



**EUROPEAN
ALUMINIUM
AWARD 2009**

ALUMINIUM IN RENOVATION

**Jury report
European Aluminium Award 2009**

ALUMINIUM IN RENOVATION

Brussels, 18 November 2009

Introduction

The Aluminium in Renovation Award, to run throughout 2009, will involve 14 European countries, a series of national competitions and a European final rewarding the most sustainable and original uses of aluminium in building renovation.

For this second edition particular attention will be paid to energy efficiency.

The National competitions are sponsored by the Aluminium For Future Generations programme (AFFG), in cooperation with the National Aluminium Trade Associations members of the European Aluminium Association (EAA) or of the Federation of European Window and Curtain Wall Manufacturers' Associations (FAECF).

The European contest is sponsored by the Building Group of the European Aluminium Association.

2 Aluminium Awards, a Jury Prize for Energy Efficiency and Extra prizes

European Aluminium Awards will be given in 2 categories:

1. RESIDENTIAL, including

- Private houses
- Private collective housing/apartment buildings
- Social housing: houses & apartments

2. NON-RESIDENTIAL, including

- Utility buildings: offices, commercial, industrial
- Public buildings: museums, train stations, town halls etc.
- Historical buildings: churches, ancient houses etc.

The European Aluminium Award winners are receiving a prestigious trophy and a winner's certificate.

In addition, the most significant contribution to energy efficiency across these two categories shall receive the JURY PRIZE for ENERGY EFFICIENCY.

At jury's decision also special prizes can also be won for projects with a special performance like Cladding & Roofing, Doors, Windows & Curtain walls etc.

Architects, principals or property owners, project developers and building-engineers are invited to enter.

Projects or buildings must be located in Europe in order to be eligible and the location of the project determines which national competition the project can enter.

The concept of "aluminium in renovation" will cover not only renovation, but also restoration and re-construction provided the former structure of the building has been maintained such as changing the function of an existing building, e.g. turning a warehouse into apartments.

European nominees

In total 31 nominated projects are judged. 9 in the Category Residential and 22 in the Category Non-Residential.

CATEGORY RESIDENTIAL (9)

De Torenflat, Zeist – NL
Gloucester Studios, London – UK
La Corte dei Tigli, Persiceto - I
Loftliving Ackermannfabrik, Augsburg – D
Nordbo, Aalborg – DK
Residentie Huybens-Otten, Herent – B
Spinnerij De Stoop, Kortrijk - B
Villa Daguet, Capestane – F
Villa Hernan, Castries - F

CATEGORY NON-RESIDENTIAL (22)

10 Hill's Place, London– UK
Archivo di Stato, Rome - I
Bedrijvencentrum Kempen, Geel – B
Castlemilk Stables, Glasgow – UK
Centrale Vodafone, Ivrea – I
Corriere della Sera headquarters, Milan – I
Energia Building, Paris - F
Gedimino, Vilnius – LT
Hochschule für bildende Künste, Dresden – D
Las Palmas, Rotterdam– NL
Ministerie Financiën, Den Haag - NL
Municipal Library Morante, Lonate Seppino- I
Music Pavilion German School, Valencia – E
New Cavendish Street, London- UK
Nexus Place, London – UK
Njalsgaarden, Copenhagen – DK
Restoration house to offices –GR
School of Industrial Engineering, Vigo – E
Skrapan, Stockholm – S
Stadio Torino, Torino - I
St. Bridgid's School, Manchester – UK
Triage Lavoir de Binche, Binche - B

The Jury:

The independent Jury consists of members from the worlds of architects, science and media.

Prof. Jan Brouwer, architect, Netherlands, chairman
(former president of the BNA-Dutch Architects Association)

Cyriel Clauwaert, Belgian Construction Certification Association(BCCA),Brussels, Belgium

Prof. Sergio Croce, professor of Technical Architecture, - BEST department (Building Environment Science and Technology)" - Politecnico of Milan, Milan, Italy –

Isabelle Chinardet-Cantineau, architect, Vice-Presidente of the National Union of the French Architects' Associations(UNSFA), Paris, France

Alwin Schmitt, chief editor, Magazine Aluminium Praxis, Düsseldorf, Germany *
* represented in the Jury meeting by Werner Mader, GDA.

