

**Translation from German
(14 pages in all)**

**Translation of the German original version not revised by the
Deutsches Institut für Bautechnik**

**National
Technical
Approval**

Deutsches Institut für Bautechnik¹

ANSTALT DES ÖFFENTLICHEN RECHTS¹

**Approval body for construction products and types
of construction**

Technical inspection body

Member of the European Organization for
Technical Approvals EOTA and of the European
Union of Agrément UEAtc

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Applicant:

Eternit Aktiengesellschaft

Im Breitspiel 20, D-69126 Heidelberg

Subject matter of approval:

Façade system “Tonality Classic 26”

The above mentioned subject matter of the approval is herewith granted the National Technical Approval. The present national technical approval comprises ten pages and sixteen annexes.

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¹Deutsches Institut für Bautechnik (DIBt) is an institution of the Federal and Laender Governments for a uniform fulfillment of technical tasks in the field of public law – by both above mentioned governments.

I. GENERAL PROVISIONS

1. The granting of the national technical approval represents the proof of the fitness respectively the applicability of the subject matter of the approval on the basis of the building laws of the German Laender.
2. In case the national technical approval includes any requirements relating to the expert knowledge and experience of persons entrusted with the manufacturing of construction products and types of construction according to § 17. Sect. 5 Musterbauordnung [*Model Building Code*] of the respective regulations of the Laender, it must be observed that this expert knowledge and experience can be documented by equal evidence of other member states of the European Union, as well. If necessary, this shall also be valid for equal evidence presented within the scope of the agreement of the European Economic Area or other bilateral agreements.
3. The national technical approval does not replace the authorizations, approvals and confirmations for the execution of building projects prescribed by law.
4. The national technical approval is granted without prejudice to the rights of third parties and particularly of private property rights.
5. Notwithstanding further regulations of the "Special Provisions", manufacturer and distributor of the subject matter of the approval shall supply the user of the subject matter of the approval copies of the national technical approval and point to the fact that the national technical approval must be available in place. The authorities involved shall be supplied copies of the national technical approval on demand.
6. The national technical approval may only be duplicated in full. A publication in excerpts requires the prior consent of the Deutsches Institut für Bautechnik. The wording and drawings of promotion matter must be consistent with the national technical approval. Translations of the national technical approval must bear the note "Translation of the German original version not revised by the Deutsches Institut für Bautechnik".
7. The national technical approval is granted until further notice. The provisions of the national technical approval can subsequently be added to and amended, particularly if required by new technical knowledge and findings.

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II. SPECIAL PROVISIONS

1. Subject matter of approval and field of application

The national technical approval applies to the suspended cladding for external walls (façade system) "Tonality Classic 26", ventilated at rear, consisting of the cladding tiles "Tonality Classic 26", which show a profile on the reverse and are mounted by means of positive locking onto vertical support frames made of aluminium. The plate fastening system is described as "Classic system (CLS)", "Adaptive system (ADS)" or "Basic clinch rail system (BAS)", depending on the kind of support frames that have been used.

The cladding tiles "Tonality Classic 26" can also be used as ceiling cladding (overhead laying), if they are installed with the "Adaptive system (ADS)" or the "Basic clinch rail system (BAS)".

The vertical joints between the cladding tiles are backed with profiled joints made of neoprene or of aluminum.

The cladding tile "Tonality Classic 26" as well as the support frames and joint profiles made of aluminium are non-inflammable, the joint profiles made of neoprene demonstrate normal inflammability.

The cladding system "Tonality Classic 26" meets the building requirement to non-inflammability.

The admissible overall height for the application of the cladding system "Tonality Classic 26" results from the proof of steadiness, provided that lower heights will not be required as a consequence of the fire protection regulations of the individual Länder currently in force.

The sub-construction and its anchorage onto the building do not constitute the subject matter of the present national technical approval.

A possibly already existing thermal insulation must consist of a non-inflammable heat relief made of mineral fiber according to DIN EN 13162². It must be attached directly onto the building irrespective of the sub-construction.

2 Provisions pertaining to the construction products

2.1 General provisions

The subject matter of the approval and its components must comply with the Special Provisions and Annexes of present national technical approval, as well as with the information deposited with the Deutsches Institut für Bautechnik.

