Scheme 3 meetings and the NHSS Liaison Group meetings and the NHSS Certification Body Group meetings during 2019/20.

UKAS Accreditation

SCCS also maintained Notified Body status for the purposes of CE Marking of Structural Steelwork in accordance with BS EN 1090-1.

Quality Management (QMS) BS EN ISO 9001:2015
In 2019/20, SCCS serviced the certification of 194 separate quality management systems, each of which is visited at least once per year. On 06 February 2020 there were 12 new clients pending QMS certification.

The need for structural steelwork contracting organisations to address the requirements for CE Marking (BS EN 1090-1), and Factory Production Control (FPC), continues to attract additional interest in the development of formal quality management systems.

Environmental Management (EMS) BS EN ISO 14001:2015
SCCS serviced the certification of 49 separate environmental management systems in 2019/20. On 06 February 2020 there were six new clients pending EMS certification.

Environmental management is an area that should not be overlooked by companies as there are legal obligations to maintain and a well operated EMS will provide the tools to keep on top of these legislative requirements.
Health & Safety (OHSMS)  
BS OHSAS 18001:2007 / BS EN ISO 45001:2018

In 2019/20, SCCS serviced the certification of 40 separate health and safety management systems. On 06 February 2020 there were seven new clients pending OHSMS certification.

This is another area in which steelwork contractors have considerable legal obligations, and a well operated OHSMS will also give companies the tools to keep on top of legislative requirements.

Welding Quality Management System (WQMS) BS EN ISO 3834:2005

In 2019/20, SCCS serviced the certification of 16 separate welding quality management systems. On 06 February 2020 there were three new clients pending WQMS certification.


In 2019/20, SCCS serviced the certification of 512 Factory Production Control systems. On 06 February 2020 there were ten new clients pending FPC certification.

NHSS 3 – ‘stocking and distribution activities for mechanical fasteners’

In 2019/20, SCCS serviced the certification of one management system for this sector scheme.

NHSS 3B – ‘stocking and distribution activities for structural steel products’

In 2019/20, SCCS serviced the certification of 13 management systems for this sector scheme. On 06 February 2020 there was one new client pending NHSS 3B certification.

NHSS 19A – ‘corrosion protection of ferrous materials by industrial coatings’

In 2019/20, SCCS serviced the certification of 13 separate corrosion protection management systems in accordance with NHSS 19A.

NHSS 20 – ‘the execution of steelwork in transportation infrastructure assets’

In 2019/20, SCCS serviced the certification of 38 management systems for this sector scheme. On 06 February 2020 there were two new clients pending NHSS 20 certification.

CE Marking – ‘Preloaded and non-preloaded bolting assemblies’ (FPC Bolting) BS EN 14399-1:2015 & BS EN 15048-1:2007

In 2019/20, SCCS serviced the certification of three Factory Production Control systems for ‘Preloaded and non-preloaded bolting assemblies’ (FPC for Bolting).

SSIP – ‘Safety Scheme In Procurement’

In 2019/20, SCCS serviced the certification of four standalone management systems for this scheme. On 06 February 2020 there were two new clients pending SSIP certification.

Future Developments

SCCS is currently awaiting feedback from UKAS regarding the following accreditation areas:

• BS ISO 19442:2018 Quality management systems – Specific requirements for the application of ISO 9001:2015 by organisations in the supply chain of the nuclear energy sector supplying products and services important to nuclear safety (ITNS).

• BS EN ISO/PAS 1:2018 Organisation and digitisation of information about buildings and civil engineering works, including building information modelling (BIM) – Information management using building information modelling.

• BS EN ISO/IEC 17065:2012 Conformity assessment, Requirements for bodies certifying products, processes and services.

