

bsi.

BS EN 1090

Structural Steel

Turning compliance into opportunity

1

What is BS EN 1090?

BS EN 1090 is a harmonized standard that covers structural/construction steel and aluminium products that will be installed permanently, for example in steel frames or metal roofing.



If you design and/or manufacture steel components to be sold in Europe, and your products are covered by a harmonized European Standard or a European Technical Assessment, **you must CE mark your products**.

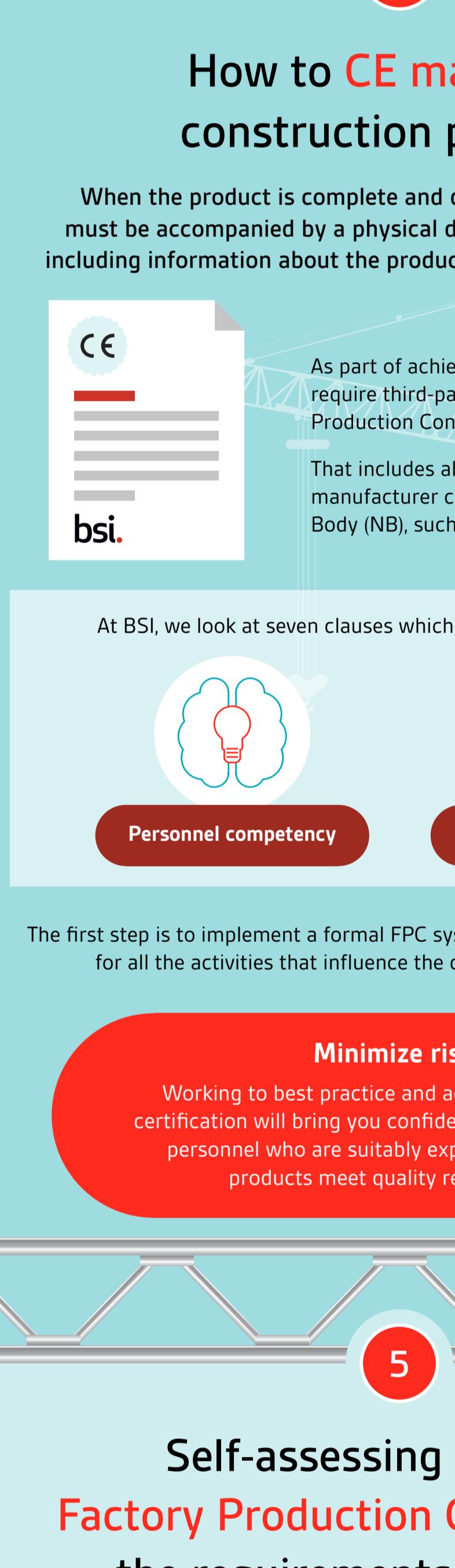


CE marking to BS EN 1090 is a legal requirement – Since July 2014, structural steelwork and aluminium fall under the Construction Products Regulation (CPR), which means aluminium or structural steel CE marking must be secured to show compliance with EN 1090-1.

2

Do I need to comply to BS EN 1090?

The Construction Products Regulation (CPR) has mandated that all construction products made from steel or aluminium, that fall into the scope of BS EN 1090, must be CE marked.



Did you know?

If a company does not comply with CE marking Certification, and their products are sold in the EU, covered by the appropriate harmonized European standard or technical assessment – they are trading illegally.

In addition, a further piece of legislation has been introduced to allow the CPR to be enforced by the Trading Standards authority, which has the power to stop a business from trading and withdraw products until the company has shown that it complies with the Regulation.

