Profile Status: Published

Technology Offer

Energy analysis of factories and buildings.

Summary

Energy area of Spanish technology centre is offering new analysis techniques to detect energy saving costs, improvements on efficiency and integration of systems based on renewable energy. Partners as factories, buildings, companies, charge stations, suppliers, warehouses, etc, are sought for services agreement or research cooperation agreement in the field of energy efficiency.

Creation Date	22 November 2017
Last Update	05 December 2017
Expiration Date	05 December 2018
Reference	TOES20171122002
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/8bc81019-f97f-4f51-88b9-8a8dc615bc9a

Details

Description

Spanish horizontally integrated technology centre, is specialized in offer global solutions to companies. It provides them, since 1994, developments, processes, systems and products. It operates in five economic sectors: industry, energy and environment, construction and infrastructure, agrofood, health and quality of life.

To reduce the amount of energy required to provide products and services, is the aim of energy efficiency. Improvements in energy efficiency are generally achieved by adopting a more efficient technology or production process or by application of commonly accepted methods to reduce energy losses. This is also the case for a building efficiency at the time of modelating its construction.

Spanish technology centre has broad experience optimising processes and formulations of energy efficiency of buildings. Besides, it has developed new techniques to detect energy saving costs, improvements on efficiency and integration of systems based on renewable energy. The modus operandi is based on the analysis of all the energy systems, the energy flows and all the elements that can influence on the normal energy functioning of the factory or building.

The technology centre offers its techniques and know-how to companies, buildings, charge stations, suppliers and warehouses interested in:
- Investing in obtaining innovative solutions to improve the energy efficiency of buildings.
- Obtaining sharp and detailed analysis and solutions and not only focused on diagnosis.

Partners sought:

- Services agreement to companies, buildings, charge stations, suppliers and warehouses interested on energy efficiency of buildings.
- The technology centre is also interested in research cooperation agreement with entities (companies, universities or research and technology centres) interested in developing a project or developing new products for future calls in Horizon2020 on energy efficiency.

Advantages and Innovations

Energy efficiency has different ways of being achieved. Regarding its application on buildings, an appropriate energy efficient plan is basic to shave on costs after or during its construction if appropriate measures which have not being taken into account before.

Using the techniques developed by the technology centre, the client will obtain a rigorous report not only to obtain a diagnosis but also, it will be elaborated an energy improvement analysis to enhance the energy efficiency of a building of their interest.

Technology centre's building energy efficiency method consists on:
- Energy analysis of companies and/or buildings with the aim of detecting opportunities based on energy safe costs, improvements on efficiency and renewable energy based systems integration.
- Analysis of all the energy systems, energy flows and all the elements that could influence the global energy use of the factory and/or the building.
- Suggestion and advice of a set of innovative solutions that are assessed under a technical, energy and economically point of view.

Stage of Development

Available for demonstration

IPR Status

Secret Know-how

Profile Origin

Private (in-house) research

Keywords

Technology

02006006	Construction engineering (design, simulation)
04007001	Energy management
04007004	Thermal insulation

Market

06008	Energy Storage
09007001	Construction companies
09007004	Engineering and consulting services related to construction

NACE

F.41.1.0	Development of building projects
F.43.3.9	Other building completion and finishing

M.72.1.9	Other research and experimental development on natural sciences and engineering

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

Contact Person

Vera Lullo

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

R&D Institution

Year Established

0

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Spanish

Client Country

Spain

Partner Sought

Type and Role of Partner Sought

Services agreement:
- Partners sought are companies, private buildings, charge stations, suppliers, warehouses, etc.
- The type of cooperation depends on the needs of the client.

Research Cooperation Agreement:
- Any type of entity: companies, universities or research and technology centres
- Interested in developing an international R&D project on energy efficiency.

Type and Size of Partner Sought

SME 11-50,University,R&D Institution,SME <10,251-500,SME 51-250

Type of Partnership Considered

Services agreement
Research cooperation agreement

Attachments

Profile Status: Published

Technology Offer

Wooden prefabricated construction system with a infill insulation based on natural materials

Summary

A Czech university developed a new wooden prefabricated construction system with a filling insulation based on natural materials. The technology is addressed for civil and residential construction. During development, the emphasis was on simplicity of the system at a low cost. The university is looking for construction or building company interested to expand the existing production of this new system and offers license agreement and technical cooperation agreement.