Wellington Place, Leeds – Billington Structures Ltd

Dundonald Church, London – TSI Structures Ltd

Wuxi Biologics, Dundalk – Kiernan Structural Steel Ltd
Market share of Constructional Steelwork

Steel’s Share of UK Multi-Storey Non-Residential Market

Consumption of Constructional Steelwork

UK Consumption of Constructional Steelwork

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<td>792</td>
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Figures in thousand tonnes
Figures supplied by BCSA and Steel for Life
Members Listing

Steelwork contractors for buildings

Member companies that undertake the design, fabrication and erection of steelwork for all forms of construction in building and civil engineering.

A C Bacon Engineering Ltd
www.acbacon.co.uk

Adley Steel Ltd
www.adleysteel.co.uk

Adtomo Construction Ltd
www.adtomo-construction.co.uk

Advanced Fabrications Poyle Ltd
www.advancedfabricationspoyle.co.uk

AJ Engineering & Construction Services Ltd
www.ajengineering.co.uk

Angle Ring Company Ltd
www.angling.com

Armhill Engineering Ltd
www.armhill.co.uk

Armin Sturctures Ltd
www.arminmax.co.uk

ASME Engineering Ltd
www.asmeengineering.co.uk

Atlassco Constructional Engineers Ltd
www.atlassco.co.uk

B D Structures Ltd
www.bdstuctures.co.uk

Ballykine Structural Engineers Ltd
www.ballykine.com

Barnshaw Section Benders Ltd
www.barnshaws.com

BHC Ltd
www.bhc.ltd.uk

Billington Structures Ltd
www.billington-structures.co.uk

Border Steelwork Structures Ltd
www.bordersteelwork.co.uk

Bourne Group Ltd
www.bourngroup ltd

Briton Fabrications Ltd
www.briton.co.uk

Caithnibh Structures Ltd
www.caithnibhstructures.co.uk

Caulton Engineering Ltd
www.caulton.co.uk

Cementation Fabrications
www.cementation.co.uk

Cleveland Bridge UK Ltd
www.clevelandbridge.co.uk

CMF Ltd
www.cmf.co.uk

Cook Fabrications Ltd
www.cookfabrications.co.uk

Coventry Construction Ltd
www.coovcon.co.uk

D H Structures Ltd
01785 246269

D Hughes Welding & Fabrication Ltd
www.dhwestco.uk

Duggan Steel
www.dugganssteel.co.uk

ECS Engineering Services Ltd
www.eceng.co.uk

Elland Steel Structures Ltd
www.ellandsteel.com

EvaEx Ltd
www.evalex.com

Four Bay Structures Ltd
www.fourbay.co.uk

Four Row Engineering Ltd
www.fourrowengineering.co.uk

Fox Brox Engineering Ltd
www.fbox.co.uk

Gorge Fabrications Ltd
www.gorgefab.co.uk

G.R. Carr (Essen) Ltd
www.grcarr.com

H Young Structures
www.hyounstrucctures.co.uk

Had Fab Ltd
www.hadfab.co.uk

Hambleston Steel Ltd
www.hamblestonsteel.co.uk

Hascott Engineering Company Ltd
www.hascott.co.uk

Intersteels Ltd
www.intersteels.com

J & A Plant Ltd
www.ja-steel-fabrication.co.uk

James Killelea & Co Ltd
www.killelea.co.uk

Kieran Structural Steel Ltd
www.kissl.ie

Kloeckner Metals UK – Westok
www.kloecknerwestok.com

LA Metalworks Ltd
www.lametalworks.co.uk

Leach Structural Steelwork Ltd
www.leachsteel.co.uk

Legge Steel (Fabrications) Ltd
www.leggesteel.co.uk

M Hasson & Sons Ltd
www.hassons.com

M J Patch Structures Ltd
www.mjpatch.co.uk

M&S Engineering Ltd
www.msengineering.co.uk

Mackay Steelwork & Cladding Ltd
www.mackaysteelworkcladding.co.uk

Maldon Marine Ltd
www.maldonmarine.co.uk

Millfion Construction Ltd
www.millfion.co.uk

Murphy International Ltd
www.murphyco.uk