Secretary: **Bernard Gilmont**, Director Building Group EAA, Brussels, Belgium

The following criteria have been taken into account when assessing the entries:

- Significant use of Aluminium
- Energy Efficiency
- Life cycle thinking
- Contemporary design
- Socio-economic impact
- Added value to the original building

The Winners

After discussion the jury came to the following unanimous decision:

Category Residential

Winner European Aluminium in Renovation Award 2009

LoftLiving Ackermannfabrik, Augsburg (D)

Nething Generalplaner Architekten, Ulm/Neu-Ulm /
Metallbau Glock, Donauwörth

The new aluminium windows and doors add a modern touch to the former textile factory whilst taking building conservation aspects into consideration. The high windows with their narrow profiles still let in the daylight, something that was so important for the interior of the former textile factory; the modern window profile contributes to a level of thermal insulation geared to future requirements. The special shape of the window profiles resembles the appearance of the previous steel windows. With a U_w value of $1.5 \text{ W}/(\text{m}^2\cdot\text{K})$ the windows achieve a level of insulation geared to future requirements.

From the Jury:

The jury was impressed by the careful and well designed use of the material aluminium taking into account the interesting architectural quality of the building complex.



Category Residential

Winner extra prize for small scale renovation

Residentie Huybens Otten, Herent (B)

Denef Mattelaer Oosters Architecten (DMOA), Heverlee /
Schrijnwerk Alu-V, Wommelgem & Industriebouw Schriers, Peer

In this renovation of a detached property from the 1950s, the badly positioned rear structure was replaced with a 'light' aluminium mass on a concrete base, in which one side hovers over the premises and the slope down to the cellar. In order to arrive at a peaceful harmony between existing and new, a restrained syntax was chosen. The extension tears itself away from the old building by



means of a series of skylights. This break with the existing building is accentuated by the choice of profiled aluminium sheets as siding. Owing to the narrow gauge of the profiled aluminium (15/40mm), the connotation of the industrial disappears and it lends the property its own modern character. So as not to have to lose privacy and still allow sufficient light in, perforated profiled aluminium sheets were used which have been attached for a number of windows.

From the Jury:

This project comprises a modest but carefully executed extension of an existing property. The dark room stands out in a positive way due to a good application of aluminium siding which has been partially perforated. Even the detail has been implemented with care and restraint.

Category Non-Residential

Winner European Aluminium in Renovation Award 2009

Corriere della Sera, newspaper headquarters, Milan (I)

Gregotti Associati International Architects, Milan/
Installation Focchi, Rimini

This was a difficult and complex renovation project. It entailed finding a pertinent, all-embracing solution to the renovation requirement of a central city block whose stratified development down the years had created an irregular ground plan comprising a series of inhomogeneous units. The requirement was not just to reconstitute a formal unity and identity to a cluster of buildings but



to ensure their functional practicability and compatibility with state-of-the-art technology, making the complex compliant with current safety regulations and appropriate for IT production techniques that have revolutionized the world of the printed press.

From the Jury:

The materials used are the key to the underlying theme of integration in the wider urban fabric and the creation of a uniform complex. The large aluminium framed windows and the aluminium cladding with the antique effect give an imposing appearance with a wink to the past.

Category Non-Residential

Extra prize Small scale renovation

Elsa Morante Public Library, Lonate Seppino (I)

DAP Studio architects, Milan /
Contractor Gruppo EDILIA, Torino

The “Elsa Morante” municipal library occupies the renovated former Oratory of San Michele and the new extension. The concept underlying the whole project was the dialogue between ancient and modern.

The library’s extension has a curtain wall exterior. The outer envelope is in R10U25,98 Mevaco sheet, finely perforated with linear rows of 3 mm holes.

Most of the panels are modular in design. They vary, however, in the graduated horizontal spacing between perforations. The panels have been laid so that the spacing between perforations becomes progressively narrower towards the top of the building, in keeping with its stereometric dimensions.

From the jury;

This project shows a fine understanding of combining new and old. It’s an outstanding example of the Italian feeling for design and beauty. The detailing is excellent and the use of aluminium components in this poetic building is exemplary



Category Non-Residential

Extra prize Roofing solutions

Hochschule für bildende Künste, Dresden (D)

CODE UNIQUE Architekten, Dresden /

Metallbau Böhme Haustechnik, Boxdorf & Henke Dächer Fassaden, Dresden

The arrangement of the composite aluminium panels as an optical roof covering gives the metallic covering skin a smooth appearance that creates an exciting relationship between the historical building substance and the technically modern roof design and links the individual wings of the whole complex.