Creation Date	04 December 2017
Last Update	11 December 2017
Expiration Date	11 December 2018
Reference	TOCZ20171129001
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/e5d77d0a-1fb6-45b8-81bd-fc9096a80a57

Details

Description

University from the Czech Republic developed an innovative technology of wooden prefabricated construction system that can be used for civil and residential construction.

Presented technology is based on new wooden prefabricated construction system with a filling insulation based on natural materials and is simple for use and at a low cost.

The system can be supplied in three different technical solutions: Premium, Optimal, Economy. Properties of all three prototypes were verified by fire, acoustic, static and thermal technical testing in accredited laboratories. Each variant has different characteristics and is suitable for any other type of civil and residental construction. Construction system was designed with regard to the requirements of passive construction. All variants of claddings meet the requirement for transmission heat loss coefficient for passive houses.

The university offers license agreement or technical cooperation agreement to the companies from construction and building sector. The university is ready to transfer the rights involving the authorization of use of the system to interested companies. The university is also ready to share the skills and knowledge of the offered system to further development of technical aspects of the technology.

Advantages and Innovations

The advantage of the new technology is the elimination of thermal bridges in the building envelope. This is achieved by using a new support element filled with blown insulation from natural materials, which fills the envelope cavities. Wooden prefabricated structural system used as the main supporting element castellated beams - multipurpose wood load-bearing element for structures thermally insulated by blown insulation with. Beam is a variable component that allows adjust the design of particular details of buildings according to the actual needs of the designer.
Another innovative feature of the new wooden structural system is structural perforated lining element with low diffusion resistance, which is utilized in one variant of developed structure.

Stage of Development

Prototype available for demonstration

IPR Status

Design Rights,Other

Comment Regarding IPR status

Protection of intellectual property:
Utility model no.22209 " Multipurpose wood load-bearing element for structures thermally insulated by blown insulation with"
Utility model no.27796 "Structural perforated lining element with low diffusion resistance"
Verified technology, no. 042 / 05-11-2012_OT "Construction system based on wood intended for construction insulated with blown insulation"
The utility model “Structural perforated lining element with low diffusion resistance“ is also submitted to the Slovak Republic and now is awaiting for its approval.

Profile Origin

Other

Keywords

Technology

02006	Construction Technology
02006001	Materials, components and systems for construction
02007002	Building materials

Market

06006	Energy Conservation Related
09007	Construction and Building Products
09007002	Manufacture of construction materials, components and systems

NACE

F.41.2.0	Construction of residential and non-residential buildings
F.43.3.2	Joinery installation

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

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Open for EOI : Yes

Dissemination

Send to Sector Group

Materials

Client

Type and Size of Organisation Behind the Profile

University

Year Established

1845

Already Engaged in Trans-National Cooperation

No.

Certification Standards

ISO 9001

Languages Spoken

English
Slovak
Polish
Czech

Client Country

Czech Republic

Partner Sought

Type and Role of Partner Sought

Searched partner should possess the required technology for the production of the new structural component. The ideal solution is to expand the existing production capacity of this new system for wooden.
The sought partner should be from construction or building sector and for the technical cooperation agreement should also deal with research and development.
The university is ready to offer the license agreement and technical cooperation agreement. They are ready to provide partners with introductory assistance.

