

EN 1090-1 certificate: your starting point for CE marking steel and aluminum constructions



EN 1090-1 certification with Kiwa: demonstrate your compliance with EU regulations, highlight the quality of your components and get ready to access the European market with CE marking..

If your company manufactures steel or aluminum structural components, EN 1090-1 certification can help you on your way to a CE mark – and get you access to new markets.

European product standard EN 1090-1 is a required prerequisite for products being sold and used in the EU with CE marking. With the certificate – and the CE marking – you can show that your products meet the requirements of the European Construction Products Regulation, and the characteristics you give them.

EN 1090-1 describes the requirements for CE marking and sets out the technical requirements for aluminum and steel components. By certifying your products, you can demonstrate their compliance and quality, and be prepared for CE marking.

Focus

EN 1090-1 is for manufacturers who produce structural components from steel or aluminum. It is also of interest to contractors, engineers, clients and other building professionals working with these components.

What you need to know

Construction products like yours are subject to the European Construction Products Regulation. This means all construction products covered by a European harmonized product standard are subject to compulsory CE marking – this includes EN 1090-1, for steel and aluminum constructions, which includes the manufacturing control system Factory Production Control (FPC).

The standard has three parts:

1. 1090-1 – A specification of requirements aluminum or steel construction components have to meet for CE marking
2. 1090-2 – technical requirements are set out for parts of steel and aluminum
3. 1090-3 – technical requirements are set out for end products of steel and aluminum

Part 1 sets out what performance you can assign to your structural aluminum and steel components, the determination methods that apply and how and when you can use CE marking.

A range of steel and aluminum components are covered by the standard, including those made from hot-rolled or cold-formed base products or basic products, flat products, solid rods and forgings made of steel and aluminum.

Getting certified with Kiwa

If you want to access the European market with your aluminum and steel structural components, CE marking is a must – and to get there, you need EN 1090 certification.

By partnering with Kiwa, you can get EN 1090-1 certification along with FPC certification, giving you what you need for CE marking.

Steps

Before you qualify for EN 1090-1 certification, some steps need to be taken: a first type examination (ITT) and a first type calculation (ITC) must be carried out for the product, and an FPC must be set up. The FPC guarantees the quality of the welding in your production line, and it has to meet the standard NEN-EN-ISO 3834 (part 2, 3 or 4).

USPs/benefits

- *Boost your profits* – by preparing for CE marking with EN 1090-1, you can get ready to access the European market – and its potential profits
- *Ensure quality* – with EN 1090-1 and the associated FPC, you can guarantee the quality of welding and the accuracy of your components' performance
- *Trade in the EEA* – EN 1090-1 enables you to apply for CE marking, which gives you unrestricted trading rights in the EEA
- *Meet customers' needs* – CE marking assures consumers of consistent health, safety and environmental protection when using your products
- *Demonstrate your commitment to quality* – certification shows customers, partners and employees that you are committed to technical quality
- *Improve competitiveness* – EN 1090-1 certification and CE marking enable you to be competitive in the European market