10/11/2022

SCHATZMAYR WELP SA Thomas

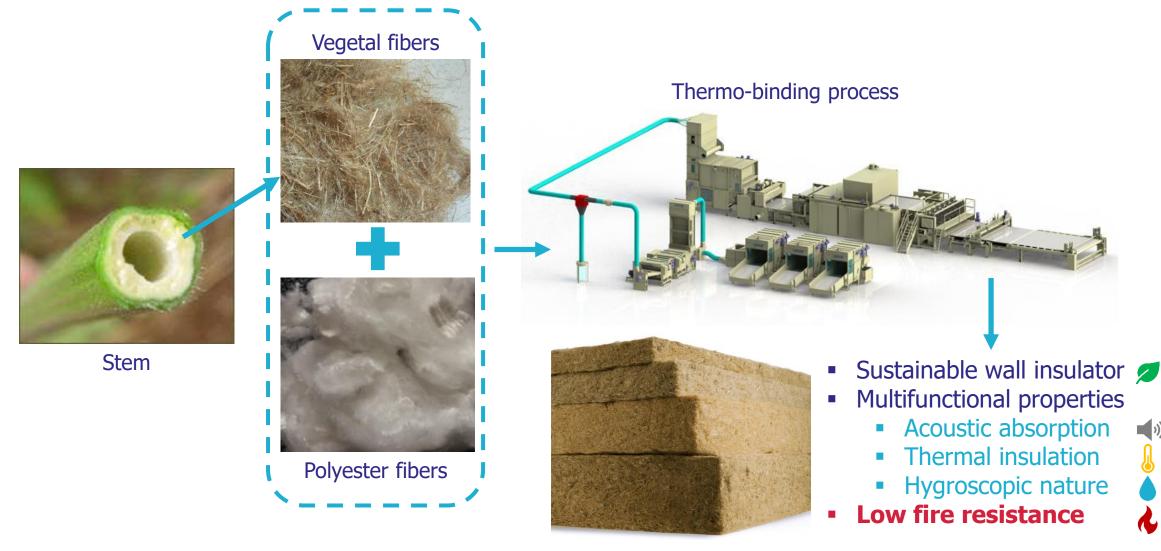


ETELOR

Optimized vegetal wools for indoor comfort: coupling fire treatment with acoustic and hygrothermal performances



BIO-BASED MATERIALS





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OBJECTIVES

Objective 1

Evaluate the alternatives and the application methods of the fireproof material in the vegetal wools Objective 2

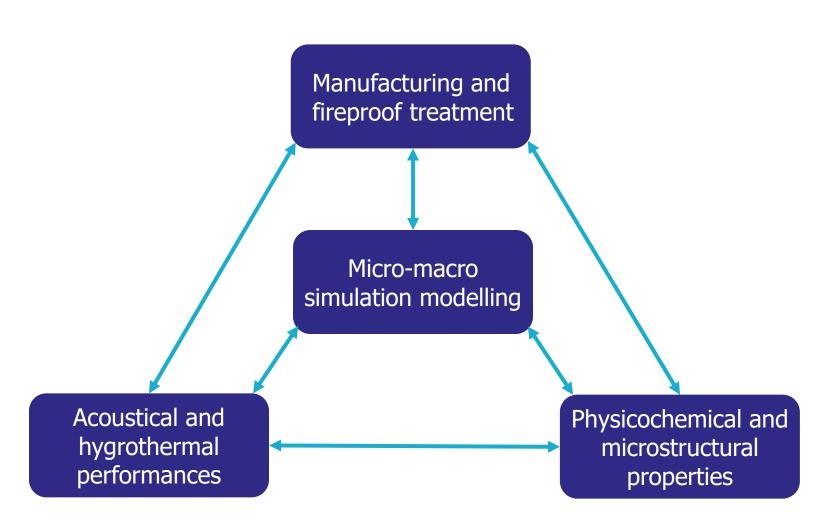
Comprehend the influence and optimize the fireproof treatment on the fibers and microstructure of the vegetal wools

