



Softboard fastest growing 😳

• Wet production

Rigid boards 220-310kg/m³ 4-25mm building shell & underlay

Dry production

Rigid boards 110-200kg/m³ 30-300mm Building shell & insulation

Flexible boards 50kg/m³ 30-220 Insulation

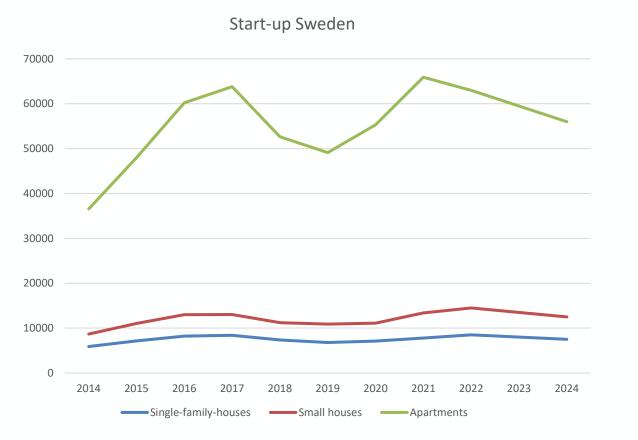










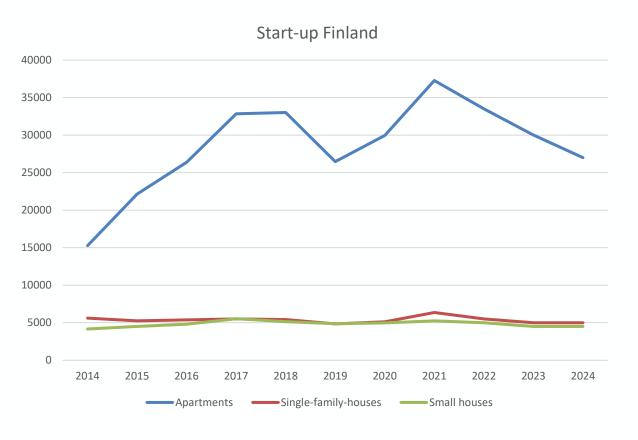


Holiday homes 600 000 units 30-90 m² 2500-3000 yearly



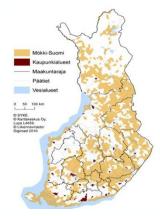


Finland



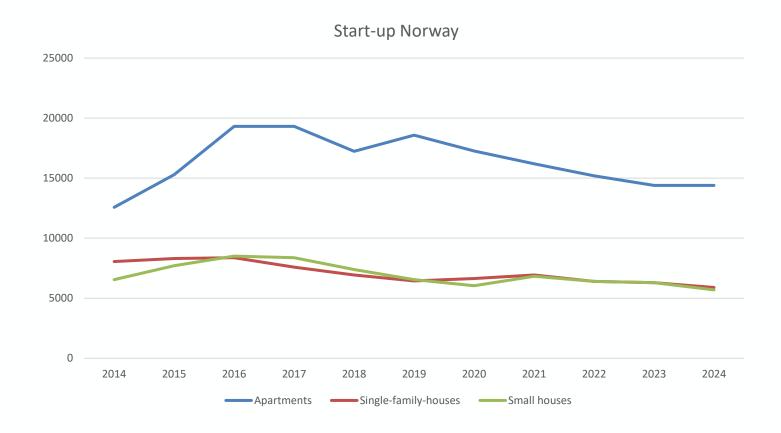
Holiday homes

- 510 000 units
- 70% between 20-60m²
- Ca 1900 yearly
- Ca 110 producers



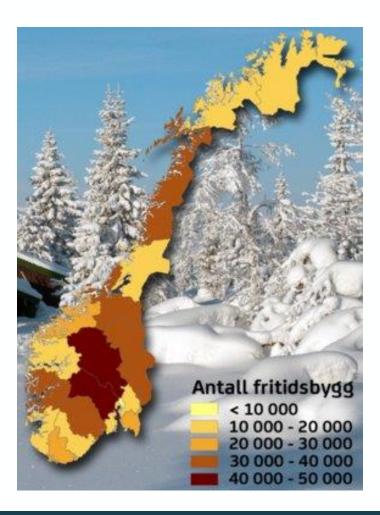


Norway





Norway – holiday homes



- 440 000 units
- 6500-7000 yearly
- -83 1600 units 62m²
- -22 6500 units 92m²
- 34% households 1 unit
- 8% households 2 units
- Ca 100 producers

