

SINTEF Building and Infrastructure confirms that

Huntonit Sutak

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

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2. Product description

Huntonit Sutak is 3.2 mm thick hard fibreboards produced with two different kinds of impregnation. Huntonit Sutak Standard is asphalt-impregnated on the rough underside. Huntonit Sutak Plan is wax-impregnated on the smooth top side.

The boards are marked in Denmark as “Huntonit Undertag”.

Standard board dimension for Huntonit Sutak Standard is 1240 mm x 1600 mm. Huntonit Sutak Plan is delivered in width 1250-1600 mm and length 1600-3050 mm. Dimension tolerances for length / width are ± 2 mm/m and for thickness $\pm 0,3$ mm. The weight is $2,9 \pm 0,4$ kg/m².

The product is CE marked in accordance with EN 13986:2004 and EN 14964:2006.

3. Fields of application

The boards are used as roofing underlay in pitched timber roofs with roofing tiles layed on battens and counter battens.

4. Properties

Material and construction characteristics

The material and construction characteristics of Huntonit Sutak are shown in table 1 on page 2. The boards are in conformity with the requirements for boards type HB.H according to EN 622-2.

Tightness against penetration of rain and snow

Huntonit Sutak is installed with loose overlaps, and the tightness against rain and snow is limited, particularly when the roof pitch exceeds approx. 30 degrees. Simplified roofing underlays of this type should not be used in areas with harsh weather conditions, or as underlay beneath roofings with limited driving rain resistance.

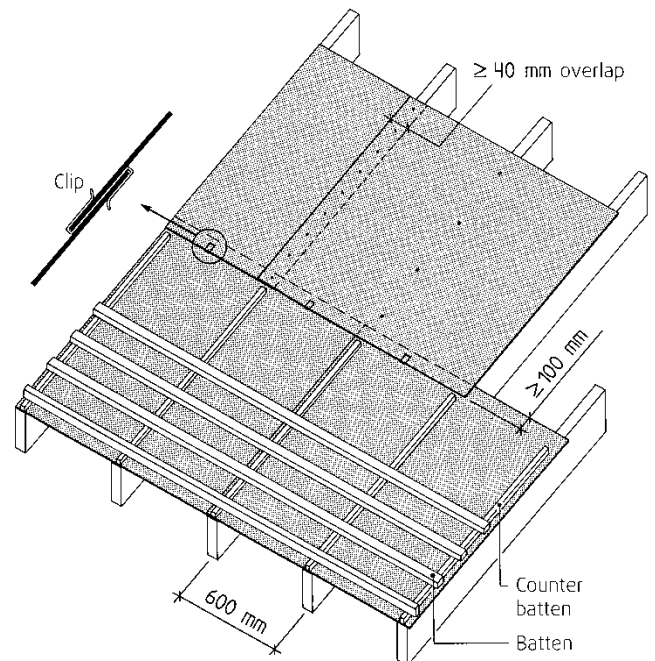


Fig. 1
 Huntonit Sutak is installed in stretcher bond pattern. Use of clips in the joints simplifies installation and reduces penetration of rain and snow.

Strength

The boards can be regarded to provide sufficient permanent wind bracing in the plane of the roof for normal lowrise houses, provided that the boards are installed as specified in section 6.

Under the same premisis the boards are considered to be safe against stepping through by accident during the construction period.

Reaction to fire

The boards are classified in class F (not tested) according to EN 13501-1

Table 1
Product properties for Huntonit Sutak Plan and Huntonit Sutak Standard.

Property	Test method	Sutak Plan		Sutak Standard		Value
		DoP ¹⁾	Control limit ²⁾	DoP ¹⁾	Control limit ²⁾	
Water tightness 24 h, 20 mm water pressure	EN 14964 EN 12467		Approved		Approved	-
Water vapour resistance (S_d value) 50/93 % RF, 23 °C	EN ISO 12572	≤ 0,28	≤ 0,28	≤ 0,36	≤ 0,36	m
Condensation absorption at 30° roof pitch	NT Build 304	0,4	0,4 ³⁾	0,4	0,4 ³⁾	kg/m ²
Swelling in thickness	EN 317	≤ 25	≤ 25	≤ 25	≤ 25	%
Tensile strength perpendicular to plane	EN 319	≥ 0,60	≥ 0,60	≥ 0,60	≥ 0,60	N/mm ²
Bending strength	EN 310	≥ 35	≥ 35	≥ 35	≥ 35	N/mm ²
Gjennomtrampmotstand	SP-Metod 0487	> 2,2	> 2,2 ³⁾	> 2,2	> 2,2 ³⁾	kN
Tensile strength perpendicular to plane after boiling	EN 319 EN 1087-1	≥ 0,30	≥ 0,30	≥ 0,30	≥ 0,30	N/mm ²
Formaldehyde class	EN 717-1		E1		E1	