² The Technical regulations for Construction Products List B, Part 1, No. 1.5.1 must be observed regarding fire resistance.

2.2 Characteristics and composition

2.2.1 Cladding tile "Tonality Classic 26"

According to Annexes 3.1 to 3.7, the cladding tiles "Tonality Classic 26" must be tiles showing a profile on the reverse as well as the following characteristics.

- The measurements of the cladding tiles "Tonality Classic 26" must correspond to the indications of Table 1 and the Annexes 3.1 to 3.7. The indications regarding manufacturing tolerances have been deposited with the Deutsches Institut für Bautechnik.

Table 1: Measurements of the cladding tiles "Tonality Classic 26"

Nominal height	150	175	200	225	250	300	400
Maximum length [mm]	1200	1200	1600	1600	1600	1600	1600

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- The basis weight must correspond to the indications of Table 2.

Table 2: Basis weight of the cladding tiles "Tonality Classic 26"

Nominal height	150	175	200	225	250	300	400
Basis weight [kg/m ²]	33±3	31±3	34±3	32±3	36±3	35±3	36±3

- The values of the breaking loads according to Table 3 must be reached in the course of the testing according to Annex 7 (three-point bending test following DIN EN 100)

Table 3: Minimum requirements to the bending strength of the cladding tiles "Tonality Classic 26"

Nominal height	150	175	200	225	250	300	400
Breaking load [kN] on loading the front	1.54	1.79	2.10	2.43	2.62	3.10	4.82
Breaking load [kN] on loading the reverse	2.66	2.74	3.73	2.63	5.62	5.65	6.67

- The cladding tiles "Tonality Classic 26" must be frost-resistant in the course of the testing according to DIN EN 539-2, Procedure B.

2.2.2 Support frames

The cross section geometry of the support frames must comply with the indications of Annexes 4 to 6.2. The length of the support frames may not exceed 2.80 m.

2.2.2.1 "Classic Profiles (CLS)"

The "Classic profiles (CLS)" according to Annex 4 must be manufactured of the aluminum alloy EN AW 6060 according to DIN EN 755-2, material condition T66.

2.2.2.2 "Adaptive profiles (ADS)"

The "Adaptive profiles (ADS)" according to Annexes 5.1 and 5.2 must be manufactured of the aluminum alloy EN AW 5083 H24 according to DIN EN 485-2.

2.2.2.3 "Basic clinch rail profile (BAS)" and load-bearing profiles

The "Basic clinch rail profiles (BAS)" according to Annex 6.1 and 6.2 must represent a composite profile consisting of a "basic profile" made of the aluminum alloy EN AW 5083 H24 according to DIN EN 485-2 and a "joint profile" made of the aluminum alloy EN AW 5754 according to DIN EN 755-2.

The basic profile must be connected with the joint profile according to Annex 6.2 via 2 adjoining connection points (hereafter "clinch points"). These interlocking connections must be effected using the Tog-L-Loc® sheet metal joining system in accordance with the information deposited with the DIBt. The clinch points (connections) must be arranged at a distance that corresponds to the simple nominal tile height.

In case of a shortening of the profile, a constructive connection of both partial profiles must be effected at a distance of 5 cm from the new end of the profile by means of two symmetrically arranged connections. The drilling screws JT9-4-4.8x19 according to the national technical approval no. Z-14.1-537, Annex 3.1.10, made of rustproof steel, building material no: 1.4401 or the blind rivet Tonalität 4.8 x 10 K9.5 according to Annex 8 must be used for said connection purposes here.

Each basic clinch rail profile must be mechanically fastened onto a vertical symmetric bearing profile of aluminum (reinforcement profile) with a supporting surface in the form of a profile flange of at least 70 mm width, a minimum profile thickness of 2 mm and minimum moments of inertia of $I_y \geq 5.41 \text{ cm}^4$ and $I_z \geq 5.72 \text{ cm}^4$ (e.g. T-profile: 70/50/2, made of the aluminum alloy EN AW 6060 according to DIN EN 755-2, material condition T66).