Real business benefits

By complying with this legal requirement, you can also:

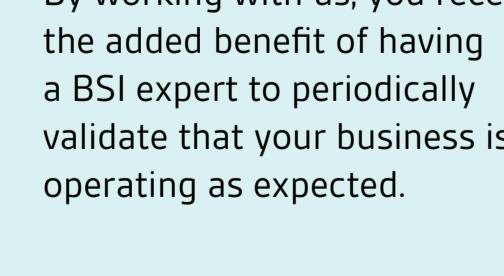
- Eliminate waste with efficiency gains of up to 20%
- Protect your business by providing tangible proof of the identity and traceability of your products
- Future-proof your business, increasing tender opportunities
- Strengthen bids and exceed client expectations
- Improve commercial quality awareness
- Show company-wide commitment to quality
- Drive business improvement

If your products fall into the scope of BS EN 1090, and it's been established that you will need to CE mark one or more of these products, the next task for you as a manufacturer is to determine which Execution Class you require.

3

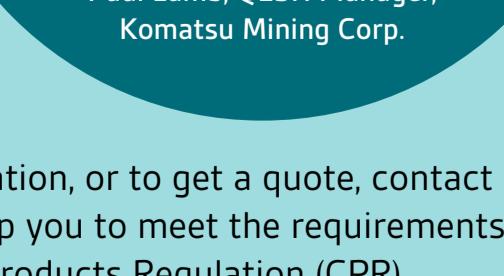
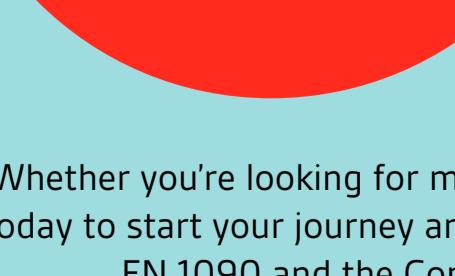
Understanding the 'Execution Class' your products fall into

The products you produce will fall into a class category, from 1-4:



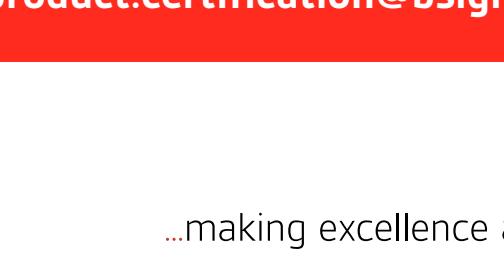
Class 1

For structures that carry the least risk to human life in the event of a failure, for example farm buildings.



Class 3

For structures / buildings with more than 15 floors, including pedestrian, bicycle, road and railway bridges, and crane tracks.



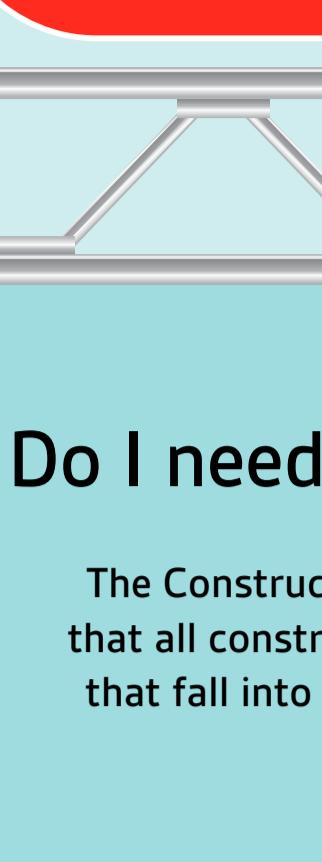
Class 4

The highest risk, for example the sliding roof at Wimbledon, or Wembley Stadium, where a failure could have catastrophic consequences, with potential severe loss of life.

4

How to CE mark your construction products

When the product is complete and delivered to your client, it must be accompanied by a physical document with the CE logo, including information about the product and you the manufacturer.



As part of achieving a CE mark, you will also require third-party certification for your Factory Production Control (FPC) system.

That includes all the activities which you as a manufacturer carry out and it is only a Notified Body (NB), such as BSI, that can do this.



Personnel competency

Documented work

You may find that your insurance provider will not cover you if you don't have CE marking for EN 1090, if any structure or part of a structure you supply, fails later in whole or in part.

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Appropriate inspection and testing

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Material traceability

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Final marking and identification of your product

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Drive business improvement

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