¹⁾ Manufacturer's Declaration of Performance (DoP)

²⁾ Control limit for the control testing performed by the manufacturer and for audit testing

³⁾ Results from type testing

Rain tightness

Huntonit Sutak is tested according to NT Build 118, and found satisfactory under the given conditions for use and installation.

Durability

The boards are tested in climate carousel according to NS 8140 and for resistance to moisture according to EN 1087-1 with a satisfactory result. Experience from many years of use of this type of fibreboards used as wind barrier and roofing underlay has also showed that the boards have satisfactory durability. It is provided that the boards are not exposed to moisture conditions like standing water pressure.

5. Environmental aspects

Substances hazardous to health and environment

The product 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.

Environmental declaration (EPD)

No environmental declaration has been worked out for Huntonit Sutak.

Waste treatment/recycling

The product shall be sorted as wood at the building site and may be delivered at ordinary public deposits.

6. Special conditions for use and installation

Design considerations

Maximum distance between roof truss, rafters etc. is c/c 600 mm. Roof pitch must be min. 18°.

Installation

The boards are installed in stretcher bond pattern, with the impregnated side facing up.

Overlap in the transverse direction of the roof pitch shall be min. 100 mm. Overlap parallel to the roof pitch shall be min. 40 mm. To ensure satisfactory side overlap the roof truss and rafters have to be mounted rectilinear with accurate distance. Clips should be used in joints in transverse direction in order to reduce penetration of rain and snow, see figure 1.

To achieve the given wind bracing capacity and step trough resistance, the boards must be fixed with 2.8 – 25 mm or 2.8 – 35 mm cloutnails, placed with 150 mm spacing along the board edges.

The application shall follow the principles showed in Building Research Design Sheet no. 525.866.

All the edges of the boards shall be supported at roof penetrations, and all joints shall be tightened by flashings, gaskets etc. which are continuously clamped or glued to the board.

Transport and storage

The boards must be transported and stored under dry conditions.

7. Factory production control

The product is produced by Huntonit AS, Vennesla, Norge.

The holder of the approval is responsible for the factory production control in order to ensure that the product is produced in accordance with the preconditions applying to this approval.

The manufacturing of the product is subject to continuous surveillance of the factory production control in accordance with the contract regarding SINTEF Technical Approval.

Huntonit AS has a quality system which is certified according to EN ISO 9001:2015 by Intertek Certification AB, certificate No. 0064243-00.

Huntonit AS a environmental control system which is certified according to EN ISO 14001:2015 by Intertek Certification AB, certificate No. 0064244-00.

8. Basis for the approval

The approval is based on type testing, experience from many years of use and supervisory control testing according to contract for SINTEF Technical Approval. The factory production control is certified according to the requirements in EN 13986 through SINTEF Productsertification No. 1048.

Material and construction characteristics for Huntonit Sutak Plan and Huntonit Sutak Standard are documented in the following reports:

- Norges byggforskingsinstitutt. Report O8198 dated 22.11.1996 (durability and moisture properties)
- SINTEF Byggforsk. Report B08273 dated 15.11.2010 (condensation absorption for Huntonit Sutak Plan and Huntonit Sutak Standard)
- SINTEF Report 102015291-803 Hunton Sutak Plan Fresh material, dated 14.11.2017 (water vapour resistance)
- SINTEF Report 102015291-804 Hunton Sutak Standard Fresh material, dated 15.11.2017 (water vapour resistance)

9. Marking

Pallets/packages shall be marked according to requirements in EN 13986 with the manufacturer's name, product name, technical class and time of production. The approval mark for Technical Approval No. 2006 may also be used.



Approval mark

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 Byggforsk

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Approval Manager