Deutsches Institut für Bautechnik

Anstalt des öffentlichen Rechts

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Ermächtigt und notifiziert gemäß Artikel 10 der Richtlinie des Rates vom 21. Dezember 1988 zur Angleichung der Rechts- und Verwaltungsvorschriften der Mitgliedstaaten über Bauprodukte (89/106/EWG)

DIBt

Mitglied der EOTA

European Technical Approval ETA-04/0041

English translation prepared by DIBt, the original version is in German

Handelsbezeichnung *Trade name*	**BP Bitumenschindeln** *BP Bitumen shingles*
Zulassungsinhaber *Holder of approval*	**Nampac Building Products Inc.** **3333 Cavendish Blvd. Suite 300** **Montreal, Quebec** **KANADA H4B 2M5**
Zulassungsgegenstand und Verwendungszweck *Generic type and use of construction product*	**Bitumenschindeln mit Zelluloseeinlage** *Bitumen shingles with cellulose reinforcement*
Geltungsdauer vom *Validity from* bis *to*	**21. Dezember 2004** **21. Dezember 2009**
Herstellwerk *Manufacturing plant*	**Nampac Building Products Inc.** **9510 rue St. Patrick** **Lasalle, Quebec** **KANADA H8R 1R9** **Nampac Building Products Inc.** **3703 - 101 Ave.** **N.E.P.O. Box 576** **Edmonton, Alberta** **KANADA T5J 2K8**
Diese europäische technische Zulassung umfasst *This European Technical Approval contains*	10 Seiten einschließlich 3 Anhänge *10 pages including 3 annexes*

I LEGAL BASES AND GENERAL CONDITIONS

1 This European technical approval is issued by Deutsches Institut für Bautechnik in accordance with:

- Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of Member States relating to construction products[1], amended by the Council Directive 93/68/EEC of 22 July 1993[2];
- *Gesetz über das In-Verkehr-Bringen von und den freien Warenverkehr mit Bauprodukten zur Umsetzung der Richtlinie 89/106/EWG des Rates vom 21. Dezember 1988 zur Angleichung der Rechts- und Verwaltungsvorschriften der Mitgliedstaaten über Bauprodukte und anderer Rechtsakte der Europäischen Gemeinschaften (Bauproduktengesetz - BauPG) vom 28. April 1998[3];*
- Common Procedural Rules for Requesting, Preparing and the Granting of European technical approvals set out in the Annex of Commission Decision 94/23/EC[4];
- Common Understanding of Assessment Procedure for European technical approval (CUAP) of "Bitumen shingles with cellulose reinforcement", Version June 2002, ETA request N° 04.02/12.

2 Deutsches Institut für Bautechnik is authorized to check whether the provisions of this European technical approval are met. Checking may take place in the manufacturing plant. Nevertheless, the responsibility for the conformity of the products to the European technical approval and for their fitness for the intended use remains with the holder of the European technical approval.

3 This European technical approval is not to be transferred to manufacturers or agents of manufacturers other than those indicated on page 1, or manufacturing plants other than those indicated on page 1 of this European technical approval.

4 This European technical approval may be withdrawn by Deutsches Institut für Bautechnik, in particular after information by the Commission on the basis of Article 5 (1) of Council Directive 89/106/EEC.

5 Reproduction of this European technical approval including transmission by electronic means shall be in full. However, partial reproduction can be made with the written consent of Deutsches Institut für Bautechnik. In this case partial reproduction has to be designated as such. Texts and drawings of advertising brochures shall not contradict or misuse the European technical approval.

6 The European technical approval is issued by the approval body in its official language. This version corresponds to the version circulated within EOTA. Translations into other languages have to be designated as such.