Type and Size of Partner Sought

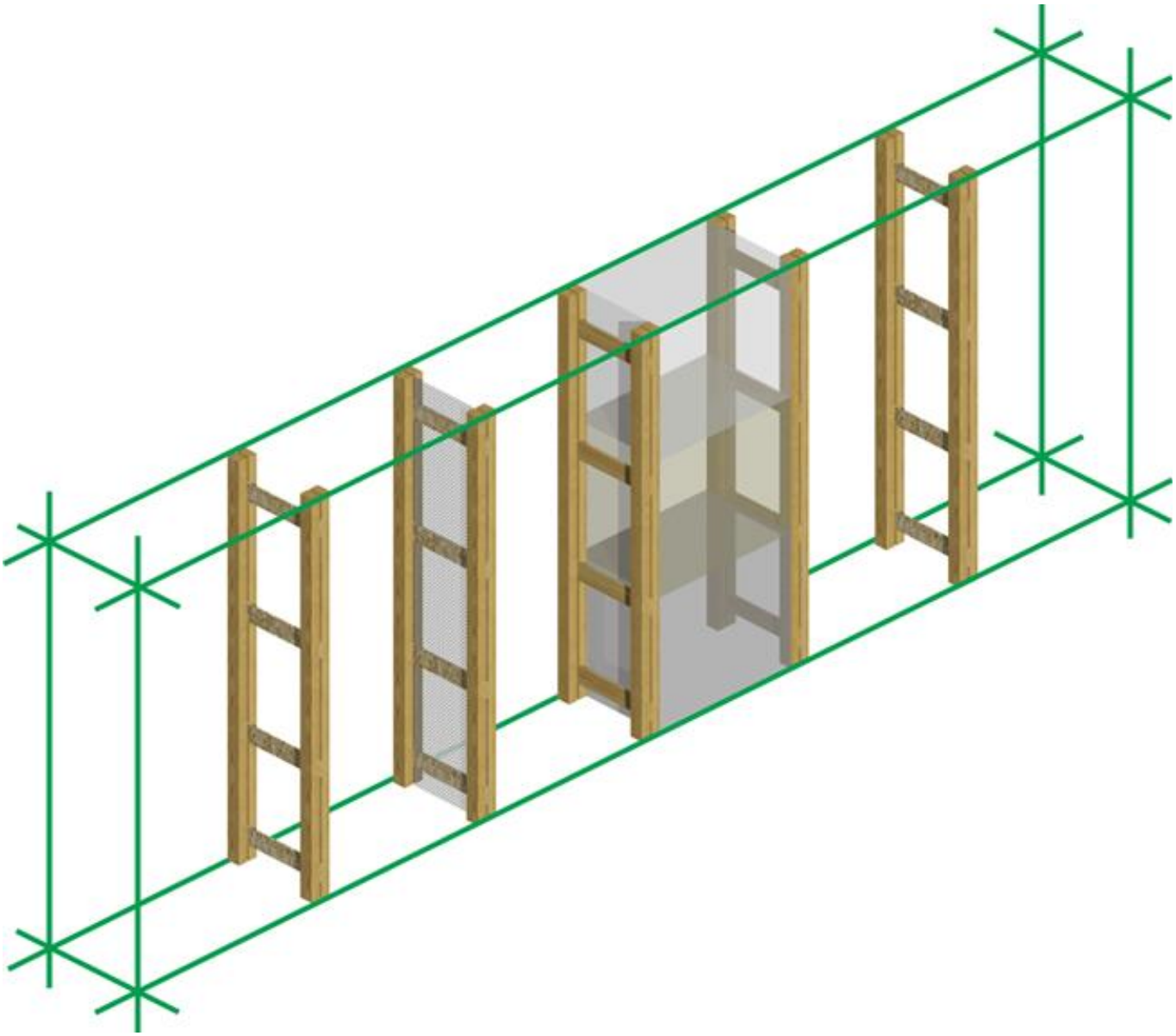
SME 11-50,SME <10,251-500,SME 51-250

Type of Partnership Considered

License agreement
Technical cooperation agreement

Attachments

Grafika.png



Profile Status: Published

Technology Offer

Slovak SME is offering ventilation ducts from aluminium sheets via commercial agreement with technical assistance

Summary

Small business from Slovakia is looking for collaboration with construction companies, developer companies or companies operating in the field of supply of technical equipments for buildings. They are looking for someone who would like to install their ventilation pipelines made from aluminium sheets in the buildings. The preferred type of cooperation would be via commercial agreement with technical assistance.

Creation Date	26 March 2018
Last Update	09 May 2018
Expiration Date	10 May 2019
Reference	TOSK20180219003
Public Link	https://een.ec.europa.eu/tools/services/PRO/Profile/Detail/6f244760-e03b-4bf4-819e-4de9b4c0f3ea

Details

Description

Slovak SME performs calculations, custom made products and installation of aluminium piping. This company has 30 years of practise with ventilation technology. The Slovak company was established in 1994 as family business. The main activity of this company is focused on the production and installation of ventilation systems for residential and family houses. The equipment is tailored to the exact needs of the future user.

The piping itself is designed for vertical installation, it is rectangular. The piping has an excellent sealing, long service life, is fireproof, is connected to the conductor and also is seawater resistant.