Newbridge Engineering Ltd
www.newbridge.co.uk

North Linics Structures Ltd
www.northlinicsstructures.com

Northsteel Structures Ltd
www.northsteelstructures.com

Painter Brothers Ltd
www.painterbrothers.com

Peter Marshall Steel Stairs Ltd
www.marshalldisland.com

PMS Fabrications Ltd
www.pmsfabrications.co.uk

Robinson Structures Ltd
www.robinsons.com

SH Structures Ltd
www.shstructures.com

SAH Engineering Ltd
www.sahengineering.co.uk

SDM Fabrication Ltd
www.sdmmfabrication.com

Severfield plc
www.severfield.com

Severfield (NI) Ltd
www.severfield.com

SGC Steel Fabrication
www.sgc-steel.co.uk

Shaw and Hodgson Engineering Ltd
www.shawandhodgson.com

Shipley Structures Ltd
www.shipleystructures.com

Shrewsbury Steelwork Fabrications Co Ltd
www.shrewsburysteel.co.uk

South Durham Structures Ltd
www.southdurhamstructures.co.uk

Southern Fabrications (Sussex) Ltd
www.sfab.co.uk

Steel & Roofing Systems
www.steelroofingsystems.ie

Structural Fabrications Ltd
www.structurefabrications.co.uk

Taunton Fabrications Ltd
www.tauntonfabrications.co.uk

Tatcher Industrial Ltd
www.ti.uk.com

Temple Mill Fabrications Ltd
www.templemill.co.uk

Traditional Structures Ltd
www.traditionalstructures.co.uk

TSD Structures Ltd
www.tsdstructures.co.uk

Underhill Engineering Ltd
www.underhillengineering.co.uk

WIG Engineering Ltd
www.wigsteel.co.uk

Walter Watson Ltd
www.walter-watson.co.uk

Westbury Park Engineering Ltd
www.westburyparkengineering.co.uk

William Haley Engineering Ltd
www.williamhaleyengineering.co.uk

William Hare Ltd
www.ware.com

WT Fabrications (NI) Ltd
www.wtfabrications.com

As of June 2020. Bold text denotes Steel for Life sponsors.
Members Listing

Steelwork contractors for bridges

The Register of Qualified Steelwork Contractors Scheme for Bridgeworks (RQSC) is open to any Steelwork Contractor who has a fabrication facility within the European Union.

AJ Engineering & Construction Services Ltd
www.ajengineering.co.uk
Billington Structures Ltd
www.billington-structures.co.uk
Bourne Group Ltd
www.bournegroup ltd
Briton Fabricators Ltd
www.britons ltd.co.uk
Cairnhill Structures Ltd
www.cairnhillstructures.co.uk
Cementation Fabrications
www.skanska.co.uk
Cleveland Bridge UK Ltd
www.clevelandbridge.com
D Hughes Welding & Fabrication Ltd
www.dhewelding.com
Donyal Engineering Ltd
www.donyal.co.uk
ECS Engineering Services Ltd
www.ecseng.co.uk
Four-Tees Engineers Ltd
www.fourtees.co.uk
Kiernan Structural Steel Ltd
www.kssl.ie
M Dawson & Sons Ltd
www.dawsons.com
Miller Callaghan Engineering Services Ltd
www.miller-callaghan.co.uk
Murphy International Ltd
www.murphygroup.ie
Nusteel Structures Ltd
www.nusteelstructures.com
SH Structures Ltd
www.shstructures.com
Severfield (UK) Ltd
www.severfield.com
Shaun Hodgson Engineering Ltd
www.shaunhodgson.co.uk
Structural Fabrications Ltd
www.structuralfabrications.co.uk
Talkeer Industrial Ltd
www.ti.uk.com
Underhill Engineering Ltd
www.underhillengineering.co.uk
William Hare Ltd
www.hare.com

Corporate members

Corporate Members are clients, professional offices, educational establishments etc which support the development of national specifications, quality, fabrication and erection techniques, overall industry efficiency and good practice.