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1 Official Journal of the European Communities N° L 40, 11.02.1989, p. 12

2 Official Journal of the European Communities N° L 220, 30.08.1993, p. 1

3 *Bundesgesetzblatt I, p. 812, zuletzt geändert durch Gesetz* ('last amended by law on') *vom 15.12.2001, Bundesgesetzblatt I, p. 3762*

4 Official Journal of the European Communities N° L 17, 20.01.1994, p. 34

II SPECIFIC CONDITIONS OF THE EUROPEAN TECHNICAL APPROVAL

1 Definition of product and intended use

1.1 Definition of product

This ETA covers bituminous shingles composed of a flat bitumen saturated reinforcement made of cellulose fibres, coated on both sides with inorganic mineral stabilized oxidized bitumen and surfaced on the upperside with mineral granules and on the underside with fine inorganic powder. These products may be rectangular or square in shape with dimensions of 1200 mm maximum in length, 300 mm minimum in width and 3.4 mm minimum in thickness. They may have interlocking and overlay features, may be separated by slits or cutouts into several tabs that may be angular or scalloped. These products may have a factory applied, thermally activated, self-sealing adhesive on the mineral granule side and a protection strip on the underside; see Annex 1.

1.2 Intended use

The shingle products are intended to act as a water-shedding element on pitched roofs and as protective covering of the roof deck from weathering elements such as rain-water, snow, ice, wind-born dust, UV radiation and others. Requirements concerning safety in case of fire, hygiene, health and the environment, and safety in use as well as the durability in the sense of the essential requirements N° 2 to N° 4 of the Directive 89/106/EEC shall be satisfied.

The standard application of the shingles on roof decks is shown in Annex 2. The shingles shall be nailed to the substrate as shown in Annex 3.

In the manufacturer's technical dossier[5] (MTD) to this European technical approval (ETA) the manufacturer gave information on how to apply the bitumen shingles.

The minimum pitch of the roof shall be 20°. The surface is not accessible without protection and security equipment.

The bitumen shingles can be used for any wood based blank substrates and any non-combustible substrate with a joint width 5 mm at the most.

The verifications which are the basis of this ETA give reason for the assumption of an intended working life of the bitumen shingles of at least 10 years, provided that the bitumen shingles are subject to appropriate installation, use and maintenance. These provisions are based upon the current state of the art and the available knowledge and experience.

“Assumed intended working life” means that it is expected that, when this working life has elapsed, the real working life may be, under normal use conditions, considerably longer without major degradation affecting the essential requirements.

The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

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5 The manufacturer's technical dossier (MTD) comprises all information necessary for the production and the installation of the product as well as for the repair of the roof covering made from that. It was checked by DIBt and it was found to be in accordance with the conditions stated in the approval and the characteristic values determined during the approval testing.
The part of the MTD to this ETA to be treated confidentially (inter alia the control plan for factory production control and initial type-testing) is deposited with DIBt and, as far as this is relevant to the tasks of the approved body involved in the procedure of attestation of conformity, shall be handed over to the approved body.

2 Characteristics of the product and methods of verification

2.1 Characteristics of the product

The bitumen shingles are specified in Part II section 1 and have the characteristics listed in Annexes 1 to 3.

The bitumen shingles show the characteristic values with respect to the permissible tolerances which are stated in the MTD to this ETA.

The chemical composition and the characteristic values of the bitumen shingles and the manufacturing methods are confidential and deposited with DIBt.

The ETA is issued for the product on the basis of the product composition deposited with DIBt. Changes to the product or in the production process of the product, which could result in the production process and/or the properties of the product deposited being incorrect should be notified to DIBt before the changes are introduced. DIBt will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment/alterations to the ETA shall be necessary.

2.2 Methods of verification

Assessment of the fitness of the bitumen shingles for the intended use with regard to the essential requirements N° 2 to N° 4 was performed following the CUAP "Bitumen shingles with cellulose reinforcement", ETA request N° 04.02/12.

According to the manufacturer's declaration the bitumen shingles do not contain any dangerous substances taking account of the EU database[6].

Within the scope of this approval there may be other requirements applicable to dangerous substances resulting from transposed European legislation or applicable national regulations and administrative provisions.

