



The
Building
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Quality Performance Evaluation Manual for Building Materials



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The Building Center of Japan

Technical Appraisal Department, Structural Safety Section

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This English edition is simply a translation prepared solely for the convenience of interested persons, so only the Japanese-language texts are official. In the event of any doubt arising, it is at all times advisable to refer to the original Japanese text.

Article 1: Scope of Application

This manual applies to performance evaluations pertaining to approval under the provisions of Article 37 Item 2 of the Building Standard Law.

Article 2: Documents to be Submitted for Performance Evaluations

The documents to be submitted for performance evaluations are listed below. Apart from (1), formats and other requirements are as stipulated in application procedures defined elsewhere.

- (1) Performance evaluation application (BF01-01)
- (2) Documents providing an overview of the building material and the scope of its application
- (3) Documents describing the material properties of the building material in relation to quality standards
- (4) Statistical data concerning the characteristics of the material
- (5) Documents containing items pertaining to tests conducted to prepare the statistical data
- (6) The following documents concerning quality control (documents specifying the relevant in-house standards in relation to items 1)-③ and 2)- ② through ⑨)
 - 1) Documents containing items relating to the factory, etc., in which the building materials covered by the application are manufactured
 - ① Management policies (including items relating to quality control) (These need not be stated if the standard in Notification No.1446 of Ministry of Construction (May 31, 2000), hereinafter referred to as “the Notification”, Article 3 Paragraph 2 applies.)
 - ② Organization a chart (a complete corporate chart clearly showing the positioning of persons responsible for quality control)
 - ③ Overview of quality characteristics of the product and quality control (including storage related aspects)
 - 2) Documents containing items relating to the manufacture of the building materials covered by the application
 - ① List of in-house standards
 - ② Overview of quality characteristics of the product and quality control (including storage related aspects)
 - ③ Names of principal materials, names of manufacturers, summary of quality and quality assurance methods (including storage related aspects)
 - ④ Chart summarizing production processes
 - ⑤ Overview of quality control in production processes
 - ⑥ Overview of principal manufacturing equipments and their management
 - ⑦ Overview of principle inspection equipments and their management
 - ⑧ Overview of outsourcing and outsourcing management
 - ⑨ Overview of complaint processing

- 3) Documents containing items relating to persons responsible for implementation of quality control pertaining to the building material covered by the application
 - ① Names and titles
 - ② Practical experience relating to technology required for the manufacture of the building material covered by the application
 - ③ Levels of practical experience and specialized knowledge relating to quality control

- 4) Principal in-house standards and quality control records
 - ① In-house standards used to regulate inspection (limited to inspections as stipulated in Annexed Table 3 Column (b) of the Notification; the same to apply in ③), manufacture, transportation and storage, or summaries thereof
 - ② Other in-house standards stipulating items relating to quality control, the organizational operation of quality control, the appointment of persons responsible for the implementation of quality control and the performance of their duties, or summaries thereof
 - ③ Extracts from records relating to inspections, and related statistical data
 - ④ Extracts from records relating to items concerning quality control in manufacturing, transportation, storage and other areas, the organizational operation of quality control, the appointment of persons responsible for implementation of quality control and the performance of their duties

- 5) Documents certifying that manufacturing equipments, inspection equipments, inspection methods, quality control methods and other technical manufacturing conditions required for quality assurance conform with the provisions of JIS Z9902 (limited to cases to which the standard in Article 3 Paragraph 2 of the Notification applies.)

- 6) If the application includes content with which the measurement, etc., can be performed to an equal or better extent than with the measurement method, etc., stipulated in Annexed Table 2 Column (c) of the Notification or the inspection method stipulated in Annexed Table 3 Column (c) of the Notification, a Notification Comparison Table will be prepared as shown in the attached form.

Article 3: Evaluation Method

- (1) Conduct of evaluation
 - 1) The evaluator will conduct the evaluation in accordance with evaluation standards stated in (2), using the documents stipulated in Article 2.
 - 2) If necessary for the purposes of the evaluation, the evaluator will ask the applicant to explain the documents submitted for the performance evaluation.

- (2) Evaluation standards

The evaluation will cover items in the technical standards pertaining to quality, as stipulated in Article 3 Paragraph 1 or 2 of the Notification.

— A. If the standard in Article 3 Paragraph 1 of the Notification applies —

The evaluation will cover Items 1) through 6) below.

- 1) Evaluation to determine whether or not the quality of the building material covered by the application conforms with the quality standard stipulated in Annexed Table 2 Column (b) of the Notification, using the measurement method, etc., stipulated in Column (c) of Annexed Table 2
Criteria
 - ① Statistical data concerning material characteristics must be compiled using the measurement method, etc., stipulated in Annexed Table 2 Column (c) of the Notification.
 - ② Standard values for strength, etc., must be based on statistical data from an appropriate number of specimens and must be set appropriately, taking into account variation in product quality.
 - ③ If the quality standard stipulated in Annexed Table 2 Column (b) of the Notification defines maximum and minimum values, the standard value used must meet these requirements.

