

ABOUT US

Ichnos 19 aims to combine business and research experimenting high technological, environmentally friendly and recyclable building systems overcoming the ZEB(zero energy building) concept.

Ichnos 19 buildings have in the meantime high avant-garde energy performances and ecologically aware, respecting all criteria of evaluation and control.

The group wants to support the goodness of their choices by complying with the evaluation and control of certification agencies.

Since 2006 Ichnos 19 pursued its goal by acquiring contracts of construction and small investments that had elements of scientific interest, developing and experimenting at the same time its own building system.

Starting by 2011 sacrifices and great work takes the Ichnos 19 team to achieve important scientific and economic targets experimenting details, techniques and construction systems that lead the group to obtain an important national award during the "Week of ecological design and automation in Modena: @CASACLIMA GOLD NATURE certificate. In fact in 2013, for the first time in Sardinia and amongst the top companies in Italy, starting from an existent project which has been transformed thanks to a new ethic and sustainable design approach imprinted by Demontis&Partners studio, Ichnos 19 built a 350,00 sqm villa which has been certified by @CASACLIMA agency in its highest class of energy performance "GOLD", furthermore has been added the protocol NATURE that guarantee the environmental compatibility of the construction itself.

Nowadays, despite the difficulties of the sector and the general situation, the development of techniques and innovative construction system is giving fruits, allowing the enterprise to withstand the impact of building crisis choosing a niche market guaranteed in rigor and reliability by @CASACLIMA, LEED AND PASSIVEHAUS.

Another important goal is the collaboration with the Faculty of Engineering of the University of Cagliari that is studying the Ichnos 19 building techniques and construction systems, cooperating on developing of new patents.

Today Ichnos 19 has a scientific know how capable of already operating with techniques, systems, construction details, engineering projects, architecture and design for the coming 5 years and an expansion program to maintain and implement this trend in the future.

Ichnos 19 today designs and makes construction certified by @CASACLIMA, LEED and PASSIVEHAUS

It also supports institutions and private clients, with its own measurements tools appropriate to verify and monitor the most sensitive parameters as the air tightness of buildings envelope, through the Blower Door Test, and the verification of the levels of

Ichnos 19 S.r.l. – www.ichnos19.com

Legal head office: via Dei Falconi, 45 – 09126 Cagliari - p.i. 03062590926

mobile: +39 392 0191919 – e-mail: alessandrodemontis@tiscali.it

Operative head office 1: via Dei Falconi, 45 – 09126 – Cagliari

Operative head office 2: Complesso Geo Village – Torre 5 – 07026 - Olbia

radioactivity by GAMMA rays of all the materials used for its construction and the whole finished product, including the verification of radon gas levels released by the soil.

THE NEAR FUTURE - INTERNATIONALIZATION

Positives response received by many Venture Capitalists and Green Economy multinational corporations, mostly operating in the Silicon Valley in California - U.S.A., are supporting our decision to pursue the path of Ichnos 19 international growth. 2016 target will be to expand these contacts and choose the best way to raise capital budget to invest in research and development, and at the same time to expand growing Green buildings market.

RESEARCH AND DEVELOPMENT, CONFERENCES, PUBLICATIONS

Research and development:

- April 2016 - Research Title: "Investigation focused on checking the passive acoustic requirements in an innovative residential complex made out of Cross Laminated Timber with technology called X-lam and researching for technological solutions to achieve the same requirements on the construction site."
Principal Investigator: Prof. Eng. Andrea Frattolillo, Department of Mechanical Engineering, Environmental Engineering, University of Cagliari, E-mail andrea.frattolillo@unica.it - Tel. +390706755265
Research Scientist: Ph.D. Eng. Agostino Carlo Mastino, Department of Civil and Environmental Engineering and Architecture - University of Cagliari, Via Marengo 3 09123 Cagliari – Italy; e-mail: costantino.mastino@fisicatecnica-unica.it
Patents owner: Eng. Alessandro Demontis (Owner of Demontis&Partners and ICHNOS19 srl), Via dei Falconi 45 09126 Cagliari – Italy; e-mail: alessandrodemontis@tiscali.it
- March 2015 - Research Title: BEHAVIOR OF A LIGHTWEIGHT EXTERNAL WALL UNDER MEDITERRANEAN CLIMATIC CONDITIONS
Presented during an International conference in cooperation with the Department of Civil and Environmental Engineering and Architecture - University of Cagliari
Lecturers: Luigi A. Besalduch, Giuseppe Desogus, Stefania Di Benedetto and Roberto Ricciu. Department of Civil and Environmental Engineering and Architecture - University of Cagliari, Via Marengo 3 09123 Cagliari – Italy; e-mail: g.desogus@unica.it ; Alessandro Demontis, ICHNOS19 srl, Via dei Falconi 45 09126 Cagliari – Italy; e-mail: alessandrodemontis@tiscali.it.