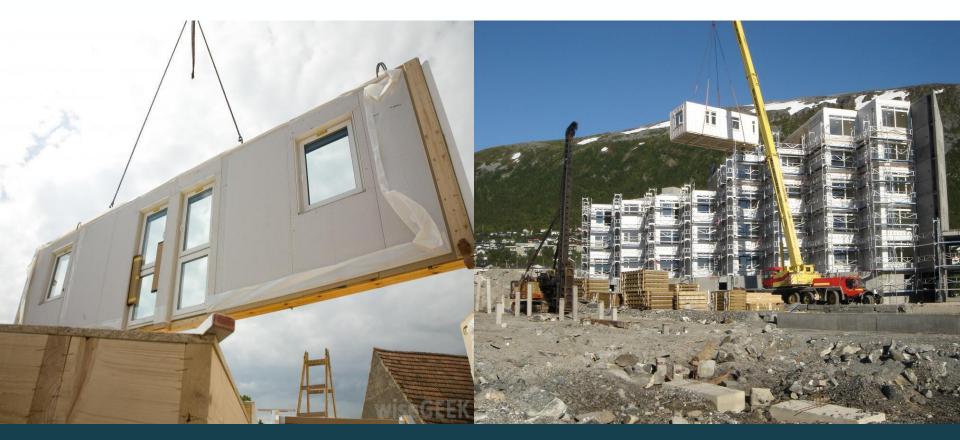


Single family hauses Change in design..... Built on site



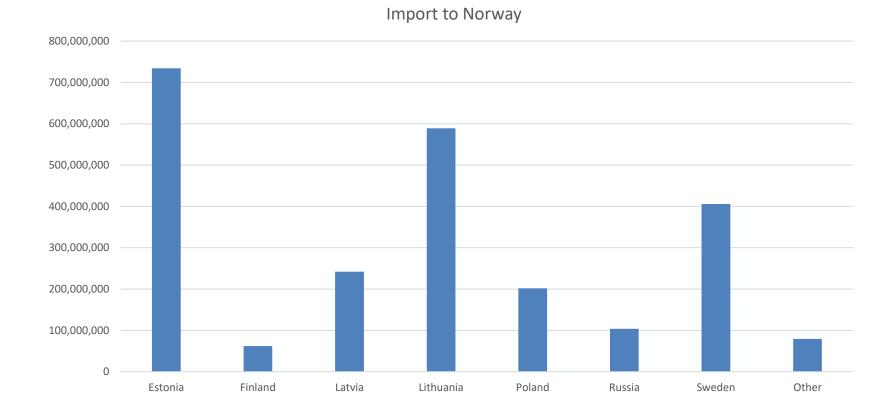


Elements & modular buildings ? % import from the Baltics





Prefab elements in Norway





UN Research states that 39% of total global emissions come from the construction sector

Global status report	Global perspectives
UN @ environment	
Towards a zero-emission, efficient, and resilient buildings and construction sector CLOBAL STATUS REPORT	Buildings and construction together account for 36% of
Table of Contents	global final energy use and 39% of energy-related carbon dioxide (CO_2) emissions when upstream power generation is included.
Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization Characterization	Progress towards sustainable buildings and construction is advancing, but improvements are still not keeping up with a growing buildings sector and rising demand for energy services.
Sector works of the sec	The energy intensity per square meter (<i>m</i> ²) of the global buildings sector needs to improve on average by 30% by 2030 (compared to 2015) to be on track to meet global climate ambitions set forth in the Paris Agreement.
* 1000 control and a standard and a	

Source: United Nations.

Public buildings in wood......

Student accodomation, Oslo

<image>

New government quarter ?



Wood Hotel, Bodø 45% less CO2-footprint



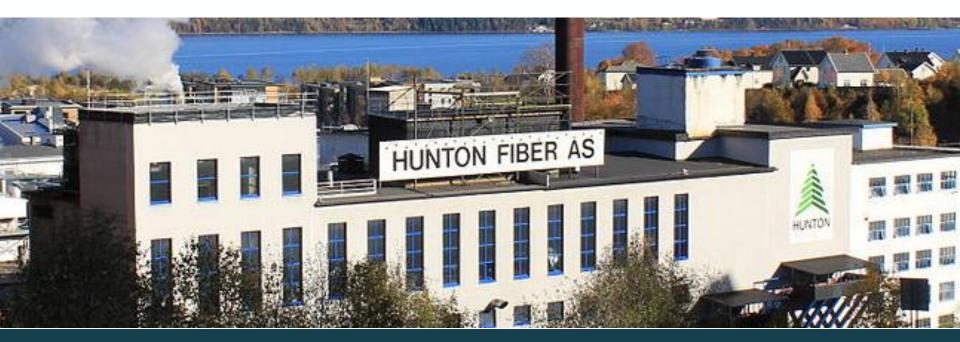


Gjøvik line – Rigid softboards

Capacity 145 000 m³

Bitumen impregnated

Hydro based power





Skjerven line - Flexible wood fiber insulation

Made of wood

Capacity 36 000 tons / 720 000 m³

Hydro based power



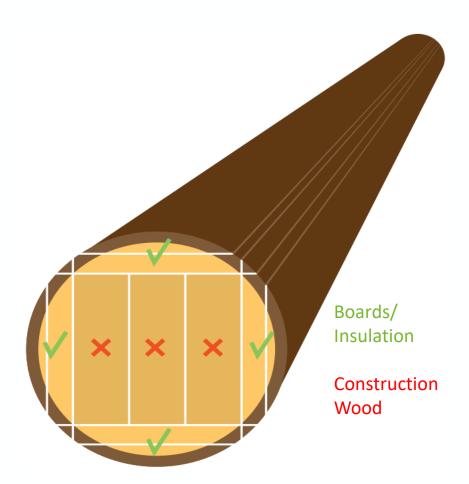


Waste as resource....

