

Finnforest delivers competitive solutions developed according to customer needs. The solutions are based on high-quality and ecological Nordic wood as a raw material.

Finnforest forms one of the core businesses of the Metsäliitto Group.



Metsäliitto is an international forest industry group present in some 30 countries.

It combines responsible forest economy and innovative technology to produce high-quality products and solutions from renewable Nordic wood in a sustainable way.



Wood products have a small carbon footprint.

Therefore, the load on the climate caused by building and construction will decrease when other materials are replaced with wood.



Fully renewable. Recyclable. Certified origin. Energy self-sufficient production.

Nature's own raw material – proven to be environmentally friendly

Wood products act as carbon stores. Using wood helps mitigate climate change.

Efficient use of raw material. Small environmental effects of transporting.

Our solutions for green building



Systems and solutions

Residential construction Finnjoist Passive House concept

Residential and non-residential construction Kerto® multistory concept

Non-residential construction

Green Store concept







Finnjoist Passive House concept



Energy consumption during a life cycle of a residential building



Enviromental impact of various construction products

Finnjoist Passive House concept

- First certificated Passive House concept with I-beam in Europe; German Passive House institute
- All joints and connections surveyed and approved to full fill new Eurocode demands
- Flexible architecture







Kerto® multistory concept

- Timber frame concept reinforced with Kerto Q® cross laminated stabilizers, Kerto Ripa ® floor components
- Extremely fast erection due to custom made standard components, water proof roof completed in 3-4 work days
- Open architecture enables various applications and high level of customizing for end users
- High soundproofing and vibration quality properties; integration of Finnforest SoundBar® system feasible
- Integrated bathroom modules







Green Store concept

- Concept includes a glulam frame, long span roof panel system and wooden façade panels
- Roof panels are based on structurally glued Kerto Ripa® panels including thermal insulation and waterproof membrane
- Extremely fast roof covering, up to 1000m2 of roof completed in one work day
- Enables to reduce CO2 emissions vs. other construction material solutions and thus helps mitigate climate change



Wooden SPU Passive Roof®

- Finnforest Kerto®-based roof element suitable for the roof of a detached house, and other future passive house solutions
- Developed together with SPU Systems Oy



- The strong and thin Kerto together with the SPU insulation, guarantee excellent heat insulation and airtightness. The structure's U value is 0.07 W/m2K.
- Already used for several detached houses around Finland. Builders are satisfied and say that the solution is energy-efficient, quick to install, and has good overall economy.

According to VTT's research



The carbon footprint for a steel-built roof structure is more than 60% bigger, and the carbon footprint for a reinforced concrete roof structure is almost 50% bigger than when using Kerto-RipaTM box slab construction.

- VTT Technical Research Centre of Finland

Finnforest references in Europe

Public buildings Special constructions Civil engineering Sports facilities Office buildings Agricultural buildings Residential buildings New projects



Public buildings



Law court Antwerp

- Building year:
- Architect:
- 2004

solution

Richard Rogers Partnership er: Ove Arup & Partners

Finnforest Merk for timber

International Ltd

– KBC – Artesia

- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:
- 1,800 m³ Hyperbolic grid shell roof formed with crosswise combined timber lamellaes and curved purlins

Justinvest Antwerpen, Interbuild







Canoeing shop, Sipoo

- Building year:
- 2008 Matti Rotko

Roof elements:

Astra-Tuote Oy

- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

Bear & Water Oy Glulam frame, Finnforest roof elements, Kerto in wall studs and stairs, King panel in exterior cladding

Insinööritoimisto Tanskanen





Department store, Raisio

- Building year: 2008
 - Architect: Pa
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:
- Parviainen Architects er: Roof: Insinööritoimisto Asko
 - Keronen Peab Seicon Oy
 - Ikea
 - 16,000 m² of Kerto-Ripa roof elements









Haukkamäki school, Karkkila



- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:
- Kari Järvinen and Merja Nieminen Insinööritoimisto Konstru Oy
- Karkkilan Rakennus Oy
- City of Karkkila

2007

Glulam trusses and columns, Kerto framed roof elements







Hösmärinpuisto school, Espoo

2004-2005

Yrjö Suonto

- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

Rakennuskartio Oy City of Espoo Walking bridge made of Kerto, Kerto- boxed slabs in intermediate floors, glulam columns, frame of Kerto

Insinööritoimisto Konstru Oy







Leskenlehti daycare, Helsinki



- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2003

Eric and Anders Adlercreutz Insinööritoimisto Matti Ollila Oy Skanska Etelä-Suomi City of Helsinki Kerto frame columns and beams, boxed slabs





Sibelius hall, Lahti



- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:
- 2000 Hoppy Tikk
- Hannu Tikka and Kimmo Lintula
- Turun Juva Oy
- NCC Finland Oy
 - NCC Finland Oy
- Acoustic wall elements of Kerto
 - filled with sand, roof elements of Kerto, Kerto in windows







University, Reims

- Building year:
- Architect:

Constructor:

• Customer:

• Structural designer:

