



MARIE

MEDITERRANEAN BUILDING
RETHINKING FOR ENERGY
EFFICIENCY IMPROVEMENT

Mediterranean Building Energy
Efficiency Strategy

Pilot Activities



**REGIONE
PIEMONTE**

Mediterranean Building Energy Efficiency Strategy

Pilot Activity 3.2 Task 4

Innovation in the catalogue of prices for Regional public tenders in the building sector

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Nr. pages: -

Issue Date: 09/12/2014

Status: ***final version***

Deliverable: ***D.3.4.1, D.3.4.2, D.3.4.3, D.3.4.4***

KEYWORDS: Environmental label, Environmental Product Declaration,
Environmental performance

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0. INTRODUCTION

Piedmont was the first Italian region to adopt an official specific catalogue of prices for sustainable building products and services, in 2002, including innovative solutions featured by quite eco-efficient performances and requisites.

With this kind of “demand pull” strategy, public authorities are encouraged to request in their invitations to tender the supply of such technologies, and enterprises are stimulated to supply better performance solutions.

1. OBJECTIVES

The pilot action was aimed to update the existing regional catalogue of prices, with the purpose of:

- stimulate the enterprises to supply materials, products and services with higher performance;
- show to Public Authorities the existence on the market of a variety of environmentally certified products in different categories, to be considered in the development of procurement procedures;
- give to construction companies and designers the opportunity to discover innovative materials and solutions to adopt in refurbishment interventions.

The task also tried to implement the basis for a future new structure of the catalogue, based on the inclusion of LCA and LCC parameters able to describe in a complete manner the environmental and economic performance of each product and solution.

2. METHODOLOGY

2.1 Definition of the innovative actions for the integration of the catalogue of prices

According with the regional offices for energy policies and public works of Regione Piemonte, an activity was planned to integrate the Regional price list for construction products and services with a “showcase” of eco-innovative products and solutions.

The decision was to implement an annex to the existing catalogue of prices, updated every year by the regional offices, including Italian and regional certified products and their LCA based information where available, according to the standards defined by the implementation of the ITACA national database of construction products.

2.2 Implementation of the new version of the catalogue of prices (addendum)

The catalogue includes a selection of **86 products** made in Italy and certified by one of the labelling types (I, II, III) foreseen by ISO 14020 standard.

All information are summarized in a **general table** reporting for each product:

- the manufacturing company
- a description of the product
- the corresponding code in the Regional pricelist
- the type of certification
- the environmental parameters included in the certificate (type II labels)
- the presence of a manufacturing site in Regione Piemonte
- the number of certificate or concession contract of the label
- the expiring date of the certificate

For each of the products a **specific product sheet** was performed based on a common template, structured in 3 sections:

- general description of the product
- technical and physical properties
- environmental impact indicators from LCA (type III certified products)



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SCHEDA DI PRODOTTO n. 024

A. DESCRIZIONE GENERALE

Nome produttore	Colorificio San Marco SpA	
Nome prodotto	Antica Calce, in confezione da 18,75 kg Linea Tuttorestauko – Greenspirit	
Luogo di produzione	Marcon (VE)	
Riferimento prezzario per opere pubbliche Regione Piemonte	03.P12	
Unità funzionale	1 kg di prodotto	
Confini del sistema considerato nell'LCA con riferimento a EN 15804:2012	Produzione (A1 – A3)	X
	Trasporto (A4)	X
	Costruzione/Installazione (A5)	X
	Utilizzo (B)	X
	Fine vita (C)	-
Descrizione	Pittura murale minerale per esterni ed interni, a base di calce aerea, che permette di ottenere una finitura antichizzante della superficie trattata, riproducendo l'antico effetto opaco della calce.	
Certificazione ambientale di prodotto di tipo I	-	
Certificazione ambientale di prodotto di tipo II (asserzioni convalidate)	-	
Certificazione ambientale di prodotto di tipo III	Sistema internazionale EPD (S-P-00253)	



B. CARATTERISTICHE FISICHE

Natura del legante	calce aerea	-	Essiccazione (a 25 °C e 65% di U.R.)	al tatto in ½ h; sovraverniciabile dopo 4	h
Solvente	acqua	-	Resa indicativa	0,31 (a 2 strati per sup lisce e mediamente assorbenti)	kg/mq
Brillantezza EN ISO 2813	classe G3 (<10, opaco)	-	Granulometria EN ISO 1524	Classe S1 (<100 fine)	µm
Spessore film secco ISO 3233	classe E2 (50-100)	µm	Grado di trasmissione di vapore acqueo UNI EN ISO 7783-2	Classe V1 (Sd<0,14 m alto) Sd=0,10 m per sp di 0,6 mm	m
Massa volumica UNI EN ISO 2811-1	1,25 ± 0,05	kg/l	-	-	-

C. INDICATORI DI IMPATTO AMBIENTALE (da LCA) ¹

Impatti Potenziali	Totale	Processo produttivo	U.M.	Flussi in input/output	Totale	Processo produttivo	U.M.
Effetto serra	0,733	0,053	kg CO ₂	Consumo di energia	10,83	0,82	MJ
Assottigliamento ozono	0,053	0,006	mg CFC-11	Consumo di acqua	10,3	1,75	l
Ossidazione fotochimica	0,566	0,050	g C ₂ H ₄	Depauperamento abiotico	-	-	kg Sb
Acidificazione	2,00	0,213	g SO ₂	Smaltimento rifiuti inerti	-	-	kg
Eutrofizzazione	0,628	0,075	g PO ₄ -3	Rifiuti non pericolosi	0,071	0,031	kg
Tossicità umana	0,15	0,012	kg 1,4-DB	Rifiuti pericolosi	0,90	0,034	kg
Ecotossicità	-	-	CTUe	Rifiuti radioattivi	-	-	g

¹ Dati riferiti all'unità funzionale

3. RESULTS

The catalogue, closed at the end of 2013, includes 86 products. Regione Piemonte agreed on the implementation of the catalogue as an annex to the actual official green building products price list, presented as a showcase of best practices. The catalogue was published in June 2014 both in a paper and electronic version. It was agreed to disseminate the tool as an “open” one, inviting companies to inform Regione Piemonte on new products or updates of the catalogue.

4. DIFFICULTIES

The delay in the development of the national scheme for environmental product declaration for the building sector (ESIT), promoted by Regione Piemonte, and in the implementation of the national database for LCA-certified products, led to the necessity of redefine the task objectives, originally aimed to introduce in the official pricelist some representative LCA parameters for some selected categories of products.

The activity developed in according with Regione Piemonte was so focused on the implementation of a robust regional database of products, to be used as a picture of the eco-labelled products including LCA performances. The annex to the pricelist is an “alive” tool, to be updated with information coming by the local companies, as a first example of the opportunity to consider the integration of environmental aspects both by the purchasing authorities than by the enterprises facing the market and the public tenders.

5. CONCLUSIONS

Considering that innovative and green procurement innovation is a theme common to all EU regions, the experience carried out by Piedmont in MARIE project will contribute at MED and EU levels to the adoption of this successful strategy. Companies declared a great interest in such a tool, which they think is able to exploit the efforts made by innovative enterprises to communicate their product policies and establish a dialogue with public authorities on that topic.

It could be immediately adopted by other Italian regions and local institutions too, and by other EU regional and local authorities simply updating the certification schemes included in the inventory.

6. ANNEXES

6.1 Report about the innovative actions identified – guide to the use of documents (D 3.4.1)

6.2 New annex to the regional catalogue of prices – product list and product sheets (D 3.4.2)