The Slovak company would prefer the cooperation via commercial agreement with assistance. They are looking for a business partner who would like to install their ventilation pipelines in buildings. The offered technology could be suitable for climbing ventilation irons for apartment buildings and houses, offices, also for saunas, pools, laboratories, historical buildings, basements, server rooms, damp areas (kitchens, working rooms, stock rooms).

Advantages and Innovations

Advantages of offered technical solution are following:
- very long lifetime (doesn't corrode),
- nonflammable,
- seawater resistance (material: EN AW 5754 - aluminium sheet),
- frost and UV illumination resistance,
- excellent resistance against selected chemical species,
- square shape without flanges (takes less building space in shafts),
- low weight (plate thickeness 1 mm),
- pipeline grounding according to STN (Slovak Technical Norm) 33 0300,
- possibility of vertical and horizontal position (recommended measurements (120 x 120, 140 x 140, 160 x 160, 200 x 200 a 245 x 245 mm).

Advantages of the Slovak company as a partner:
- the years of praxis in this field,
- creativity,
- education in this specific field of activites.

Stage of Development

Already on the market

IPR Status

Secret Know-how

Profile Origin

Other

Keywords

Technology

02006001	Materials, components and systems for construction
02006004	Installations related to construction (energy, lighting, …)

Market

07004008	Other consumer products
09007002	Manufacture of construction materials, components and systems

NACE

F.43.2.2	Plumbing, heat and air conditioning installation
F.43.9.9	Other specialised construction activities n.e.c.

Network Contact

Issuing Partner

ASTER - SOCIETA CONSORTILE PER AZIONI

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Open for EOI : Yes

Client

Type and Size of Organisation Behind the Profile

Industry SME <= 10

Year Established

1994

Turnover

<1M

Already Engaged in Trans-National Cooperation

Yes

Languages Spoken

English
Russian
Slovak
Croatian

Client Country

Slovakia

Partner Sought

Type and Role of Partner Sought

Type: company/industry
Field of activity: construction companies, developer companies, companies operating in the field of supply of technical equipments for buildings
Role: The Slovak company is looking for someone who would like to install in the buildings their ventilation pipelines made from aluminium sheets. As already mentioned, the technology is suitable e.g. for climbing ventilation irons for apartment buildings and houses, also for saunas, pools, laboratories, historical buildings, basements, damp areas. The preferred type of cooperation would be via commercial agreement with technical assistance.