There may be other requirements applicable to the products resulting from other applicable national regulations and administrative provisions.

These requirements need also to be complied with.

3 Attestation of conformity of the product and CE marking

3.1 System of attestation of conformity

The European Commission according to her decision on the procedure of attestation of conformity 98/436/EC of July 1998 (Official Journal of the European Communities N°L 194, 10 July 1998) concerning roof coverings laid down system 4 in any case for shingles. For product characteristics influencing external fire performance, system 3 was laid down and for product characteristics influencing reaction to fire system 1, 3 or 4. For bitumen shingles system 3 applies, because the criteria for system 1 and system 4 are not fulfilled. Therefore the control plan for bitumen shingles covers systems 3 and 4 for the procedure of attestation of conformity (AoC) (Annex III, clause 2(ii) second and third possibility of Council Directive 89/106/EEC).

The AoC system 3 provides:

a)	Tasks for the manufacturer:	factory production control,
b)	Tasks for the approved body:	initial type-testing of the product.

The AoC system 4 provides:

	Tasks for the manufacturer:	factory production control, initial type-testing of the product.

6 Notes are stated in Guidance Paper H: "A harmonized approach relating to dangerous substances under the Construction Product Directive", Brussels, 18. February 2000.

3.2 Responsibility

3.2.1 Tasks for the manufacturer

3.2.1.1 Factory production control (AoC systems 3 and 4)

The manufacturer shall set up a production control at his factory and perform regular controls of the production process according to the control plan[7].

This ensures that the product shows the properties stated in this ETA.

The manufacturer may only use initial materials according to the MTD. He shall inspect or control the initial materials on acceptance according to the control plan[7].

The factory production control follows the identifying properties in clause 4 of the CUAP.

The results of the factory production control shall be recorded and evaluated. The records shall include at least the following information:

- Name of the product and of the initial materials,
- type of inspection or control,
- date of manufacture of the product, batch N° if needed, and date of inspection or control of the product or of the initial materials,
- result of inspections or controls and, as far as applicable, comparison with the requirements,
- signature of the person responsible for the factory production control.

The records shall be kept for at least five years. On request they shall be presented to DIBt.

Details concerning extent, type and frequency of the tests or inspections to be performed within the scope of the factory production control shall correspond to the control plan[7].

3.2.1.2 Initial type-testing of the product (AoC system 4)

The initial type-testing refers to the product properties stated in the control plan[7] to this ETA.

The verifications underlying this ETA have been furnished on samples from the current production, these will replace the initial type-testing.

After changing the production process or starting the production in another manufacturing plant the initial type-testing shall be repeated.

In this case the necessary initial type-testing shall be carried out according to the provisions of the control plan[7] and observance of the required property values shall be ascertained.

3.2.2 Tasks for the approved body

3.2.2.1 Initial type-testing of the product (AoC system 3)

The initial type-testing executed by the approved body refers only to the product properties concerning external fire performance and reaction to fire performance stated in the control plan[7] to this ETA.

If the verifications underlying this ETA have been furnished on samples from the current production, these will replace the initial type-testing.

After changing the production process or starting the production in another manufacturing plant the initial type-testing shall be repeated.

In this case the necessary initial type-testing shall be carried out according to the provisions of the control plan[7] and observance of the required property values shall be ascertained by the approved body.

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7 The control plan is a confidential part of the MTD and deposited with DIBt and contains the required information on the factory production control and on the initial type-testing. As far as this is relevant to the tasks of the approved body involved in the procedure of attestation of conformity the control plan will be handed over to the approved body.

3.3 CE marking

The CE marking[8] shall be affixed on the packaging of the bitumen shingles or its accompanying documents. In addition to the initials "CE" the following information shall be given:

- Name or identifying mark of the manufacturer and of the factory,
- the last two digits of the year in which the CE marking was affixed,
- number of the European technical approval,
- reaction to fire: Class E ,
- external fire performance: No performance determined.