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The above mentioned drilling screws JT9-4-4.8x19 or the blind rivet Tonalität 4.8 x 10 K9.5 must be used as fasteners. Two screws or blind rivets must be arranged next to each other per each connection point. The vertical distance of the connection points must amount to the simple nominal tile height in case of tiles with nominal heights between 300 and 400 and to either the simple or the double nominal tile height in case of nominal tile heights between 150 and 250 (see Annex 6.2).

2.2.3 Joint profiles

The joint profiles for the "Classic system (CLS)" must be manufactured of neoprene and meet the requirements of normal inflammable building materials.

The joint profiles for the "Adaptive system (ADS)" and of the "Basic clinch rail system (BAS)" must be manufactured of aluminum.

2.2.4 Façade system "Tonality Classic 26"

The façade system "Tonality Classic 26" may only consist of the building products according to Sections 2.2.1 to 2.2.3. The installation of the façade system "Tonality Classic 26" can be taken from the descriptions of the Annexes 1 and 2.

2.3 Manufacturing, packing, transportation, storage and marking

2.3.1 Manufacturing

The construction products according to Sections 2.1 to 2.2.3 must be produced by the manufacturer.

2.3.2 Packing, transportation, storage

The construction products according to Sections 2.1 to 2.2.3 must be stored and protected against damaging following the instructions of the manufacturer.

2.3.3 Marking

The manufacturer is required to apply a conformity mark (Ü-mark) in accordance with the Ordinances on Conformity Marks of the individual Laender to the construction products according to Sections 2.1 to 2.2.3, the respective packaging material, instruction leaflets or delivery notes. Marking may only be effected, if the preconditions according to Section 2.4 are met.

2.4 Attestation of conformity

2.4.1 General remarks

2.4.1.1 Attestation of conformity through presentation of certificate

The attestation of the conformity of the cladding tiles "Tonality Classic 26" according to Section 2.2.1 with the specifications of this national technical approval must be effected for every production place through presentation of a conformity certificate on the basis of the factory production control and of a regular third party inspection, and include an initial inspection of the construction product in accordance with the following provisions.

For the granting of the certificate of conformity and the third party inspection, including the product testing to be effected on this occasion, the manufacturer of the cladding tiles "Tonality Classic 26" shall call in a competent certification as well as a competent inspection body.

The declaration that a certificate of conformity has been issued must be made by the manufacturer by marking his construction products with the conformity mark (Ü-mark) emphasizing their designated use.

The certification body shall submit the Deutsches Institut für Bautechnik a copy of the granted certificate of conformity for its information.

The Deutsches Institut für Bautechnik shall receive a copy of the initial inspection report for its information.

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2.4.1.2 Attestation of conformity through manufacturer's certificate and initial inspection

The confirmation of conformity of the support frames according to Sections 2.2.2.1 to 2.2.2.3, of the profiled joints according to Section 2.2.3 and of the blind rivet according to Section 2.2.2.3 with the provisions of this national technical approval must be effected for every production plant by means of a manufacturer's certificate on the basis of a factory production control and of an initial inspection of the construction products in accordance with the following provisions.

The manufacturer of the construction products shall call in a competent inspection body for the purpose of the initial inspection.

The declaration of conformity must be made by the manufacturer by marking his construction products with the conformity mark (Ü-mark) emphasizing their designated use.

The Deutsches Institut für Bautechnik shall receive a copy of the initial inspection report for its information.

2.4.2 Factory production control

A factory production control shall be set up and carried out at each production place. Factory production control shall be understood as the continuous surveillance of production carried out by the manufacturer in order to ensure that the construction products he manufactures correspond to the provisions and requirements of this national technical approval.

The factory production control should include at least the measures mentioned in Annex 7.

The results of the factory production control must be recorded, analysed and evaluated. The report must include at least the following information:

- Description of the construction product respectively of the basic material and of the components
- Kind of inspection or testing
- Date of manufacturing and inspection of the construction product respectively of the basic material or components
- Inspection and test results and, if applicable, comparison with the requirements
- Signature of the person in charge of factory production control

The report shall be archived for a period of at least five years and presented to the inspection body called in for the purpose of third party inspection. It shall be presented to the Deutsches Institut für Bautechnik and to the competent and highest building inspection authority on request.