Type and Size of Partner Sought

SME 11-50,SME <10,SME 51-250

Type of Partnership Considered

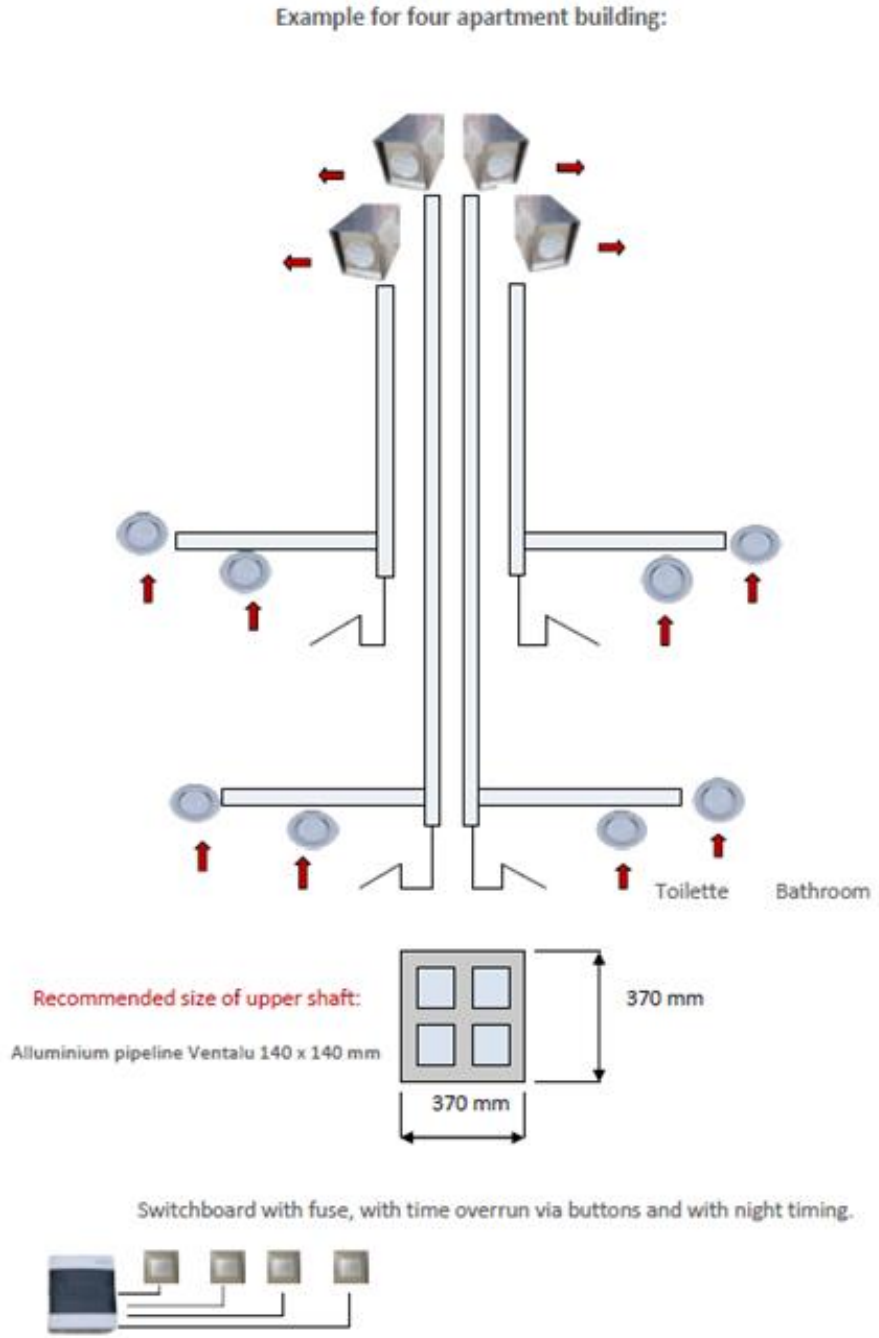
Commercial agreement with technical assistance