4 Assumptions under which the fitness for use of the product is given

4.1 Manufacture

The bitumen shingles are factory-made according to the procedure laid down in the MTD.

4.2 Design and execution

The standard execution of the roof covering is shown in Annex 2 and Annex 3.

The supplementing statements of the manufacturer stated in the MTD for execution and installation of the bitumen shingles on pitched roof decks shall be considered.

4.3 Installation

The fitness for use of the bitumen shingles can be assumed only, if the installation is carried out according to the installation instructions stated in the MTD by the manufacturer, in particular taking account of the following points:

- Installation by appropriately trained personnel,
- installation with the required tools and adjuvants,
- precautions during installation,
- inspecting compliance with suitable weather conditions,
- inspections during installation and of the finished bitumen shingle covered roof and documentation.

The information as to the

- method of repair on site,
- handling of waste products

shall be observed.

4.4 Manufacturer's responsibilities

It is the manufacturer's responsibility to make sure that all those who use the bitumen shingles will be appropriately informed about the specific conditions according to sections 1, 2, 4, and 5 including the Annexes to this ETA and the not confidential parts of the MTD deposited to this ETA.

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8 Notes on the CE marking are stated in Guidance Paper D "CE marking under the Construction Products Directive", Brussels, 1 August 2002.

5 Information by the manufacturer

5.1 Information on packaging, transportation and storage

Information on:

- Packaging
- transportation and
- storage

are given in the MTD.

5.2 Information on use, maintenance and repair

Information on:

- Use
- maintenance
- repair

are given in the MTD.

Dipl.-Ing. Jasch

Beglaubigt
Dr.-Ing. Mehring

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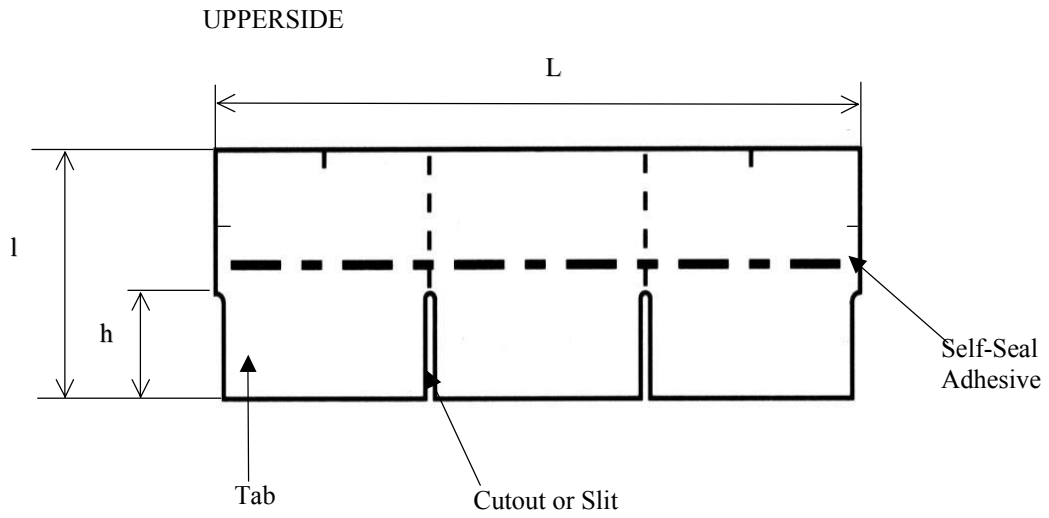
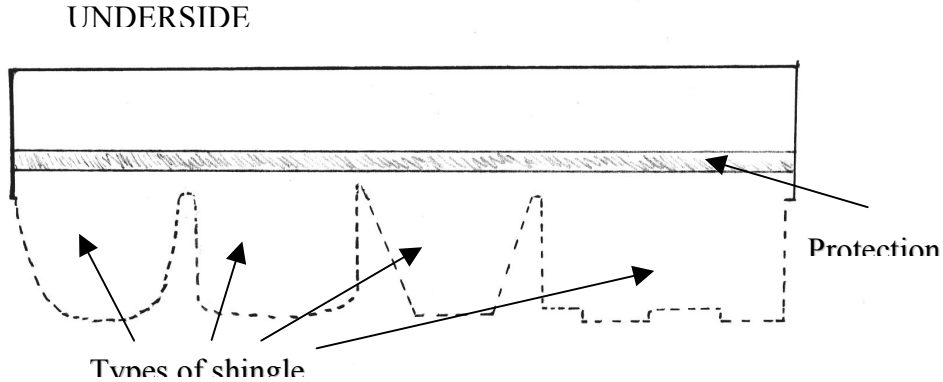
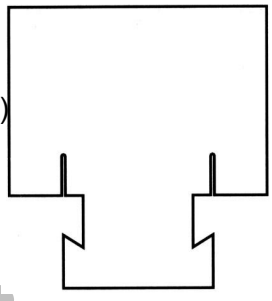
Types of "BP Bitumen shingles" and shingle tabs