- 2) Evaluation to determine whether or not the inspections pertaining to the items stipulated in Annexed Table 3 Column (b) of the Notification are being conducted in accordance with the inspection methods stipulated in Column (c) of Annexed Table 3.
Criteria
 - ① The relevant in-house standard must require the inspection method stipulated in Annexed Table 3 Column (c) of the Notification as the inspection method for the inspection items listed in Annexed Table 3 Column (b).
 - ② There must be records showing that inspection was carried out in accordance with in-house standard referred to in ①.
 - ③ Statistical data pertaining to the records referred to in ② must show that the quality of the building material covered by the application is highly consistent.

- 3) Evaluation to determine whether or not the building material covered by the application is being manufactured, transported and stored using appropriate methods to ensure that its quality meets the quality standard stipulated in Annexed Table 2 Column (b) of the Notification.
Criteria
 - ① The relevant in-house standards must stipulate the use of the manufacturing, transportation and storage methods needed to ensure that the quality of the building material covered by the application will meet the quality standard stipulated in Annexed Table 2 Column (b) of the Notification.
 - ② There must be records showing that manufacture, transportation and storage were carried out in accordance with the in-house standards referred to in ①.

- 4) Evaluation to determine whether or not inspection equipments have the accuracy and performance levels required for inspections
Criteria
 - ① The relevant in-house standards must stipulate that the inspection equipments have the specifications (type, functions, capacity, accuracy, etc.) required to conduct inspections using the inspection method stipulated in Annexed Table 3 Column (c) of the Notification.

- ② There must be records showing delivery of inspection equipments that meet the specifications stipulated in the in-house standards referred to in ①.
- 5) Evaluation to determine whether or not quality control and the organizational management thereof are being performed as stated in Article 3 Paragraph 1 Item (5) and Item (6)-a of the Notification
- Criteria
- ① The relevant in-house standards must stipulate all of the items stated in Article 3 Paragraph 1 Item (5) and Item (6)-a of the Notification without exception.
 - ② There must be records showing that actions have been implemented in accordance with the in-house standards referred to in ①.
- 6) Evaluation to determine whether or not persons responsible for the implementation of quality control are being appointed and are performing their duties as stated in Article 3 Paragraph 1 Item (6)-b of the Notification
- Criteria
- ① The relevant in-house standards must stipulate all of the items stated in Article 3 Paragraph 1 Item (6)-b of the Notification without exception.
 - ② There must be records showing that persons responsible for the implementation of quality control have been appointed and are performing their duties in accordance with the in-house standards referred to in ①.

— B. If the standard in Article 3 Paragraph 2 of the Notification applies —
The evaluation will cover Items 7) through 9) below.

- 7) Evaluation to determine whether or not manufacturing equipments, inspection equipments, inspection methods, quality control methods and other technical manufacturing conditions required for quality assurance conform with the provisions of JIS Z9902
- Criteria
- ① There must be documents certifying that manufacturing facilities, inspection facilities, inspection methods, quality control methods and other technical manufacturing conditions required for quality assurance conform with the provisions of JIS Z9902 standard.
- 8) Evaluation to ascertain conformance with the standards in Article 3 Paragraph 1 Items (1) through (4) and Item (6)-b of the Notification
- Criteria
- ① The criteria in evaluation items 1) through 4) and 6) must be met.
- 9) Evaluation to determine whether or not in-house standards have been concretely and systematically prepared in accordance with the quality standards, inspection items and inspection methods for the manufacture of the building material, and whether or not the product has been inspected for conformance with the quality standard for the construction material and stored appropriately in accordance with in-house standards
- Criteria
- ① The relevant in-house standards must stipulate the quality standard stated in Annexed Table 2 Column (b) of the Notification and the inspection items

and inspection methods stated in Annexed Table 3 Columns (b) and (c) for the building material covered by the application.

- ② There must be records showing that inspection and storage have been carried out in accordance with the in-house standards referred to in ①.

Article 4: Performance Evaluation Report

The following items will be stated in the performance evaluation report.

- (1) Evaluation number, date of completion of evaluation
- (2) Name of applicant (company name, representative name, address)
- (3) Name of item
- (4) Scope of application
- (5) Summary of content of evaluation (examination content)
- (6) Evaluation result
- (7) Other items for which inclusion in the performance evaluation report is deemed to be necessary on the basis of the evaluation process

Attached Form
Notification Comparison

Comparison with Technical Standards Stipulated in Article 3 of the Notification No. 1446 (2000) of the Ministry of Construction

Building material category		Building material _____ as defined in 1-__		
1	Conformance with the quality standard stipulated in Column (b) of Annexed Table 2, as confirmed using the measurement method, etc., stipulated in Column (c), according to each of the building material categories stipulated in Column (a)		Content of application	Same/ Different
	Quality standard	Measurement method, etc.		
2	Inspection covering the inspection items stipulated in Column (b) of Annexed Table 3, using the inspection method stipulated in Column (c), according to each of the building material categories stipulated in Column (a)		Content of application	Same/ Different
	Inspection item	Inspection method		