From the Jury:

What impressed the jury here was the unusual design of the roofing, which comprises composite aluminium panels arranged on top of profiled aluminium sheeting. Besides innovative detailed solutions for the connections to the solar shading elements, the complex overall construction is characterised by a ventilation space that is physically extremely efficient. From an aesthetic point of view, particular attention has also been given to smoothly integrating the photovoltaic modules.

Category Non-Residential

Extra prize Innovation & Design

10 Hills Place, London (UK)

Amanda Levete Architects, London /
Frener & Reifer Metallbau, Brixen

This is a very interesting project just off Oxford Street, London.

Aluminium strips have been bent, twisted and secured onto sculptural armatures to create inverted eyelids opening to the sky from the narrow street. The form is zoomorphic and simultaneously reminiscent of a hull construction.

From the Jury:

We arrived at our decision by consensus to create an extra prize for innovation & design for this project.

This is a very interesting project in many ways when you look at the transformation achieved with this aluminium rainscreen cladding. The form of the inside is not exactly the same as the form of the outside but there is a relationship between the internal architecture and the external architecture.

Because of its inventive use of aluminium extrusions to make a sort of ship lap detail that is doubly curved. I think this is a practice that really understands aluminium and what it might achieve. It is a very intelligent use of aluminium and its very evidently an aluminium project. To borrow an old phrase you can see the power of aluminium and the inventiveness of the architects and therefore a worthy winner of this extra prize for innovation & design.



SPECIAL PRIZE ENERGY EFFICIENCY

The special Jury prize for Energy Efficiency led after discussion within the jury to the unanimous decision for an ex-aequo because of outstanding energy efficiency approaches both in the Residential and Non-Residential Category.

Advantage is that 2 we now have 2 winners for Energy Efficiency but it also means that these projects have to share the extra prize of 5000 Euro.

Category Residential

Jury prize Energy Efficiency

De Torenflat, Zeist (NL)

Frowijn de Roos Architecten, Zeist /
Kremers Aluminium, Tilburg

The Torenflat (high-rise apartment block) contains 484 apartments on central corridors on 19 residential levels. One of the important objectives of the renovation, which was carried out entirely whilst people were living in the building, was the elevation of all thermal bridges in the complex. This was tackled by enclosing the whole building in a 'warm jacket', a thermal skin comprising fully prefabricated aluminium façade units. By enclosing the building in this way, balconies were turned into loggias, thereby considerably increasing the duration of use of these outdoor spaces during the year. The traditional 'layer cake' appearance of the block has been transformed into a monolithic character.



From the Jury:

The new thermal skin in aluminium and glass makes it possible to considerably extend use of this high-rise apartment block. This resolves the thermal bridges and the original balconies are added to the living area in the form of loggias. The prefab aluminium façade units were extremely well suited to carrying out such an operation. An apartment was given a new skin in one working day.

It combines minimal investment with a maximum of social economic impact. An outstanding performance and a model for future renovation of energy efficient apartment buildings of this type all over the world.

Category Non-Residential

Jury prize Energy Efficiency

ENERGIA Building, Paris (F)

Architecte DTAAC, Paris/
Construction FACE Ile-de-France, Perigny-sur-Yerres

This renovation and restructuration of this building near the Saint-Lazare station shows a nice combination of contemporary aesthetic, homogeneous and modern design. Main target of this renovation also is the energy efficiency and environmental approach achieved by noise reduction, waste and dust reduction. After completion the building meets the High Environmental Quality (HEQ) standard. The best qualification possible.

From the jury;

The Jury was impressed about the nice and carefully detailing in windows and cladding approach. The outstanding energy efficiency and environmental performance makes this project to an absolut winner of the energy efficiency in the Category Non-Residential



For the Jury,

Prof. Jan Brouwer, chairman

Bernard Gilmont, secretary

Brussels, 18 November 2009

APPENDIX

EUROPEAN ALUMINIUM IN RENOVATION AWARD 2009 AND NATIONAL PRE-COMPETITIONS

REGULATIONS

1. The European Aluminium in Renovation Award is a bi-annual prize awarded by the European Aluminium Association (EAA) in Brussels, in close co-operation with the Aluminium for Future Generations Programme (AFFG), and National Aluminium branch organisations in Europe. ***

National Pre-Competitions will be held to identify the National winners and to select nominees for the final European Award competition.

