

ADEME



Agence de l'Environnement  
et de la Maîtrise de l'Énergie

Club ADEME  
International



CERWAY

## Certification HQE Construction of the residential project «Piamonte - Reserva de MADRID»

by PRODESA Colombia.

*A few metres from Bogota is the «Reserva de Madrid», a large, majestic residential project for **family life**.*

*First certified social housing program in Colombia and the second in South America.*

*This project allows for the first time the identification of a compromise between sustainability and the economic constraints specific to social housing, providing a healthy and comfortable living environment for future occupants, focused on quality of life while taking into account **environmental aspects such as water consumption and biodiversity**, all integrated into Colombia's regulatory and climate context.*

*This complex of 26 buildings and 520 dwellings (including the certified «Piamonte» unit of 2600 housing units) includes private parking, playgrounds, 5-storey buildings with elevator and balcony, surrounded by green parks.*

*Unusual techniques for social housing have been applied to achieve the desired level of performance:*

- a stand-alone solar lighting system for the outer parts
- an architecture designed to provide all apartments with ventilation (crossing dwellings) and natural lighting, including in bathrooms
- the use of materials **without volatile organic compounds, formaldehydes and non-carcinogens** in accordance with the classification made by the World Health Organization.



Colombia



**Duration**  
3 years



**Amount euros**  
Confidential



**Staff mobilized**  
Confidential

### Thematic



### Benefits performed

Services  
HQE Certification  
(High Environmental Quality) Construction  
Engineering/study office  
PRODESA  
Réfèrent of TERAQ Colombia  
Equipment/manufacturer



Similarly, **acoustic comfort** is generally not taken into account in Colombia, so the performance of certified housing will exceed the general level of the local residential building market.

*Application of the Lean Construction Approach's Project Management Techniques to optimize site management.*

### Post-project results

Certifié HQE Construction en 2018 - Niveau « Excellent ».

### Ecological/climate indicators

**Récupération à 81% des déchets de chantier** (à l'exclusion des sols).

### Video

🔗 [Découvrez la Reserva Madrid - Prodesa](#)



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With more than 130 members, the Club ADEME International assists the SMEs in its network in the development of innovative projects and international partnerships. The objective is to participate in the dissemination of French knowledge, by supporting the private and public sector in the ecological and energy transition sector in order to meet global environmental and climate challenges.

**For more information : [www.clubinternational.ademe.fr](http://www.clubinternational.ademe.fr)**