In case of unsatisfactory testing results, the manufacturer shall take immediate action to remedy the fault. Construction products which do not meet the requirements shall be handled adequately in order to ensure that the possibility of confusion with conforming products is ruled out. The respective test shall be repeated immediately after the remedy of the fault – as far as technically possible and required in order to prove that the fault has been remedied.

2.4.3 Third party inspection

A factory production control shall be carried out regularly in each production place by a third party inspection body, at least twice per year.

An initial inspection of the cladding tiles "Tonality Classic 26" shall be carried out as part of the third party inspection. Random sampling shall be included. Taking samples and testing shall be considered the responsibility of the authoritative inspection body.

The testing of the cladding tiles "Tonality Classic 26" shall be carried out according to Annex 7.

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The certification and third party inspection results shall be archived for a period of at least five years. On request, the certification respectively the inspection body shall present them to the Deutsches Institut für Bautechnik and to the competent and highest building inspection authority.

2.4.4 Initial inspection through an acknowledged inspection body

The measurements and material characteristics of the support frames, the connections and of the joint profiles shall be tested according to Section 2.2.2 and 2.2.3, as well as Annexes 4 to 6.2 and Annexes 7 and 8 as part of the initial inspection.

3 Provisions for design and calculation

3.1 Proof of steadiness

3.1.1 Cladding tiles and their fastening

The proof of steadiness of the cladding tiles "Tonality Classic 26" according to Section 2.2.1 and their mounting as single span girders through interlocking onto the aluminium support frames according to Section 2.2.2 must be produced under observance of the following regulations in relation to the respective building.

In case of an arrangement of several support frames (maximum length of each profile: 2.80 m, see Section 2.2.2) one above the other, the distance between the fixed points of two successive support frames may not exceed 2.80 m.

The joints of the support frames may not be covered by cladding tiles.

The butt joint of the cladding tiles at profile joint must be at least 6 mm.

The deflection margins of the support frames and of the profiles of the sub-construction according to Section 3.1.2 must be observed.

The maximum bearing distances of the cladding tiles that depend on the nominal height (from 150 to 400) of the cladding tiles "Tonality Classic 26", the kind of load (wind pressure / wind suction) and the support frame system used (Adaptive system "ADS", Classic system "CLS" or Basic clinch rail system "BAS") are indicated in Tables 4 to 7. The wind loads indicated in Tables 4 to 7 represent the characteristic wind loads according to DIN 1055-4. Linear interpolation is allowed between two adjacent table values.

Table 4: Maximum bearing distances of the cladding tiles "Tonality Classic 26" in case of positive wind pressure for the "ADS", "CLS" and "BAS" systems

Positive wind pressure [kN/m ²]	+ 0.50	+ 0.80	+ 1.00	+ 1.50	+ 2.00	+2.50	+ 3.00
Maximum bearing distances [m]							
Tile 150	1.20	1.20	1.20	1.20	1.10	0.98	0.89
Tile 175	1.20	1.20	1.20	1.20	1.10	0.98	0.89
Tile 200	1.60	1.60	1.60	1.28	1.10	0.99	0.90
Tile 225	1.60	1.60	1.60	1.30	1.12	1.00	0.92
Tile 250	1.60	1.60	1.60	1.27	1.10	0.99	0.90
Tile 300	1.60	1.60	1.60	1.26	1.10	0.98	0.89
Tile 400	1.60	1.60	1.60	1.37	1.18	1.06	0.97

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Table 5: Maximum bearing distances of the cladding tiles "Tonality Classic 26" in case of negative wind pressure (wind suction) for the "ADS" and "CLS" systems

Negative wind pressure [kN/m ²]	- 0.50	- 0.80	- 1.00	- 1.50	- 2.00	- 2.50	- 3.00
Maximum bearing distances [m]							
Tile 150	1.20	1.20	1.20	1.20	1.20	1.01	0.84
Tile 175	1.20	1.20	1.20	1.20	1.20	1.20	1.10
Tile 200	1.60	1.60	1.60	1.60	1.35	1.08	0.90
Tile 225	1.60	1.60	1.60	1.35	1.11	0.89	0.74
Tile 250	1.60	1.60	1.60	1.60	1.20	0.96	0.80
Tile 300	1.60	1.60	1.60	1.27	0.95	0.76	0.63
Tile 400	1.60	1.60	1.28	0.85	0.64	0.51	0.43