Objective 3

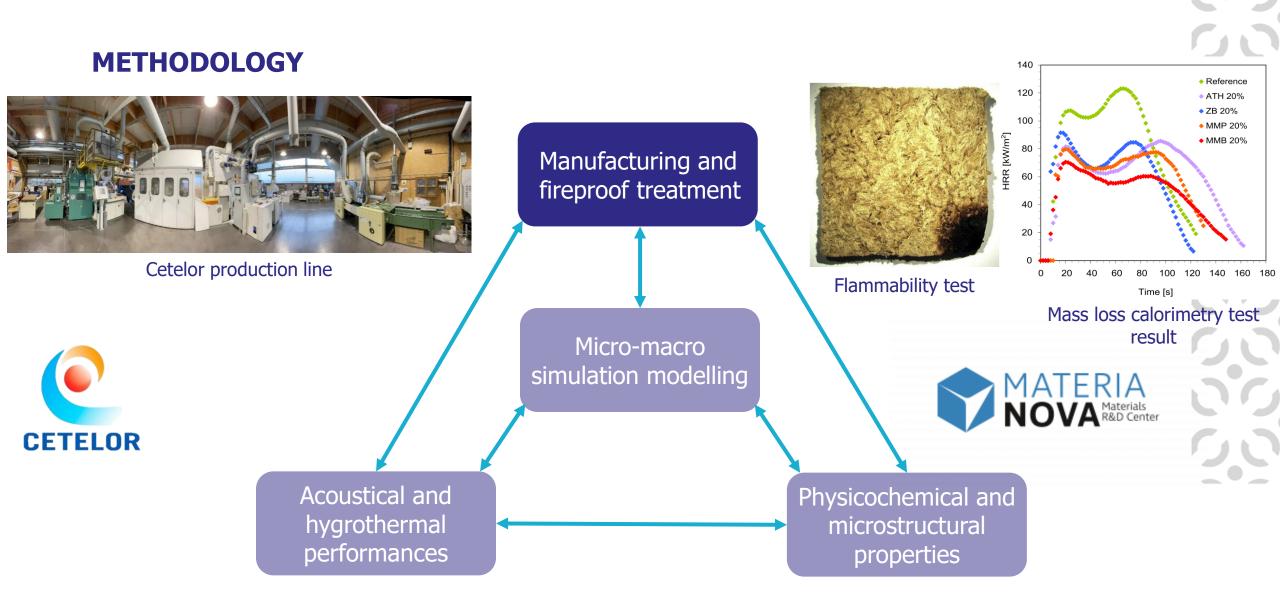
Develop modelling methods to simulate the impact of the fireproof treatment on acoustic and hygrothermal properties of the vegetal