Conferences:

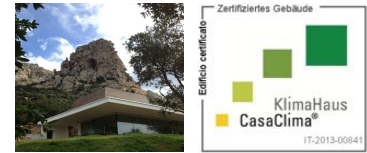
- May 21st 2015 – Cagliari. @CASACLIMA Tour 2015 – Topic: "Efficiency & Sustainability, a Gold Nature Villa in Sardinia" during this event the world first residential complex beyond the Zero Energy Building concept has been presented in public. Speaker: Eng. Alessandro Demontis (CEO & Co-founder of ICHNOS 19)
- October 7th 2014, Cagliari (Italy) - Topic: "*Presentazione in prima mondiale della prima residenza commercializzata al mondo che chiude il cerchio dell'energia*", "Introduction to the world premiere of the first commercialized home to the world that closes the energy circle" [ENG], a conference hold during the azero tour organized by Edicom Edizioni, a trade magazine – Speaker: Eng. Alessandro Demontis (CEO & Co-founder ICHNOS 19)
- October 3rd 2014, Bari (Italy) – Topic : "*Efficienza & Sostenibilità, una villa Gold Nature in Sardegna*" *Efficiency and Sustainability, a Gold Nature villa in Sardinia*" [ENG]. Speaker: Eng. Alessandro Demontis (CEO & Co-founder ICHNOS 19) as part of the Fair KLIMAHaus at Bari.

Publications:

- December 2014 – special insert in the magazine CASABELLA
- September 2014 - Magazine Klima Haus - - Article title: "Una Gold Nature a forma di Ziqqurat"
- 26th March 2014 SARDINIA POST online newspaper article title: "Certificata la prima "@CASACLIMA gold Nature nell'Isola: da un'impresa cagliaritano la casa eco-sostenibile"; "First @CASACLIMA gold nature certified in our Island: built by a construction enterprise based on Cagliari" [ENG]. <http://www.sardiniapost.it/innovazione/certificata-la-prima-casaclima-gold-nature-nellisola-da-unimpresa-cagliaritano-la-casa-eco-sostenibile/>
- October 2013 @CASACLIMA web magazine, article title: "Certificata la prima CASA ATTIVA IN SARDEGNA" ; "First active house certified in Sardinia" [ENG]. <http://www.agenziacasaclima.it/it/agenzia-casaclima/chi-siamo/novit%C3%A0-certificata-la-prima-casa-nature-attiva-in-sardegna/95-22165.html>

Thesis:

- Title: "Estudio de viabilidad comercial de un producto de la empresa ICHNOS 19 basada en los lineamientos de bio-arquitectura y ahorro de energía" –"Study of commercialization of a company product ICHNOS 19 guidelines based on bio-architecture and energy saving "[ENG].
Degree thesis in Economics realized by Romina Natali Lodi who is graduated at the Universidad F.A.S.T.A.- Facultad de Ciencias Económicas Carrera Licenciatura en Comercialización, Mar del Plata (Argentine), written about our company taken as a case study.



Student: Romina Natalí Lodi. T. +393347229198, M. romina_lodi@hotmail.com

Professor: Laura Cipriano

Tutor: Eng. Alessandro Demontis (CEO & Co-founder of ICHNOS 19)

Academic Tutor: Lic. Hernán Toniut.

Teaching assistant: Gabriela Morettini.

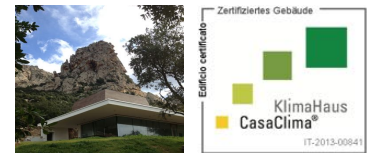
- Title: A tourist residential building: a practical case of energy certification @CASACLIMA Gold nature.
Final work at the 2nd level Master course: "Green buildings and energy efficiency", 60 credits and 520 hours made by Eng. Elisabetta Murgia T. +393408170937, M. elisabettamurgia10@tiscali.it
Master director: Prof. Antonello Sanna - Department of Civil and Environmental Engineering and Architecture. E- mail: asanna@unica.it - Tel. +390706755337
Academic tutor: PhD. Eng. Giuseppe Desogus - Department of Civil and Environmental Engineering and Architecture. E-mail: gdesogus@unica.it - Tel. +39 0706755395
External tutor: Alessandro Demontis (CEO & Co-founder of ICHNOS 19)

MAJOR AWARDS

- Year 2014 - @CASACLIMA Awards 2014 - Competition for the Best @CASACLIMA 2014. 1st prize in the category residential buildings.

OTHER ACTIVITIES

- Year 2014 - Member of the team elected to draft the "Regional environmental energy plan of Sardinia" - Department of Industry - Sardinia Region
- October 2013 - ICHNOS 19 became a Co-financiers of a 2-year Master class in collaboration with the Department of Civil and Environmental Engineering and Architecture - University of Cagliari, which was aimed at the investigation of the construction stratigraphic techniques, unique in the world, developed by ICHNOS 19 srl - Cagliari.
- August 2013, Villamar (Italy) - Blower Door Test for AREA (Regional Social housing authority) in a residential building, in collaboration with the Department of Civil and Environmental Engineering and Architecture - University of Cagliari.
- July 2012, Cagliari - ART ECO expo - Parco di Monte Claro. Exhibition of own works.
- July 2012, Cagliari Palazzo Civico - Exhibition of own works during the main exhibition of the best thesis of architecture, organized by Sardinian Young Architects Association (GIAS). Title: "TESI DI PASSAGGIO DI ARCHITETTI A PASSEGGIO"
- June 15th 2012, Rome - Introduction to a "Zero Energy Building" complex called "Acquamarina" during the television program "L'aria che tira" on the tv national channel LA7.