Attachments

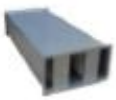
pics3.png



pics4_example.png



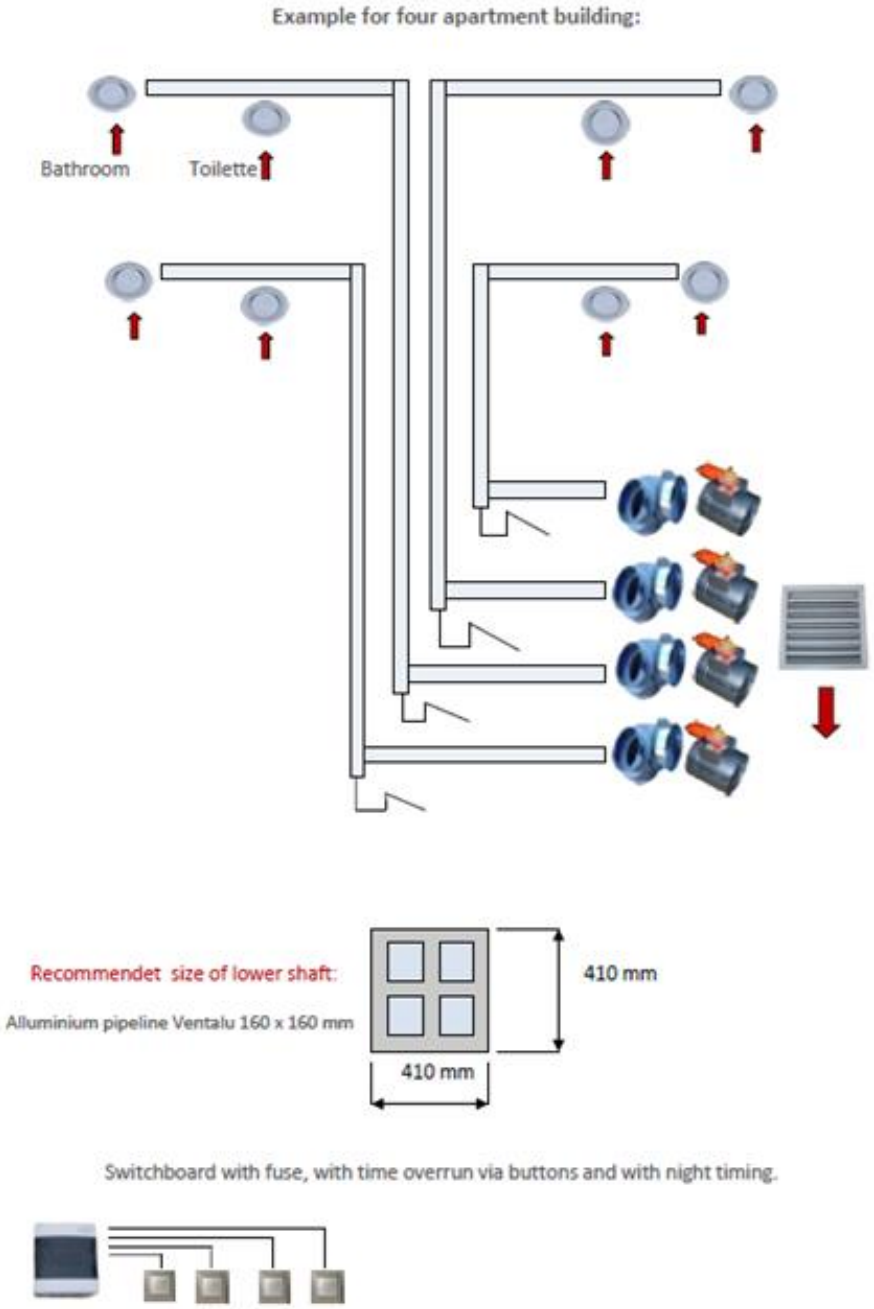
pics7_accessories to ventilation system.png