Gene Mathers
0115 9747831
Griffiths & Armour
www.griffithsandarmour.com
Highways England Company Ltd
www.highwaysengland.co.uk
Inspire Insurance Services
www.inspireinsurance.co.uk
Sandberg LLP
www.sandberg.co.uk
Structural & Weld Testing Services Ltd
www.swtndt.co.uk
SUM Ltd
www.wwaresum.co.uk

As of June 2020
Industry Members are those principal companies involved in the direct supply to all or some Steelwork Contractor Members of components, materials or products. Industry member companies must have a registered office within the United Kingdom or Republic of Ireland.

Industry members

STRUCTURAL COMPONENTS
Albion Sections Ltd www.albionsections.co.uk
BW Industries Ltd www.bw-industries.co.uk
Callbeam Ltd www.callbeam.co.uk
Composite Profile UK Ltd www.compositeuk.com
Construction Metal Forming Ltd www.cmf.uk.com
Dever Steels Ltd www.deversteels.co.uk
Dover Isoteel Ltd www.doverat.com
FLI Structures www.fli.co.uk
Hadley Industries Plc www.hadleygroup.com
Hi-Span Ltd www.hispan.com
Jamestown Manufacturing Ltd www.jamestownprofiling.com
Kingspan Limited www.kingspan.com/gb/en-gb

Lionfield Group www.access-design.co.uk
MSW UK Ltd www.mswukltd.com
Prodeck-Fixing Ltd www.prodeck-fixing.co.uk
Structural Metal Decks Ltd www.smldltd.co.uk
Stud-Deck Services Ltd www.studdeckservices.co.uk
Tata Steel – ComFlor www.tatasteeleconstruction.com
voestalpine Metsec plc www.metsec.com

WELDING EQUIPMENT AND CONSUMABLES
Air Products PLC www.airproducts.co.uk
Behaviour Ltd www.behaviourltd.co.uk
BPP Group Ltd www.bpp.co.uk
Cooper & Turner Ltd www.cooperandturner.co.uk
Lindapter International www.lindapter.com
Tension Control Bolts Ltd www.tcbolts.com

PROTECTIVE SYSTEMS
Forward Protective Coatings Ltd www.forwardprotectivecoatings.co.uk
Hempel UK Ltd www.hempel.com
Highland Metals Ltd www.highlandmetals.co.uk
International Paint Ltd www.international-paint.com
Jack Tighe Ltd www.jacktighe.com
Joseph Ash Galvanizing www.josephash.co.uk
Jotun Paints (Europe) Ltd www.jotun.com
PPG Architectural Coatings UK & Ireland www.ppg.com
Sherwin-Williams Protective & Marine Coatings www.sherwin-williams.com/protectiveEMEA
Walcot Protective Coatings Ltd www.walcotprotective.co.uk
Wedge Group Galvanizing Ltd www.wedge-galv.co.uk

STEEL STOCKHOLDERS
AJN Steelstock Ltd www.ajnsteelstock.co.uk

ACcelorMittal Distribution Solutions UK Ltd www.accelormittal.com
Barrett Steel Limited www.barrettsteel.com
British Steel Distribution www.britishsteel.co.uk
Cleveland Steel & Tubes Ltd www.cleveland-steel.com
Dent Steel Services (Yorkshire) Ltd www.dentsteel.co.uk
Dillinger Hutte U.K. Limited www.dillinger.de
Duggan Profiles & Steel Service Centre Ltd www.steel.ie
Kloeckner Metals UK www.kloecknermetalsuk.com
Murray Plate Group Ltd www.murraysteelproducts.com
National Tube Stockholders Ltd www.nationaltube.co.uk
Rainham Steel Company Ltd www.rainhamsteel.co.uk

STEEL PRODUCERS
British Steel Ltd www.britishsteel.co.uk
Tata Steel – Tubes www.tatasteeleurope.com

As of June 2020. Bold text denotes Steel for Life sponsors

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