



# CONENOR

Beginning of 1990's Conenor started developing with its industrial partner Maillefer Extrusions and State Technical Research Center "VTT" its innovative and patented multi-rotor extruder Conex® which could extrude two or more different WPC-formulations into multilayer product structures without the need of cross-heads nor side extruders. Today Conenor has 3 industrial scale Conex®-lines and other related equipment for project work and trials at its extrusion lab facilities at town of Orimattila south of Finland.

Independent of Conex® offering, Conenor is today acting as international composite extrusion process and product developer, industry consultant and expert in client projects for natural fibre plastic and other waste based composites (NFC & WPC) and start-ups of new businesses. see reference [www.upmprofi.com](http://www.upmprofi.com)

Moreover the company is actively participating public funded R&D-projects where current examples are collaborative EU/FP7-projects "IRCOW" [www.ircow.eu](http://www.ircow.eu) and "OSIRYS" [www.osirysproject.eu](http://www.osirysproject.eu) for improved material recovery and resource efficiency in the building industry. New projects are under preparation within Horizon 2020.

## Conenor offering includes:

- Market Knowledge & Information
- Profit/Loss Calculations
- Material Choices, Additives, Formulations
  - Product Design & Dimensioning
  - Single layer
  - Multilayer
- Optional Process Equipment and their Manufacturers (OEM)
- Client R&D and sampling activities
  - Client formulation development & optimization
  - Material screening trials with Conex® CWE 380-1 extruder
  - Multilayer profile sampling trials with Conex® CWE 500-2 extrusion line
  - Multilayer panel (400mm wide) sampling trials with Conex® CE 280-2 extrusion line
  - Testing of samples

## Consultancy | Equipment

- Selection of Equipment & Tooling from worldwide Manufacturers
  - Material preparation, Mixing, Extrusion, Downstream
- Technical expertise and advise for the most optimal set-up
  - Twin screw extrusion technology for standard single layer products
  - Conex® 2-rotor technology for multilayer products
- Buy-or-Make evaluations
- Purchase negotiations on Client behalf
- Training & Know-how in process control and start-ups



Multilayer WPC-decking boards with recycled ABS (45%) + wood (55%) inside and recycled PE or PP (35%) + wood (65%) outside

## CONENOR LTD

### Foundation

- 1995

### Branches

- NFC
- WPC
- Construction

### Key materials

- Natural Fibres
- Thermoplastics
- Fillers
- Additives
- Waste
- Composites

### Key products/services

- Client R&D
- Feasibility Studies
- Multilayer Profile & Panel Extrusion
- Sampling of Materials & Formulations

### Contact

#### Conenor Ltd

Poukamankatu 12  
15240 Lahti  
Finland  
Phone: +358 (0) 40 75 34 605  
[markku.vilkki@conenor.com](mailto:markku.vilkki@conenor.com)  
[www.conenor.com](http://www.conenor.com)

### Contact person

#### Markku Vilkki

[markku.vilkki@conenor.com](mailto:markku.vilkki@conenor.com)