Interlocking shingle (example)



Applicable for the "BP Bitumen shingles":

Assumed estimated working life		at least 10 years.
Reaction to fire	(EN 13501-1)	class E
External fire performance		no performance determined[1]
Statement on dangerous substances		does not contain any

[1] Classification of the external fire performance cannot be given as a valid EN does not yet exist. However, the existing verification should lead to the classification B_{ROOF} (t1) as indicated under prEN 13501-5 and Commission Decision 2001/671/EC.
The bitumen shingles can be used on any blank wooden planks and any non combustible substrate with gaps of 5.0 mm at the most.

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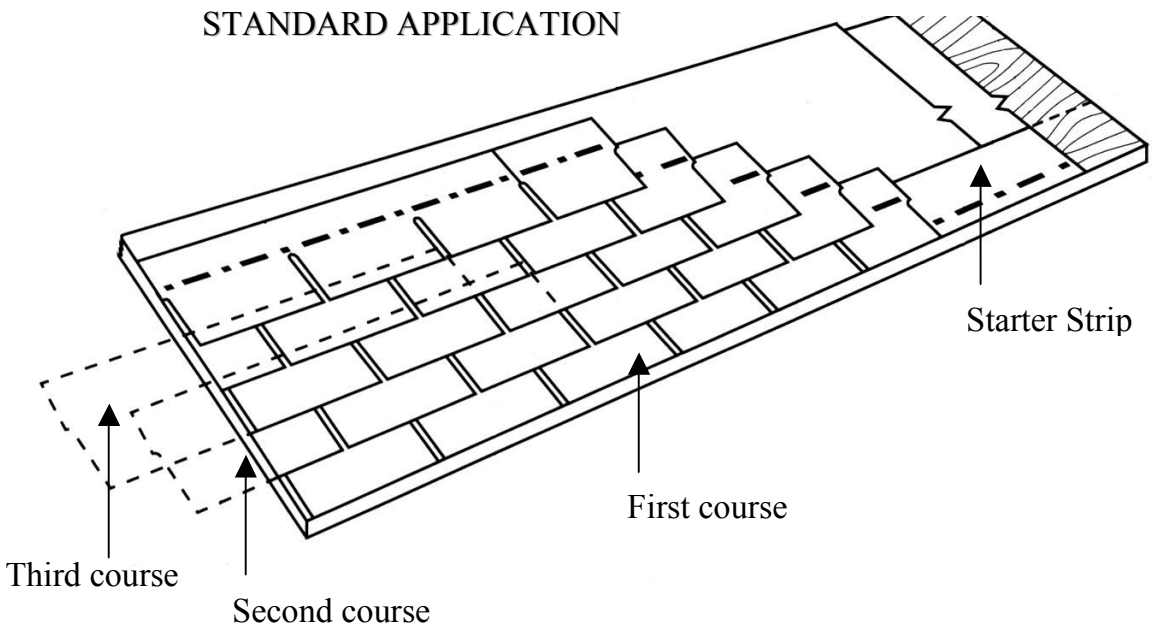
Standard application of "BP Bitumen shingles"



Roof covering with shingles (double covering with half bond) with eaves flashing

Concerning the overlap of the third row and the first row of shingles in relation to the roof pitch the regulations of the Member State of destination are to be fulfilled.

