

SP Technical Research Institute of Sweden

SP Sveriges Tekniska Forskningsinstitut



SP Technical Research Institute of Sweden

SP Product Certification

Construction Products Directive (CPD) 89/106/EEG



SP Technical Research Institute of Sweden

SP Product Certification

	Product Certification by the Notified Body		Declaration of conformity by the manufacturer Inspection of the FPC by the Notified Body		Declaration of conformity by the manufacturer	
	1+	1	2+	2	3	4
AC - System	1+	1	2+	2	3	4
<i>Tasks for the manufacturer</i>						
Factory Production Control FPC	X	X	X	X	X	X
Sampling according to plan	X	X	X	X		
Initial Type Testing ITT			X	X		X
<i>Tasks for the Notified Body</i>						
Initial Type Testing ITT	X	X			X	
Initial Inspection of FPC	X	X	X	X		
Continuous inspection of FPC	X	X	X			
Sampling and compare testing	X					



SP Product Certification

FPC = Factory Production Control

ISO/IEC 17020:2005

General criteria for the operation of various types of bodies performing inspection

ISO/IEC 17025:2005

General requirements for the competence of testing and calibration laboratories

ISO/IEC 17021:2006

Conformity assessment - Requirements for bodies providing audit and certification of management systems

EN 45011

General requirements for bodies operating product certification systems (ISO/IEC Guide 65:1996)



SP Product Certification

Type testing

- Testing according to standard or specification, by an accredited laboratory
- ISO/IEC 17025:2005

Inspection of FPC

- Management, controls, equipment, responsibility, marking, handling, non-conformity, etc.
- ISO/IEC 17020:2005



SP Product Certification

Example:

CE-marking of a
Construction Product in AC System 1



SP Technical Research Institute of Sweden

SP Product Certification

1. The certification process



SP Product Certification

Application from the manufacturer:

- Application, referring to a Harmonized Standard (hEN)
- Technical File (Specifications, drawings, instructions for installation and use)
- Quality manual (FPC)



SP Product Certification

Certification Body, CB - Project manager

Initial assessment:

- Are we notified for the standard?
- Is the product clearly described?
- Is it in compliance with the standard?
- Is the application complete?

Contacts:

- Laboratory (book time for test)
- Inspection team (book time for inspection audit)
- Technical expert(s), if necessary



SP Product Certification

CB - Project manager:

- Order confirmation
- Time schedule

Manufacturer:

- Sends test sample(s) to the laboratory

NOTE: Check standard, it can be an obligation that the laboratory staff shall perform the sampling!



SP Product Certification

CB – Project manager and/or technical expert

Examination of the technical file:

- Drawings
- Specifications
- (Test reports)
- Instructions for installation and use



SP Product Certification

Laboratory:

- Testing according to the standard, issues a test report. A copy of the test report to the CB.

CB or Inspection body:

- Examines the Quality Manual, prepares for the inspection visit, executes the inspection of the factory and FPC.
- Issues an inspection report.
- Sets up an agreement with the manufacturer about continuous inspection. Copy to CB



SP Product Certification

CB - Project manager

- Examines the test report(s)
- Examines the audit report and that corrections are handled and approved by the auditor
- Assignment between CB or Inspection body and manufacturer is signed
- Evaluation and decision



SP Product Certification

CB - Project manager

- Issues the certificate
- Signs it

CB - Certification Manager

- Approves by countersigning

CB - Administration

- Sends the certificate to the manufacturer
- Registers it



SP Product Certification

Manufacturer

- Sets up a Declaration of Conformity
- Put on the CE-mark
- Runs and maintains the FPC



SP Product Certification

2. The follow-up process



SP Product Certification

CB or Inspection body

- Performs audits/inspections, i.e once a year. Issues an audit/inspection report to the manufacturer, a copy to the CB

Certification Body

- Supervise that audits are performed, with approved result. Acts if the audit show nonconformity.
- Reissues the certificate after x years



SP Product Certification

FPC – Factory Production Control

- Process control methods
- Resources
- Test methods
- Testing equipment
- Traceability
- Records
- Analyses of results
- Corrective actions
- “Simplified” management system



SP Product Certification

SP Certification

Product Certification

Box 857

SE-501 15 Borås

Sweden

www.sp.se



SP Technical Research Institute of Sweden