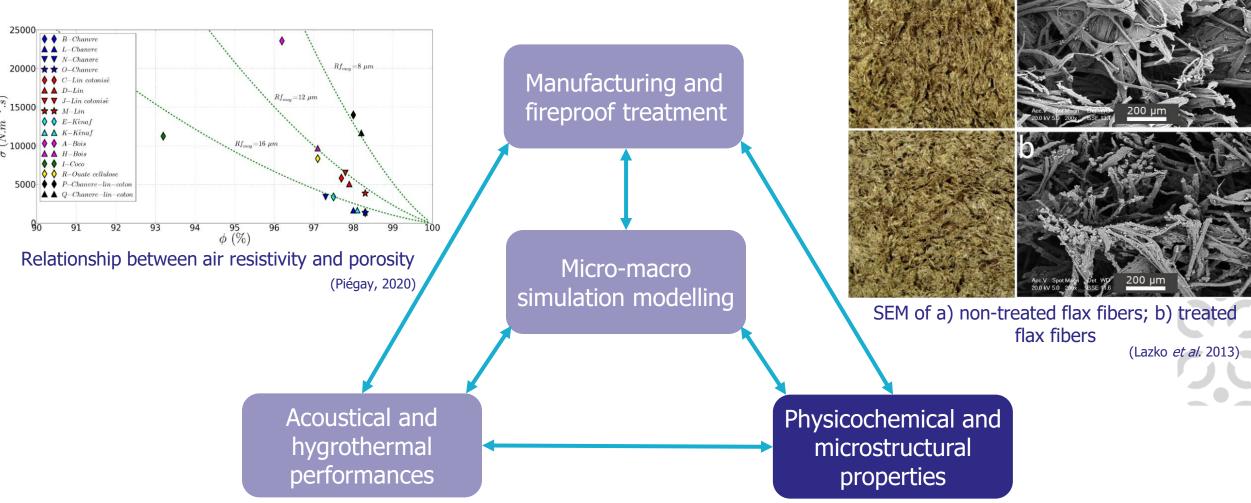




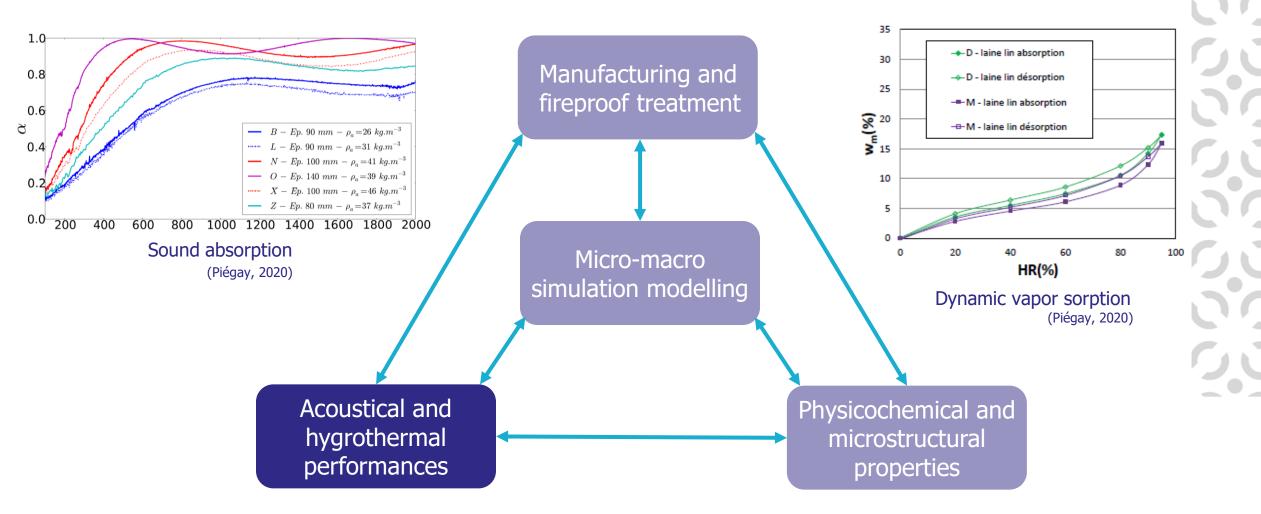




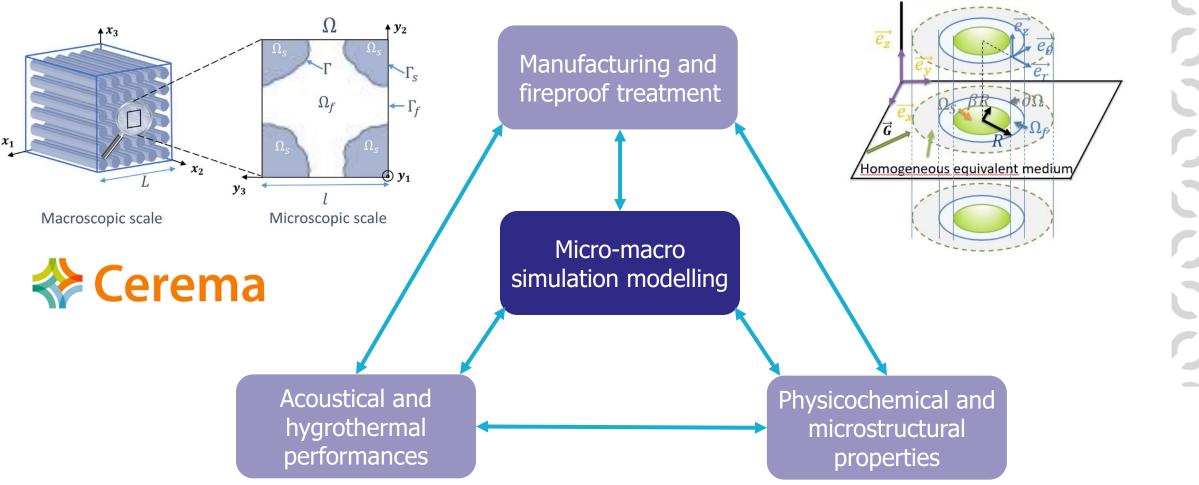














Generic inclusion

ORGANIZATION OF THE THESIS

Supervision

S. Marceau Physicochemical and microstructural characterization

C. Piégay Acoustic and thermal performances

E. Gourdon Acoustic performances

P. Glé Acoustic performances

10/11/2022

Partners

CEREMA Thermal and acoustics modelling

CETELOR (Epinal) Vegetal wool manufacturing

Materia Nova (Mons, Belgium)

Ignifugation treatments and fire resistance

CLEAR-Doc Funding institution