Table 6: Maximum bearing distances of the cladding tiles "Tonality Classic 26" in case of negative wind pressure (wind suction) for the "BAS" system with screw connection

Negative wind pressure [kN/m ²]	- 0.50	- 0.80	- 1.00	- 1.50	- 2.00	- 2.5	- 3.00
Maximum bearing distances [m]							
Tile 150 a) or b)	1.2	1.2	1.2	1.16	0.87	0.69	0.58
Tile 175 a) or b)	1.20	1.20	1.20	0.97	0.73	0.58	0.49
Tile 200 a) b)	1.60 1.60	1.60 1.60	1.60 1.20	1.60 0.80	1.30 0.60	1.04 0.48	0.87 0.40
Tile 225 a) b)	1.60 1.60	1.60 1.36	1.60 1.02	1.35 0.68	1.11 0.51	0.89 0.41	0.74 0.34
Tile 250 a) b)	1.60 1.60	1.60 1.10	1.60 0.83	1.36 0.55	1.02 0.41	0.82 0.33	0.68 0.28
Tile 300 a)	1.60-	1.60	1.60	1.11	0.83	0.67	0.56
Tile 400 a)	1.60	1.60	1.20	0.80	0.60	0.48	0.40
a) Distance of the screw connections = 1 x nominal tile height b) Distance of the screw connections = 2 x nominal tile height							

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Table 7: Maximum bearing distances of the cladding tiles "Tonality Classic 26" in case of negative wind pressure (wind suction) for the "BAS" system with rivet connection

Negative wind pressure [kN/m ²]	- 0.50	- 0.80	- 1.00	- 1.50	- 2.00	- 2.5	- 3.00
Maximum bearing distances [m]							
Tile 150 a)	1.20	1.20	1.20	1.20	1.15	0.92	0.77
Tile 175 a)	1.20	1.20	1.20	1.12	0.84	0.67	0.56
Tile 200 a) b)	1.60 1.60	1.60 1.60	1.60 1.29	1.60 0.86	1.35 0.65	1.08 0.52	0.90 0.43
Tile 225 a) b)	1.60 1.60	1.60 1.36	1.60 1.02	1.35 0.68	1.11 0.51	0.89 0.41	0.74 0.34
Tile 250 a) b)	1.60 1.60	1.60 1.10	1.60 0.83	1.60 0.55	1.20 0.41	0.96 0.33	0.80 0.28
Tile 300 a)	1.60	1.60	1.60	1.27	0.95	0.76	0.63
Tile 400 a)	1.60	1.60	1.28	0.85	0.64	0.51	0.43
a) Distance of the rivet connections = 1 x nominal tile height b) Distance of the rivet connections = 2 x nominal tile height							

The respective maximum bearing distances under wind pressure loads according to Table 4 and the maximum bearing distances under wind suction loads according to Table 5 or Table 6 or table 7 (depending on the kind of execution) are indicated for each nominal tile height; the smaller value shall prevail.

The wind loads that have an effect result from DIN 1055-4. In case of overhead laying (ceiling cladding), the wind loads must be corrected observing the self-weight of the cladding tiles taking effect in wind direction according to DIN 1055-4. It is not admissible to use blind rivets in the event that the BAS profile system is used for ceiling cladding.

3.1.2 Support frames, sub-construction joints and anchorage

The steadiness of the support frames and of the sub-construction, as well as their anchorage onto the building shall be proven in accordance with the Technical Construction Regulations in relation to the building. The bending (deflexion/deformation) of the sub-construction and of the support frames shall be restricted to $L/200$ (L = bearing distance of the profiles). The bending of the projecting components of the sub-frame shall be restricted to $L/150$.

The joint profiles of the ADS and CLS profile systems do not have any bearing function.

The proof of steadiness of the basic clinch rail profile (BAS basic profile + BAS joint profile) as well as for the connection between the basic clinch rail profile reinforcement profile under observance of the indications of Section 2.2.2.3 as well as according to Annexes 6.1 and 6.2 has been produced for the BAS profile system in the course of the technical approval procedure.