Silencers THK	Alluminium silencers	Assembly material	Alluminium gitter	Alluminium louvre
				
Alluminium ducts	Alluminium dampers	Alluminium gitter	Difusers	Exclusive difusers
				



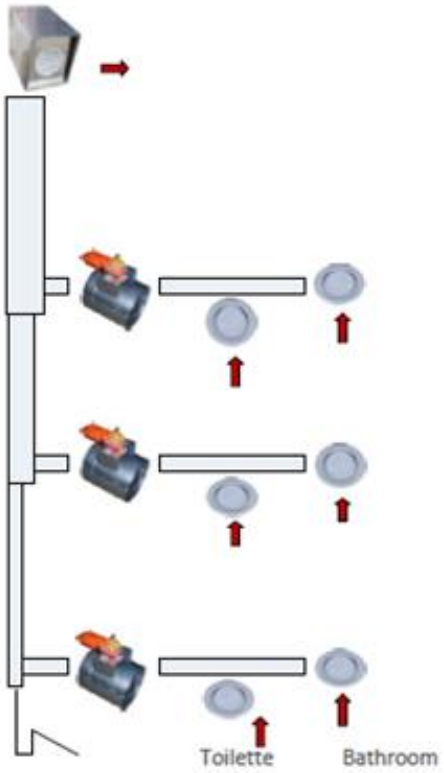


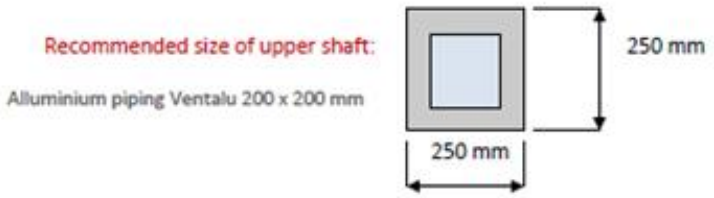
pics5_example.png

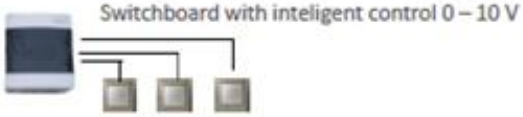


pics6_example.png

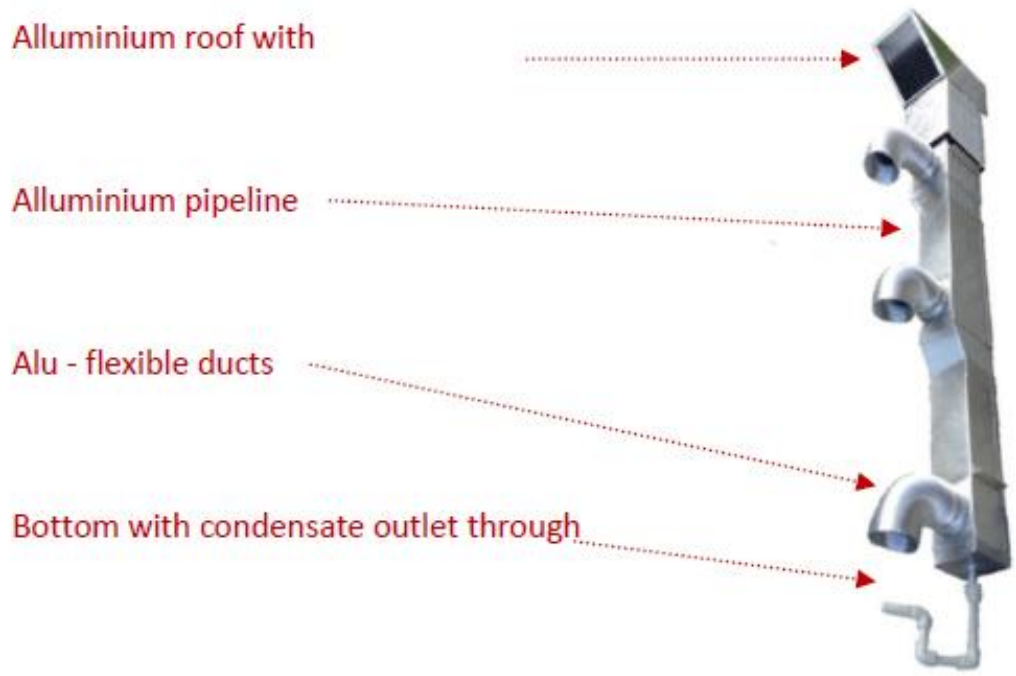
Example for three - apartment building :







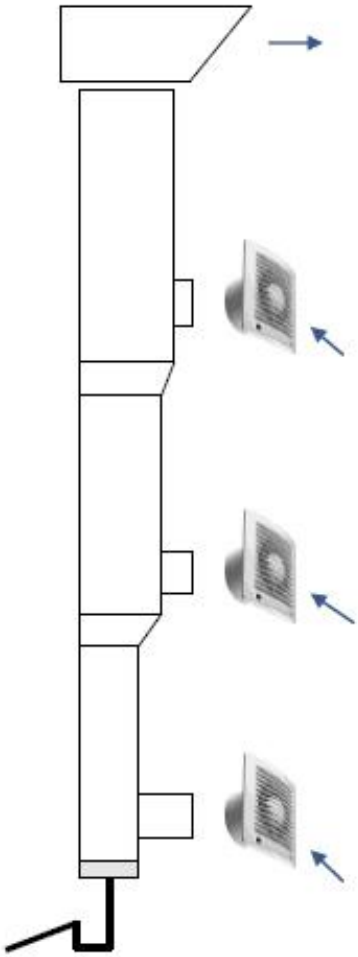
pic1.png



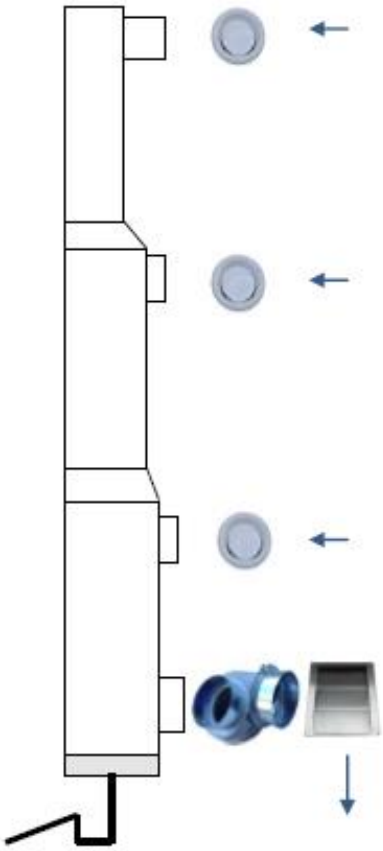
pics2_practical use.png

Use in practise:

Bottom up air outlet



Top down air outlet



Condensate outlet ½"