ABOUT STEEL CONSTRUCTION INSTITUTE

SCI (Steel Construction Institute) has been a trusted, independent source of information and engineering expertise globally for over 30 years, and remains a leading, independent provider of technical expertise and disseminator of best practice to the steel construction sector. SCI are committed to offering and promoting sustainable and environmentally responsible solutions.

The industry look to SCI for reliable and robust technical information on the effective use of steel in design, including the latest codes and building regulations and Eurocode advice.

Following SCI’s success of the SCI Assessed scheme, SCI Product Certification will provide assurance that your product meets all relevant, current requirements, and has been developed to follow the requirements of EN ISO/IEC 17065, Conformity assessment - Requirements for bodies certifying products, processes and services.

Our certificates offer clear, unambiguous statements about compliance and are structured to follow the Basic Work Requirements for construction works as set out in the Construction Products Regulation.

This SCI Product Certification Scheme evaluates construction products or systems. It is recognised by the construction industry as a rigorous, impartial and independent assessment of a product’s performance, and is going through the UKAS (United Kingdom Accreditation Service) accreditation process.

The aim of the scheme is to help manufacturers differentiate their products in the market, and provide confidence to specifiers, end users and other interested parties that the products fulfil specified requirements.

To be awarded an SCI Product Certificate a product or system has to pass a comprehensive assessment consisting of, but not limited to:

- Laboratory test and calculation data
- Technical and design data
- Design protocol
- Full set of design calculations
- Inspections of production
- Checks on compliance with Building Regulations
- Consideration of other statutory or non-statutory requirements
- Regular monitoring of product manufacture

Compliance will be assessed by means of a submitted technical manual and supporting information.
The following is a guideline to the scheme requirements for each of the basic work requirements (BWR) under the CPR. For the full set of requirements please refer to technical scheme document TSD001, available from SCI.

**MECHANICAL RESISTANCE AND STABILITY – BWR 1**
The individual structural elements shall be capable of supporting the specified loadings with adequate safety against structural collapse, inadmissible deformations and disproportionate collapse.
The product shall be designed and constructed in accordance with an SCI recognised design code.
Compliance will be assessed by means of a submitted technical manual and supporting information.

**SAFETY IN CASE OF FIRE – BWR 2**
The individual components shall be tested using the appropriate test method and classified in accordance with BS EN 13501-1.
Where subject to regulatory requirements for resistance to fire properties, the product shall be classified according to BS EN13501-2 with respect to the load-bearing criterion (R), the integrity criterion (E) and the thermal insulation criterion (I), as appropriate for the intended end use.
Extrapolation of test results should be carried out in accordance with the field of application of the relevant test standard using formal fire assessments by UKAS accredited fire consultants.

**HYGIENE, HEALTH AND ENVIRONMENT – BWR 3**
The manufacturer will provide a declaration of whether the product contains any dangerous substances (as defined in the EU database). Should this be the case then compliance with the applicable regulations in the UK must be demonstrated.

**SAFETY IN USE – BWR 4**
Mechanical resistance against dynamic loads may be assessed on the basis of resistance to static loads and the intended application of the product.

**PROTECTION AGAINST NOISE – BWR 5**
Not applicable.

**ENERGY ECONOMY AND HEAT RETENTION – BWR 6**
Thermal inertia of the product parts shall be known, where applicable, to assess the effect on energy and heat retention.

**SUSTAINABLE USE OF NATURAL RESOURCES – BWR 7**
The durability of the product shall be declared in respect of the constituent components.
The product must be designed, built and demolished in such a way that the use of natural resources is sustainable and in particular ensure the following:
- Reuse or recyclability of the construction works, their materials and parts after demolition;
- Durability of the construction works;
- Use of environmentally compatible raw and secondary materials in the construction works.

**FACTORY PRODUCTION CONTROL (FPC) REQUIREMENTS**
The client shall establish, document and maintain an FPC system sufficient to maintain the manufactured quality of the product.
A system developed in accordance with BS EN ISO 9001, that includes the specific requirements of this scheme, would also meet the requirements for FPC.