In case of using other screws, which must be made of rustproof steel A4, proof must be produced that a combined loading of a transverse load $F_Q = 0.29$ kN/pair of screws and a tensile load $F_Z = 0.53$ kN/pair of screws can be distributed with threefold safety. It must be possible to distribute a combined loading of a transverse load $F_Q = 0.29$ kN/pair of rivets and a tensile load $F_Z = 1.28$ kN/pair of rivets with threefold safety, if other blind rivets of aluminum or of rustproof steel A4 are used.

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In case of the proof of steadiness of the support profile (reinforcement profile) according to Section 2.2.2.3, a composite effect with the basic clinch rail profile it is not allowed.

3.2 Thermal protection and protection against moisture subject to climate conditions

DIN 4108-2 shall apply for thermal protection.

The layer of air (ventilation gap) and the cladding tile may not be taken into account with the calculation of the thermal resistance (R-value) according to DIN EN 6946 for the construction of the external wall.

The coefficient of thermal conduction according to DIN V 4108-4³:2007-06, Table 2, Category I must be used for the furnishing of the proof of thermal protection for the used insulation material. A coefficient according to Category II is applicable for insulation material

³ DIN V 4108-4:2007-06: Thermal insulation and energy economy in buildings – Part 4: Hygrothermal design values

for which a limit λ_{grenz} has been determined in the course of a proof of conformity on the basis of a national technical approval.

Thermal bridges created by the sub-frame and its anchoring as a consequence of the fact that the thermal insulation is penetrated or reduced in its thickness, shall be taken into account.

DIN 4108-3 shall apply for the proof of protection against moisture subject to climate conditions.

3.3 Fire protection

The cladding system "Tonality Classic 26" is non-inflammable and thus meets the respective requirement.

3.4 Sound insulation

DIN 4109 including Supplement 1 to DIN 4109 shall apply for the proof of sound insulation (protection against external noise).

4 Provisions pertaining to execution and mounting

Only the construction products according to Section 2.2.1 to 2.2.3 shall be used for the execution of the cladding system.

The sub-construction shall be mounted without technical constraints. The requirements resulting from the proofs of steadiness (see Section 3.1) must be observed.

Each cladding tile "Tonality Classic 26" shall be mounted through positive locking in accordance with the indications of Annexes 1 to 6 as single span girders onto the support frames.

The vertical gaps between the cladding tiles "Tonality Classic 26" must be backed with the profiled joints according to Section 2.2.3 as protection against driving rain and as constructive stabilisation of the position of the cladding tiles.

In the event of overhead laying of the cladding tiles as ceiling cladding (execution only possible in connection with the ADS or BAS support profile systems), a mechanical stabilization of the position of the tiles must be provided for as protection against the sliding of the support profiles.

It shall not be permitted to use damaged cladding tiles.

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List of Annexes

Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Overview System CLS	ANNEX 1 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Overview Horizontal sections	ANNEX 2 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-150	ANNEX 3.1 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-175	ANNEX 3.2 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-200	ANNEX 3.3 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-225	ANNEX 3.4 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-250	ANNEX 3.5 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-300	ANNEX 3.6 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Cladding tile C26-400	ANNEX 3.7 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010

Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Classic profile (CLS)	ANNEX 4 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Adaptive profile (ADS) Cross sections	ANNEX 5.1 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Adaptive profile (ADS) Side view	ANNEX 5.2 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Basic clinch rail profile (BAS) Cross section	ANNEX 6.1 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Basic clinch rail profile (BAS) Side view, fastening distances	ANNEX 6.2 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Factory production control	ANNEX 7 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
Eternit AG Im Breitspiel 20 D-69126 Heidelberg	Façade system „TONALITY®“ - Classic 26 Blind rivet 4.8x10 K 9.5	ANNEX 8 of the National Technical Approval Nr. Z-33.1.1234 dated June 24, 2010
- Legal basis for the granting of National Technical Approvals according to the <u>Building Laws of the German Laender</u>		
- Specimen of an ordinance pertaining to the conformity mark		

End of Translation

Translator's Remarks

The information and data printed in italics and enclosed by square brackets refer to the document as such, e.g. indications of stamps, signatures, etc., and have been included by the translator. This is a translation of the German original which shall prevail in case of dispute.