SINTEF Technical Approval

TG 2006

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Valid until 01.09.2026
Provided listed on
www.sintefcertification.no

SINTEF 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

Byggma ASA
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2. Product description

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

The product is traded in Denmark as "Huntonit Undertag".

The clips used for installing Huntonit Sutak are manufactured by warm galvanized steel.

Table 1
Standard formats for Huntonit Sutak Standard and Huntonit Sutak Plan

Property	Type	Test method	Value	Tolerance	Unit
Thickness	Standard	EN 324-1	3,2	± 0,3	mm
	Plan				
Density	Standard	EN 323	> 900	-	kg/m³
	Plan				
Width	Standard	EN 324-1	1240	± 2mm/m	mm
	Plan		1250 1600		
Length	Standard	EN 324-1	1600	± 2mm/m	mm
	Plan		2100 2450		
Grammage	Standard	-	2,9	± 0,4	kg/m²
	Plan				

3. Fields of application

Huntonit Sutak is intended to use as roofing underlay in sloped timber roofs with roofing tiles, steel sheets or similar positioned on counter battens and battens. The product fulfils requirements as vapour open roofing underlay. In thermal insulated roofs a separate wind barrier layer needs to be used.

Huntonit Sutak can be used as roofing underlayer on roofs in buildings in hazard class 1-6 and fire class 1, 2 and 3.

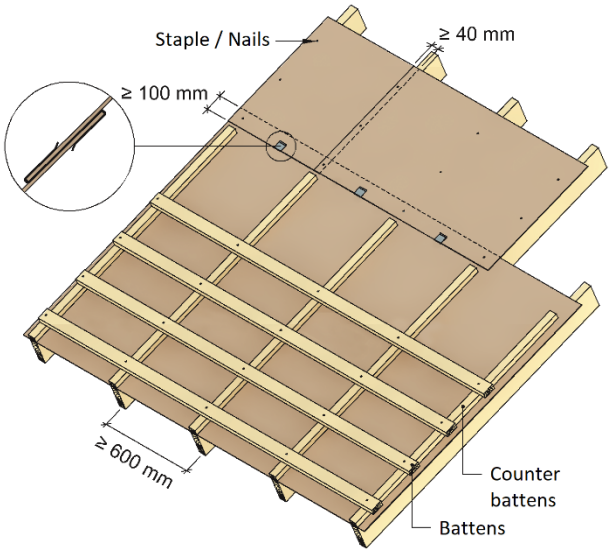

Fig. 1
Huntonit Sutak installed in bond pattern. Use of clips in the joints simplifies installation and reduces penetration of rain and snow.

Huntonit Sutak should not be used in areas with harsh weather conditions, where hazard for penetrating downpour of snow or rain is given. It should also not be used in case the roofing itself has no satisfying tightness. Danger of penetrating downpour is highest with roof slopes over approximately 30 degrees.

Huntonit Sutak can be used, together with Huntonit Luftespalte (SINTEF Technical Approval no. 2245), as wind barrier, or with Huntonit Sutett system (SINTEF Technical Approval no. 2239) as combined roofing underlay and wind barrier.

4. Properties

Material and construction characteristics

Table 2 shows important material and construction characteristics of Huntonit Sutak. The boards are in conformity with the requirements for fibreboards type HB.H according to EN 622-2.

Safety in case of fire

Reaction to fire performance for Huntonit Sutak, according EN 13501-1, has not been determined.

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

Property	Test method	Sutak Standard		Sutak Plan		Unit
		DoP[1)]	Control limit[2)]	DoP[1)]	Control limit[2)]	
Water tightness 24 h, 20 mm water pressure	EN 14964 12467		Passed		Passed	-
Water vapour resistance, s_d value 50/93 % RF, 23 °C	ISO 12572	≤ 0,36	≤ 0,36	≤ 0,28	≤ 0,28	m
Condense absorption 30° roof slope	NT Build 304	0,4	0,4 [3)]	0,4	0,4 [3)]	kg/m²
Swelling of thickness	EN 317	≤ 25	≤ 25	≤ 25	≤ 25	%
Tensile strength perpendicular to plane	EN 319	≥ 0,60	≥ 0,60	≥ 0,60	≥ 0,60	N/mm²
Bending strength	EN 310	≥ 35	≥ 35	≥ 35	≥ 35	N/mm²
Thread through resistance	SP-Method 0487	> 2,2	> 2,2 [3)]	> 2,2	> 2,2 [3)]	kN
Tensile strength perpendicular to plane after boiling	EN 622-2	≥ 0,30	≥ 0,30	≥ 0,30	≥ 0,30	N/mm2
Formaldehyde class	EN 717-1		E1		E1	

[1)] Manufacturers Declaration of Performance, DoP
[2)] Control limit shows values, product has to satisfy during internal factory production control and audit testing
[3)] Result 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.

Thread trough
Huntonit Sutak is considered to have sufficient resistance against accidental "tread through" during the construction period provided they are installed as described in chapter 6.

Durability
Huntonit Sutak is tested for accelerated artificial climate ageing according to NS 8140, and for resistance against moisture exposure according to EN 1087-1, both with a satisfactory result.

Experience from many years of this type of fibreboards, used in their field of use, has shown that they have satisfactory durability. It is provided that the boards are not exposed to moisture conditions like dammed water.

5. Environmental aspects

Substances hazardous to health and environment
Huntonit Sutak 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.

Waste treatment/recycling
Huntonit Sutak shall be sorted as wood. The boards shall be delivered to an authorized waste treatment plant for energy recycling.

Environmental declaration
No environmental declaration (EPD) has been worked out for Huntonit Sutak

6. Special conditions for use and installation

Design considerations
Maximum distance between roof trusses, rafters etc. is c/c 600 mm. The roof pitch must be min. 18°.

Installation
The boards are installed in bond pattern, see figure 1, with the impregnated side facing up. Furthermore, the manufacturers installation instructions and the principles in SINTEF Building Research Design Guide have to be followed:

- 525.866 Undertak

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 trusses and rafters have to be installed rectilinear with accurate distance.

Clips shall be used in joints in transverse direction in order to reduce penetration of rain and snow, see figure 1.

To achieve the given thread through resistance, the boards must be fixed with 2.8 – 25 mm or 2.8 – 35 mm slate nails, placed with 150 mm spacing along the board edges. The principles given in SINTEF Building Research Design Guide, instruction 525.866 shall be followed.

At roof penetrations, all edges shall be supported, 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

Huntonit Sutak is produced by Huntonit AS, Venneslavegen 233, 4700 Vennesla, Norway

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

The manufacturing of Huntonit Sutak 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 by Intertek Certification AB, certificate No. 0064243.

Huntonit AS has an environmental control system which is certified according to EN ISO 14001 by Intertek Certification AB, certificate No. 0064244.

8. Basis for the approval

The evaluation of Huntonit Sutak 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

Pallets of Huntonit Sutak shall be marked according to requirements in EN 13986 with manufacturers name, product name/technical class, date of production and reference to declaration of performance.

Huntonit Sutak is CE-marked in accordance with EN 13986 and EN 14964.

The approval mark for SINTEF Technical Approval TG 2006 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