2005-2006 University of Reims Dominique Calvi, Ingénierie Structures Bois, Les Angles/France & Finnforest Merk CMB - Construction Millet Bois, & Finnforest Merk University of Reims Kerto, Leno

• Finnforest materials:





Martin Nadaud Gymnasium





- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2004

- Francois Bouvard
- CMB- Construction Millet Bois
- CMB
- Ville de Saint-Pierre-des-Corps
- Kerto, Glulam, Thermowood



University, Karlsruhe



- •Building year: 2005 •Architect: Architecture office J. Mayer-H, Berlin
- •Customer:

Bau und Vermögen Baden-Württemberg •Finnforest materials used: LenoTec 200 m³, Kerto 250 m³, Glulam 220 m³







Mariinsky Theatre, St. Petersburg



- Building year:
- Architect:
- Structural designer: ٠
- Constructor:
- Customer: ٠
- Finnforest materials:

Fabre & Speller Architects, Paris, France Setec Batiment, NPO Georekonstrouktsiafoundamentproekt

Finnforest Merk **Neviss Komplex**

Massive wooden elements in ceiling and walls consist of 220 mm of Kerto, coated with 12 mm Finnforest birch plywood.







Serpentine Gallery Hyde Park, London



- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2005 Alvaro Siza, Eduardo de Moura, Cecil Balmond Arup

- Finnforest Merk
- Serpentine Gallery
- materials: Kerto







Sheffield Winter Garden



- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2002 Pringle, Richards, Sharratt Architects

- Buro Happold Ltd.,Bath Interserve Project Services Ltd
- City of Sheffield
- Curved glulam beams







Tesco store, Wick, Scotland



2006

Associates

Tesco

Barr Construction

Ian Burke Associates

Finnforest and Consulting Engineer Evolve, Goodson





- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials: Glulam, Kerto

Special constructions

Wood coaster, New Jersey



• Finnforest materials: Kerto



Civil engineering

Charles de Gaulle airport, Paris



- Building year:
- Architect:
- Customer:
- Finnforest materials:

2008

- Dominique Parent and Olivier Mas (ADP)
- Aéroport de Paris (ADP)
- Engineering, manufacturing and installation of veneered Finnforest birch plywood arches



ISTIM





Sports facilities



Joensuu Arena

- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2004 PRO-ARK Oy, Marjatta Hara-Pietilä Finnmap Consulting Oy YIT Rakennus Oy City of Joensuu

Upper and lower chord of the arch-shaped trusses of glulam. Diagonals and verticals of the truss, middle boat of the roof and entrance canopy of Kerto.



Princess Park Stadium, Dartford

- Building year:
- Architect:
- Structural designer: •
- Constructor:
- Customer: •
- Finnforest materials: •

- 2005-2006
- Alexander Sedgley
- Alan Conisbee & Associates
- Jackson Construction
- Dartford Borough Council
- Glulam

Office buildings

FMO Tapiola, Espoo

- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2005

- Helin & Co Architects Insinööritoimisto Suunnittelukortes
- Peab Seicon
- Insurance company Tapiola

Frame of Kerto columns and beams, boxed slabs in intermediate floors. Split glulam in facade.

Logistics centre of Tokmanni, Mäntsälä

2008

- Architect: •
 - Customer:
- Arkkitehtitoimisto VG-Group Oy
- Tokmanni Oy
- King panel Finnforest materials:

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Meeting rooms at Danone, Velizy

- Architect:
- Structural designer:
- Constructor: •
- Customer: •
- Finnforest materials: •

Architecture Studio Wooden structures: Sylva Conseil CMB

2006

Danone

Kerto

Finnforest France, Honfleur

- Building year: •
- 2006
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:
- Agence d'architecture Espace Gaia
- Wooden structures: Rambert S.A.
- Cruard
- Gastebois international
- Kerto, Glulam, Thermowood

Agricultural buildings

Barn Mattila, Pälkäne

- Building year:
- Architect:
- Structural designer of Finnforest building parts:
- Constructor:
- Customer:
- Finnforest materials:

2007 Satakunnan M-Rakennussuunnittelu Oy

Insinööritoimisto Tanskanen Oy Maatalouskesko Sami Mattila

Kerto framed roof elements, glulam frame

Residential buildings

Friisilä residential area, Espoo

- Building year:
- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

2002-2004

- Pauliina Vihinen & Juha Kronlöf Jukka Ala-Ojala
- Skanska Oyj
- Skanska Oyj
- Kerto framed wall elements, glass facades and windows.

Huvitus Housing, Helsinki

2007

- Architect:
- Structural designer:
- Constructor:
- Customer:
- Finnforest materials:

Kirsi Korhonen ja Mika Penttinen Oy

- Insinööritoimisto Ylimäki & Tinkanen Oy
- Skanska Talonrakennus Oy
 - Helsingin asuntotuotantotoimisto
 - Kerto-Ripa elements in intermediate floor, Kerto in stairs and windows.

New projects

Metropol Parasol, Seville, Spain

Natural excellence

Find out about the natural excellence of wood as building and furnishing material at the renewed finnforest.com website.

