

# Test certificates

## Introduction

In Germany inspection documents (certificate types) were originally specified in standard DIN 50049. The definitions of material testing and certificate types in DIN 50049 was adopted for European standard EN 10204, first published in 1991.

Certificate types 2.1, 2.2, 2.3, 3.1A, 3.1B, 3.1C and 3.2 were defined, closely following the definitions in the German standard.

EN 10204 was revised in 2004 and published as BSEN 10204 in October 2004 with a simplified range of inspection documents (certificate types).

These now only include types 2.1, 2.2, 3.1 and 3.2.

Type 2.3 has been deleted.

Type 3.1 replaces 3.1B

Type 3.2 replaces 3.1A, 3.1C and 3.2 of the previous edition.

This reduced range of options should be easier to understand and work with.

When this standard and certificate type is shown, it only refers to the certificate type and not the steel standard.

This should be covered separately eg BSEN 10088-2, for stainless steel sheet or plate type products

## Test certificate standards and types

Each of the certificate types has a reference number, which has both its content and 'validation' requirements described in the standard in Appendix A, Table A.1. These descriptions are sometimes a little difficult to interpret and need some additional interpretation. The table below shows the full range of current (C) and withdrawn (W) EN 10204 certificate types, with some interpretation of what they cover. In any case of dispute however the descriptions given in Table A.1 of EN 10204:2004 should be used.

Certificate type	Title	Status	Summary of EN10204 requirements	Notes
2.1	Declaration of compliance with the order	C	Statement of compliance with the order by the manufacturer.	No test results shown.
2.2	Test report	C	Statement of compliance with the order by the manufacturer based on non-specific inspections (tests) by the manufacturer.	Like the old BS1449 'Cast Test' certificate. Mechanical test sample results from another coil from same cast, manufactured by the same process route, can be used.
2.3	Specific test report	W	With mention of test results from specific inspection and testing	Batch test results needed on the certificate. Difficult to distinguish this from the 3.1B type.
3.1	Inspection certificate	C	Statement of compliance with the order by the manufacturer with results of specific inspection	Replaces 3.1B. Common certificate type issued for 'batch tested' material. Cert. issued and signed by manufacturer's representative, who must be independent of the manufacturing department. Eg Inspection department or test house manager/supervisor.
3.1A	Inspection certificate 3.1A	W	With mention of test results from specific inspection and testing	Batch test results. Cert. issued by independent inspector required by releasing authority (eg TUV for German pressure vessels). Replaced by 3.2 in 2004
3.1B	Inspection certificate 3.1B	W	With mention of test results from specific inspection and testing	Batch test results. Cert. issued and signed by manufacturer's representative. Replaced by 3.1 in 2004
3.1C	Inspection certificate 3.1C	W	With mention of test results from specific inspection and testing	Batch test results. Cert. issued by independent inspector appointed by customer (eg Lloyds). Replaced by 3.2 in 2004
3.2	Inspection certificate	C	Statement of compliance with order with indication of results of specific inspection	Batch test results. Cert. issued by both manufacturer's representative and an independent inspector appointed either by the customer (cf withdrawn 3.1C) or an inspector designated by official regulations (cf withdrawn 3.1A). ie 3.2 now covers scope of both 3.1A and 3.1C of 1991 edition. This cover what is often referred to as 'outside inspection'

When the 3.2 certificate type is requested the manufacturing mill may prepare a 3.1 type certificate to present to the 'outside inspector' to use as a basis for preparing the independent 3.2 certificate. Only the 3.2 certificate is valid however for the ordered requirements and to match the product marking and inspectors stamp.