A NEW REAL ESTATE DEVELOPMENT: "AREA ICHNOS 19"

It's going to start in the next months a new real estate development which will give us much exposure and will last the next ten years.

Area Ichnos 19: A buildings complex thought to have a near zero energy impact and certified by @CASACLIMA agency and LEED located in the city of Cagliari.

In the largest empty area in the city center of Cagliari we are going to build the first real estate transaction In Europe characterized by an ethic and sustainable way of constructing and with an high energy efficiency certified by @CASACLIMA agency and LEED (Leadership in Energy and Environmental Design, the most important protocol regarding the energy valuation powered by the U.S. Green Building Council)

Ichnos 19, in collaboration with Demontis&Partners - Ethics and Sustainable Architecture and Engineering, is going to build a residential complex characterized by a "zero energy impact", beyond the concept called ZEB (Zero Energy Buildings) where the annual energy demand is satisfied for the 60% by the use of renewable energy sources, and where the technological systems are completely integrated in the building. This goal can not ignore the energy performance of the building itself, maximized through a proper design of the construction system and of the architectural aspect.

Furthermore on the basis of the agreement reached between the European Parliament and the Council, for the revision of Directive EC / 91/2002 on the energy performance regarding buildings, "Nearly Zero Energy Buildings", all buildings built from January 1, 2021 must have compulsorily high energy efficiency standards and their energy needs must be covered from renewable sources to a very significant extent.

The energy performance of this complex demonstrate that the "Area Ichnos 19" real estate development is placed far ahead in comparison of its legal times, appearing immediately in the forefront on whether the more restrictive sectoral directives as from today, exceeding the most stringent regulations 2020. AREA ICHNOS 19 will produce at least about 80% of all the energy necessary for both spaces, private and common, but the goal is to arrive to 100% as a result of the final project.

The complex consists on 6 residential towers, each of which is typically composed by:

- 4 units on the ground floor, each of them with a variable surface area between 70 sqm and 80 sqm, with large terraces partially covered and private garden.
- 20 housing units from the first to the sixth floor, each of them with a variable surface area between 80 sqm to 85 sqm, with large covered porches along their perimeter.

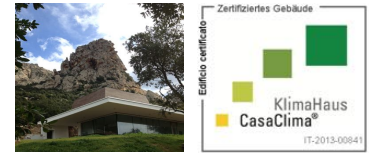
Ichnos 19 S.r.l. – www.ichnos19.com

Legal head office: via Dei Falconi, 45 – 09126 Cagliari - p.i. 03062590926

mobile: +39 392 0191919 – e-mail: alessandrodemontis@tiscali.it

Operative head office 1: via Dei Falconi, 45 – 09126 – Cagliari

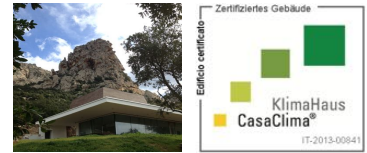
Operative head office 2: Complesso Geo Village – Torre 5 – 07026 - Olbia



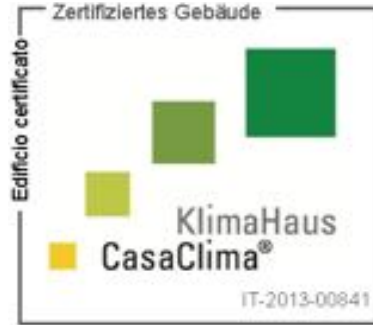
- 2 penthouse apartments on the top floor, each of them with a variable surface area between 130 sqm and 140 sqm, with large terraces partially covered.

In order to complete the residential quartier there will be a commercial area of about 13,000 cubic meters where we'll attract the interest of facilities such as pharmacy, bakery, bars, veterinarian, clinic, club house with a tennis court and two service paddle courts, gym, jogging trails within a mini private park for outdoor exercise, outdoor and indoor play area for children, a pets leisure area, bank and many other services.

Alessandro Demontis
CEO&Co-founder of ICHNOS 19
mobile: +393920191919
e-mail: alessandrodemontis@tiscali.it
web: www.ichnos19.com
Twitter: [@AlexDimonios](https://twitter.com/AlexDimonios)
Linkedin: [alessandro-demontis-31a09358](https://www.linkedin.com/in/alessandro-demontis-31a09358)



Ichnos 19 Team



CEO Ichnos 19 Eng. Alessandro Demontis and @CASACLIMA magazine Vice Director Ulrich Klammsteiner



First prize @CASACLIMA GOLD NATURE in Sardinia: certificate assignment.