National winners are automatically nominated for the European contest.

2. The 2009 European Aluminium in Renovation Awards and Jury Prize shall be awarded to renovation projects/buildings which have been completed after 1 January 2006 (and haven't participated in the 2007 contest), and which are covered in one of the specified categories. The criteria used to assess entries are listed in section 6.
Only entries significantly using aluminium will be considered.

- 3a. In the 2009 European Aluminium in Renovation Award competition, AWARDS will be given in 2 categories:

RESIDENTIAL, including for example:

- Private houses
- Private collective housing/apartment buildings
- Social housing: houses & apartments

NON-RESIDENTIAL, including for example:

- Utility buildings: offices, commercial, industrial
- Public buildings: town hall, museum, train station...
- Historical buildings

In addition, the most significant contribution to energy efficiency across these two categories shall receive the EUROPEAN JURY PRIZE for ENERGY EFFICIENCY together with a cash prize of 5000 Euro.

- 3b. In the 2009 National Aluminium in Renovation competition, AWARDS will be given in the same 2 categories as described in 3a.

In addition, the most significant contribution to energy efficiency across these two categories shall receive the NATIONAL JURY PRIZE for ENERGY EFFICIENCY.

At national level, additional EXTRA PRIZES could be given for other categories e.g.:

- Doors, Windows & Curtain Walls
- Cladding and Roofing

4. Architects, principals/property owners, project developers and building-engineers may participate in the 2009 European Aluminium in Renovation Award. Projects/buildings must be located in Europe. Location of the project determines the national competition for entry.
5. Aluminium in Renovation can be interpreted here in a wider sense. It will cover both renovation, restoration and re-construction (provided the former structure of the building has been maintained, i.e. changing the function of an existing building, e.g. turning a warehouse into apartments).
6. The following criteria shall be taken into account in the assessment of the entries:
 - Significant use of aluminium
 - Energy efficiency
 - Life cycle thinking
 - Contemporary design
 - Socio-economic impact
 - Added value to the original building
7. At least one complete phase of a project/building must have been completed.
8. Projects/buildings must be entered by a representative of one of the parties as mentioned under 4.

Selection and assessment

9. In each category the selection committee at national level will assess the entries with respect to the completeness of its documentation and whether they meet the regulations. Entries that meet the selection criteria will qualify for the 2009 National Aluminium in Renovation Awards.
10. The final winners of the national Awards, of the national Jury Prize and of the extra prizes will be selected by an independent jury.
11. The 2 national Award winners; the national Jury Prize winner and national extra

prize winners are automatically nominated for the European contest.

12. The jury will draw up a report in which it will explain its choices and the way in which the final decision was reached.

Entry submission

13. The entry must at least contain the following items:
 - a) A drawing of the project/building in question, or drawings providing a clear visualisation by means of one or several photographs, slides, drawings, scale models or a replica.
 - b) A fully completed entry form (enclosed with these Regulations). Incomplete forms will not be accepted for entry.
 - c) Cost of pre-rounds: see National Award sites (the European final round is free of charge.)
14. FOR ENTRY CLOSING DATES: SEE NATIONAL AWARD SITES ON www.aluminium-award.eu

Additional rules

15. Entries are only accepted subject to the organisers/sponsors having the right to publicise any designs in any manner that is deemed appropriate.
16. The organisers/sponsors can not be held responsible for any loss of, or damage to, material submitted. Entries not meeting the entry criteria will be returned.
17. The judges' decisions are final and no correspondence will be entered into.

- EAA = European Aluminium Association. The European Aluminium Association (EAA) represents the aluminium industry in Europe. The EAA was founded in 1981. Its members are the European primary aluminium producers, the national associations representing the manufacturers of rolled and extruded products in 18 European countries, the Organisation of European Aluminium Remelters and Refiners (OEA) and the European Aluminium Foil Association (EAFA).
- AFFG = Aluminium for Future Generations. The Aluminium for Future Generations initiative was created as a pan European Programme for dialogue. Today the

programme covers 13 countries. At a local level they contribute to developing dialogue with stakeholders and enhancing the sustainable approach of the aluminium industry. The whole program is co-ordinated by the EAA. More info on www.aluminium.org

- National Aluminium branch organisations will organise the pre-rounds for the European Aluminium Award competition. Occasionally this can include clusters of countries like Nordic Countries, Benelux, UK etc.