SINTEF Technical Approval

TG 20440

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Revised: 12.02.2021
Amended:
Valid until 01.12.2026
Provided listed on
www.sintefcertification.no

SINTEF confirms that

Hunton Nativo® Wood fiber Insulation Board

has been found to be fit for use in Norway and to meet the provisions regarding product documentation given in the regulation relating to the marketing of products for construction works (DOK) and regulations on technical requirements for building works (TEK), with the properties, fields of application and conditions for use as stated in this document

1. Holder of the approval

Hunton Fiber AS
Postboks 633
2810 Gjøvik
www.hunton.no

2. Product description

Hunton Nativo® Wood fiber insulation boards are thermal insulation from defibrated wood chips. Wood chips that are leftover material from timber production. The board are pressed from grinded Wood fiber and have light brown colour. Dimensions and density are described in table 1.

Table 1
Dimensions and density of Hunton Nativo® Wood fiber insulation board

Property	Test method EN	Value	Unit	Tolerance
Thickness	823	30 - 300	mm	- 5 mm / + 15 % or 15 mm
Density	1602	≈ 50	kg/m^3	44.2– 59.8 kg/m^3 [1)]
Width	822	565	mm	± 1,5 %
Length	822	870; 1220	mm	± 2,0 %

[1)] Tolerance specified according to fire classification report

3. Fields of application

Hunton Nativo® Wood fiber insulation boards can be used as thermal insulation in floors, walls, and roofs with load bearing wooden or steel structures.

Hunton Nativo® Wood fiber insulation boards satisfy pre-accepted solutions for buildings in fire class 1 (brannklasse) buildings with up to 2 stories, as well as residential buildings in risk class 4 (risikoklasse) with 3 stories if each dwelling has direct access to terrain without having to escape via stairs or staircases. For other use, the fire safety needs to be documented by analysis in each project.

4. Properties

Product properties
Product properties for Hunton Nativo® Wood fiber insulation boards are described in table 1.



Fig. 1
Hunton Nativo® Wood fiber insulation board
Figur: Hunton Fiber AS

Fire resistance
Hunton Nativo® Wood fiber insulation boards have reaction-to-fire class E according to EN 13501-1.

Durability
Hunton Nativo® Wood fiber insulation boards shape, dimension and thermal properties are rated not to change noticeably over time provided that the assembly and fields of application is as specified in the approval.

5. Environmental aspects

Substances hazardous to health and environment
Hunton Nativo® Wood fiber insulation boards contains no hazardous substances with priority in quantities that pose any increased risk for human health and environment. Chemicals with priority include CMR, PBT or vPvB substances.

Effect on indoor environment
Hunton Nativo® Wood fiber insulation boards are rated not to emit any particles, gases or radiation that have a perceptible impact on the indoor climate, or to have any significant impact on health.

Waste treatment/recycling
Hunton Nativo® Wood fiber insulation boards are sorted as wood. The product shall be delivered to an authorized waste treatment plant for energy recovery.

Environmental declaration
Environmental declaration (EPD) has been prepared in accordance with EN 15804 for Hunton Nativo® Wood fiber inulation board. For full environmental declaration, see EPD No. NEPD-2287-1041, www.epd-norge.no.

Table 1
Product properties Hunton Nativo® Wood fiber insulation board

Properties	Test method EN	Hunton Nativo® Wood fiber insulation board		Unit
		Declaration of performance[1)]	Control limit[2)]	
Class of thickness	823	T2	T2 = - 5 mm + 15 % max 15 mm	Class
Water vapour resistance factor{ μ } dry (value declared according to EN ISO 10456) wet	ISO 12086	5 3	≤ 5 ≤ 3	-
Thermal conductivity, declared, λ_D	12667	0,038	≤ 0,038	W/mK
Air flow resistivity	29053	AF_r 6	AF_r 6 6	Class kPa s/m^2
Fire classification	EN 13501-1	E	E	Class

[1)] Declared value from producers Declaration of Performance (DoP)
[2)] The control limit indicates the lowest value for the manufacturer's internal control and surveillance control.

6. Special conditions for use and installation

Safety in case of fire
On internal wall and ceiling surfaces Hunton Nativo® Wood fiber insulation boards shall be protected with cladding classified as $K_2$10 D-s2,d0 or better.

On the upper side of floors, the insulation must be protected with at least 15mm thick woodbased boards, floorboards or parquet, or boards classified as $K_2$10 D-s2,d0 or better.

The insulation does not have to be protected in cold unfurnished attics.

The insulation must also be protected in all penetrations and recesses for doors and windows, etc.

The insulation shall not continue past fire separating walls or floors, but be replaced with non-combustible material. See SINTEF Building Research Design Guide 520.255 B*ruk av brennbar isolasjon i bygninger*.

Assembly
Hunton Nativo® Wood fiber insulation boards must be protected from moisture with a wind barrier against the cold side and a vapor tight layer (Vapor barrier) on the warm side. Against cold attic rooms in small houses, etc, the insulation might be uncovered.

Immediately after installing the insulation, the vapor barrier must be installed to prevent the dehumidification of the thermal insulation and construction during the construction period.

Hunton Nativo® Wood fiber insulation boards should fit tightly against studs, rafters and sills, and without open silts in joints between board. When mounting in several layers, the board must be placed with offset joints.

In general, Hunton Nativo® Wood fiber insulation boards are to be mounted according to the principles shown in SINTEF Building Research Guide:

- *523.255 Bindingsverk av tre. Varmeisolering og tetting*
- *525.101 Isolerte skrå tretak med lufting mellom vindsperre og undertak*
- *525.102 Isolerte skrå tretak med kombinert undertak og vindsperre*
- *525.106 Skrå tretak med kaldt loft*
- *525.107 Skrå tretak med oppholdsrom på deler av loftet*
- *524.305 Skillevegger mellom rekkehus*

Transport and storage
Hunton Nativo® Wood fiber insulation boards should during transportation and storage always be protected against moisture exposure with suitable packaging.

7. Factory production control

Hunton Nativo® Wood fiber insulation board is produced by Hunton Isolasjon AS, Brennbakkvegen 15, 2822 Bybrua, Norway.

The holder of the approval is responsible for the factory production control in order to ensure that Hunton Nativo® Wood fiber insulation board is produced in accordance with the preconditions applying to this approval.

The manufacturing of Hunton Nativo® Wood fiber insulation board is subject to continuous surveillance of the factory production control in accordance with the contract regarding SINTEF Technical Approval

Hunton Fiber AS, Gjøvik has a quality system that is certified by Det Norske Veritas in accordance with EN ISO 9001, certificate no. 1000. 18372-2008-AQ-NOR-NA.

8. Basis for the approval

The evaluation of Hunton Nativo® Wood fiber insulation board is based on reports owned by the holder of the approval.

The evaluation of design and technical solutions are based on recommendations given in SINTEF Building Research Design Guides.

9. Marking

Hunton Nativo® Wood fiber insulation board should be labeled on the packaging with manufacturer, product name, date of manufacture and relevant thickness.

Hunton Nativo® Wood fiber insulation board is CE marked in accordance with EN 13171

The approval mark for SINTEF Technical Approval TG 20440 may also be used.

10. Liability

The holder/manufacturer has sole product responsibility according to existing law. Claims resulting from the use of the product cannot be brought against SINTEF beyond the provisions of Norwegian Standard NS 8402

for SINTEF



Hans Boye Skogstad
Approval Manager