

DELIVERABLE D 5.1:

List of end users applying TVW and related analysis

TV4NEWOOD PROJECT

AGREEMENT NUMBER:
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1. VACWOOD® PRODUCERS

Actually The VacWood® Producers are:

N°	COMPANY NAME	COUNTRY	YEAR
1	BINGAMAN (2 machine)	USA	2015
2	TV4NEWOOD	FRANCE	2014
3	ECOLWOOD	FRANCE	2014
4	VARM-I NORD	NORWAY	2014
5	TECH-OMEGA SP Z O.O.	POLAND	2015
	ALAC SRL	ITALY	2015 (REFITTING)
6	NORTHLAND FOREST PRODUCTS	USA	NEW PLANT
7	SCIDUS	BELGIUM	NEW PLANT
8	FURNICRAFT	SRI LANKA	NEW PLANT

As already explained in the deliverable 5.11 another production machine, is now producing Vacwood in Italy. It is the machine to the Alac company.

. ALAC company is an old customer of WDE Maspell and had a previous version of ThermoVacuum process plant, that during 2015 was upgraded for the ThermoVacuum innovative process.

This upgrade was made by WDE and ALAC with own resources with the objective to refitting and innovate the old production plant.

We decided to insert the data collected from this machine and its production data to collect feedbacks from more customers.

Furthermore , this plant has processed the necessary wood to the activities of the MRG partners D. 5 12 Vessel having supplies and or cladding made of TVW.

2. DESTINATIONS OF USE

The manufacturing of VacWood® relies on the use of high temperatures in a under vacuum environment, without any chemical additives.

This process improves many wood features:

- ❖ Resistance to biological agents;
- ❖ The resistance to atmospheric agents;
- ❖ The dimensional stability;



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- ❖ The 'thermal insulation;
- ❖ A pleasant odour of the product;
- ❖ The mechanical strength, very close to that of a natural wood;
- ❖ The reduced moisture content and wettability;
- ❖ The uniform colour for the entire thickness of the wood;
- ❖ The compatibility with the environment of a 100% natural product and free of pollutants.

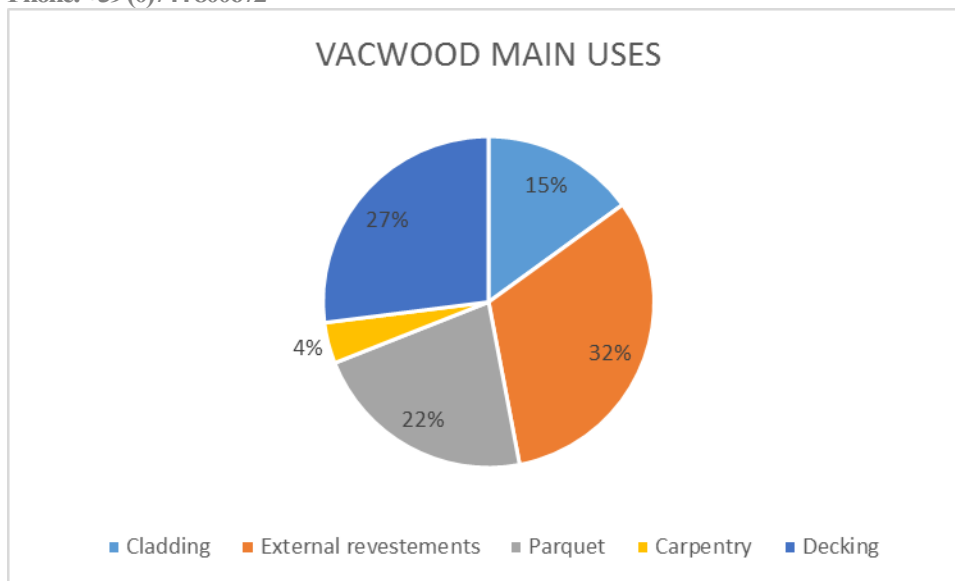
The ThermoVacuum process has other positives features:

- ❖ Very low energy consumption;
- ❖ Emission of VOC - volatile organic compound – very close to that of natural wood;
- ❖ No leakage into the surrounding environment.

For VacWood® producers is very difficult to collect information about the final use of sold wood, because it is often sold to other companies that perform further processing; furthermore VacWood® product trademark has been registered in July 2016 and VacWood® produced mainly for test and little productions.

Anyway during 2016 with some difficulties producers collect information about final use of ThermoVacuum treated wood and results are the following:

Cladding	15%
External revestements	32%
Parquet	22%
Carpentry	4%
Decking	27%



Surely the results obtained from the project TV4NEWOO will help over time to expand the species certified VacWood[®], giving assurance to the market and expanding the destinations of uses of the products.

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