Boards and insulation are made from the outer side of log i.e. wastewood.

Woodchips from local sawmills (100km)

Ca. 80 000 m³





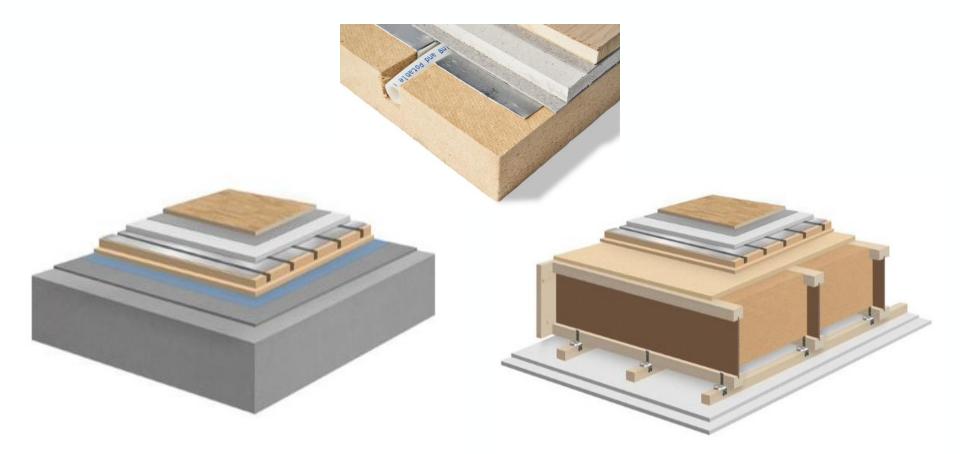
Hunton Sarket

Hunton Windproof





Hunton Silencio Thermo Sound insulation and heating in one





Nativo Wood fibre insulation

✓ Flexible insulation boards

✓ 30-300 mm thickness
 ✓ Density < 50 kg/m3
 ✓ <0,038 WmK lambda-value
 ✓ NEPD-2287-1041-NO

✓ Air insulated

✓ Loose, bulky
✓ Density in-wall 40 kg/m3
✓ Lambda value 0,038 WmK

No boric acid !!!!!!







Hunton Nativo Boards







Hunton Nativo Boards





Nativo Air insulated 18 partners in Norway





Air insulated attic





NORWEGIAN**MADE** HUNTONWALL™

HUNTON WINDPROOF 19 MM NATIVO WOOD FIBER INSULATION 200 MM DIMENSIONAL LUMBER 48 x 198 MM PROCLIMA INTELLO PLUS VAPOR CHECK NATIVO WOOD FIBER INSULATION 50 MM DIMENSIONAL LUMBER 48 x 48 MM STANDARD GYPSUM BOARD 12,5 MM

THICKNESS 275 MM



HUNTONWALL with SINTEF Technical Approval



Norwegian made products of **wood and wood fiber.**



U-Verdi

ENERGY



Hunton sound wall



- 2 x Standard gypsym 12,5
- Stud 48x98
- Hunton Nativo 100mm
- Gap 30mm
- Stud 48x98
- 2 x Standard gypsum 12,5
- Airborne sound R'w dB 66
 Lab test results Sintef,



ISO-Certifications

- ISO 50001 Energy-management
- ISO 9001 Quality-managment
- PEFC-Sustainable forest management through forest certification

DI DI	<u>&</u> ™™
DNV BUSINE	SS ASSURANCE
MANAGEMENT SY	STEM CERTIFICATE
Certificate No. 16156	50-2014-AE-NOR-RvA
This is to	certify that
Hunton	Fiber AS
Niels Ødegaards gate	8, 2815 Gjøvik, Norway
has been found to conform to the E	nergy Management System Standard:
ISO 50	001:2011
This Certificate is valid	l for the following Scope:
Development, production a Initial Certification date: 26 August 2014	and sale of woodfibreboards Place and date: Barendrecht, 27 August 2014
This Certificate is valid until: 26 August 2017	For the Isaking office: DET NORSKE VERTAS CERTIFICATION B. Zwoiseweg 1, 2994 LB Barendrech, The Netherland
The audit has been performed under the supervision of:	GMI.SYS
Astrid Broch-Due H Lead Auditor	VAUUZ4 A.E. van der Kruk-Visser Management Representative



EJF Applications

Dammam



Muscat





Peat outfaces as growing media







