

MARIE TRAINING PROGRAM FOR IMPROVEMENT IN ENERGY EFFICIENCY (EE) OF EXISTING BUILDINGS

F1 | BEST PRACTICES COLLECTION

Best Practice Name:	Innovative materials for insulation (thermal, even phonic)
Code:	FR-RE-CO-02

Best Practice Description:

Type:	<input checked="" type="checkbox"/> Action for improvement in the EE	<input type="checkbox"/> Training experience (*)
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Description: Implementation of innovative materials for thermal insulation of old buildings, walls or roofing: "multi-layer" materials in roofing especially (with the benefit of a good mechanical resistance); « Naturalin »: a mix of sheep wool and linen (for walls especially) ; lavender straw chamber + lime.
 Rigid rockwool panels that combine thermal and phonic insulation, present good strength and durability (compared to glass wool for example) and a reduced laying time.

Location:	Cadenet, Simiane La Rotonde	Country:	France
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Type of building:	<input type="checkbox"/> Tertiary	<input checked="" type="checkbox"/> Residential	<input type="checkbox"/> Mixed
Property:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
Management:	<input type="checkbox"/> Public	<input checked="" type="checkbox"/> Private	<input type="checkbox"/> Mixed
Fields of action:	<input checked="" type="checkbox"/> Construction	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Use
	<input type="checkbox"/> Energy generation and distribution		<input type="checkbox"/> Other
	<input type="checkbox"/> Replacement or implementation of renewable energies		

Please, evaluate if the following processes take place in the Best Practice that you are describing in this form:

	Yes	No
The data collection has been complete and rigorous	<input type="checkbox"/>	<input type="checkbox"/>
Communication and awareness processes have been developed to disseminate this practice	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Training actions have been provided	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Product and services have been improved	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Jobs have been created	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sustainable financial models have been applied	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Agreements or collaboration models have been defined between parties	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Positive impact tested in the following fields (add quantitative data if you have):

ENERGY EFFICIENCY IMPROVEMENT (EE)	Techniques that have contributed to an improvement of energy efficiency performance of at least 20%
FINANCIAL COVERAGE	No particular practice
EMPLOYABILITY POTENTIAL	No job creation is directly related to these techniques, since they are voluntarily based on common "savoir-faire".
OTHER	<p>Interprofessional collaborations:</p> <ul style="list-style-type: none"> • Without talking of <i>models</i> of collaboration, it has been noticed that these techniques require exchanges between carpenters and building companies about working on junctions between walls and wooden frames, insuring continuity of the thermal insulation, avoiding thermal bridges... • Exchanges have also been noticed between building companies and material suppliers about new materials that answer or anticipate ground needs and can lead to an evolution of practices. <p>Exchanges particularly on historical buildings renovations between prime contracting or project managing companies and building companies (shell work) as well as between companies themselves: these buildings require preliminary reflection before implementing usual techniques.</p>
DIFFICULTIES	<ul style="list-style-type: none"> • To be used as an insulating material, lavender straw must be distilled as a "bouquet" and not in a jumble in order to present a rot-proof characteristic. • Difficulties to make some project managers more open-minded about the use of uncommon materials and techniques. Leads to compromises.

Agents involved in this experience:

	Legislation agencies
	Public promoters
X	Private promoters
	Technical public institutions
X	Technicians of the private sphere (professional associations ...)
	Builders
	Industrial
	Facility Managers (property managers, cleaning companies ...)
	Energy supply companies
	Users/owners (homeowners association, schools ...)
	Other:

GAPS	<ul style="list-style-type: none"> • It is essential to develop more practical training about the details not to neglect for an efficient renovation (including focus points on airtightness, insulation continuity, and minimization of thermal bridges...) <p>Also training on materials or techniques requiring uncommon “savoir-faire”.</p>
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(*) **RR_BB_FF_NN**

RR Country: **CY** (Cyprus), **FR** (France), **GR** (Greece), **IT** (Italy), **MT** (Malta), **PO** (Portugal), **SL** (Slovenia), **SP** (Spain)

BB Type of building: **RE** (residential), **TE** (tertiary), **MX** (mixed)

FF Field of action: **CO** (construction), **MA** (maintenance), **US** (use), **EN** (energy generation and distribution), **OT** (other)
(in case of affecting more than one field of action choose the most relevant)

NN Number of the practice: **01, 02, 03...**

(*)IN CASE OF A TRAINING EXPERIENCE:

Course name:	
Duration:	
Web:	
Director/a:	
Who is it aimed:	
Objectives:	
Program:	
Methodology:	

I agree to bring this experience to the database of the MARIE project, which will create a comprehensive training program for improving the energy efficiency of buildings in the area of the Mediterranean.