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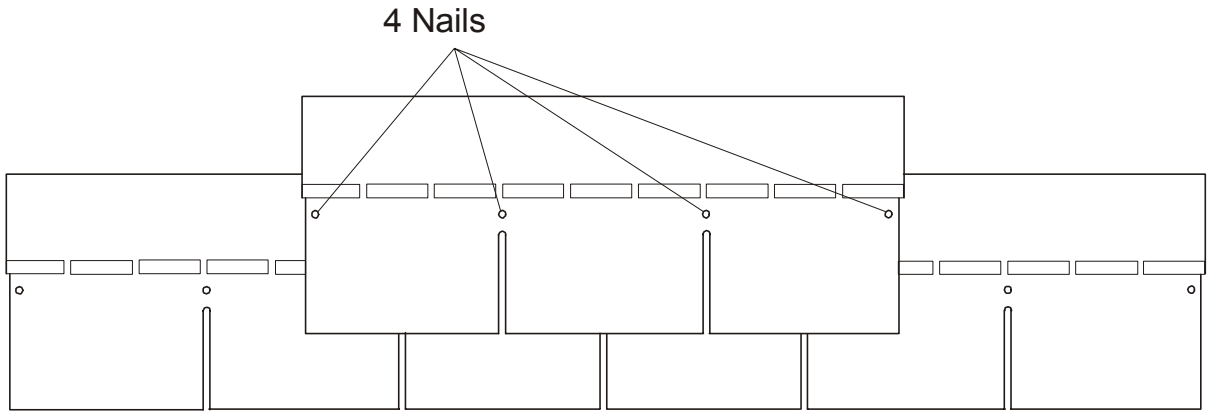
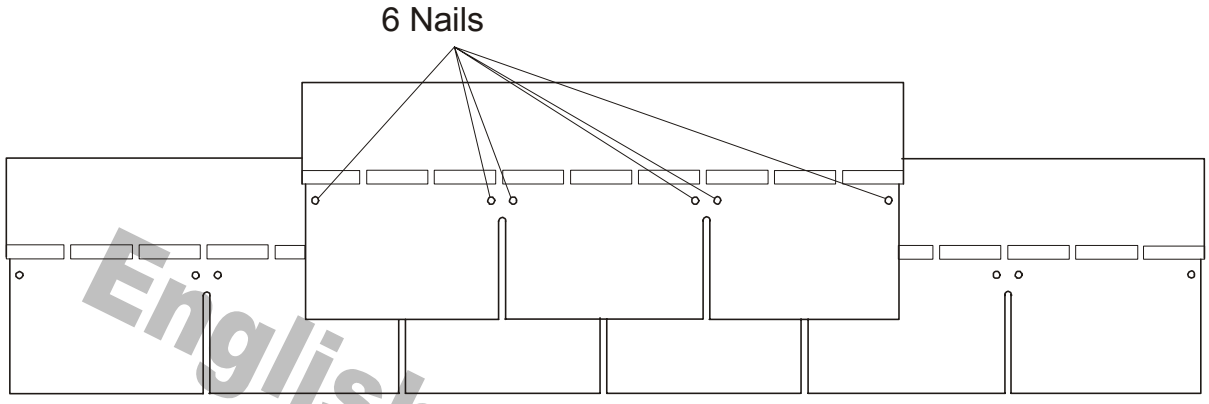
D E U T S C H E S I N S T I T U T F Ü R B A U T E C H N I K

Fixing of "BP Bitumen shingles" using nails





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