This Annual Report presents an overview of VIPA International’s work since the General Assembly held in Vienna in September 2018. The activities carried out during this period could not have been possible without the support of the VIPA International Board and the active contribution of VIPA International members across the association’s Working Groups. The VIPA International office thanks its members for their support!

Not yet a VIPA International member?

VIPA International membership is open to manufacturers of Vacuum Insulation Panels (VIPs), as well as material and equipment suppliers, but also to companies with an interest in the VIP industry that do not fall in the previous categories.

Academia and non-profit associations with an interest in the VIP industry are also welcome to join the association.

More info on how to become a member:

<table>
<thead>
<tr>
<th>Scan the code</th>
</tr>
</thead>
</table>

Have a look at our website

https://vipa-international.org/become-a-member

Send us an email

VIPA-international@kellencompany.com
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1. Foreword from the President

Dear VIPA International member,

This year our association is celebrating five years of existence. It will be a pleasure to welcome you to our General Assembly in Kyoto, Japan, later this month to reflect on the value generated to our members and to discuss how we can continue improving our activities in the next years.

In 2018, VIPA International organised for the first time ever, a conference with invited speakers end September in Vienna. The board felt it was important to have an event to discuss our technology with policy-makers, architects and building professionals so we can take it forward and offer a better product to the market. We have succeed in offering an interesting debate with our industry, members and non-members alike, authorities and building experts.

Throughout the past year, the board of directors discussed various projects for our association. We decided to focus on communications so that we become a more visible association while at the same time we increase awareness to our product. On the technical side, one study was completed and we commissioned a new study about the effect of moisture content on the thermal conductivity of different types of fumed silica VIPs and behaviour of different types of fiberglass desiccants. The study was initiated this summer and will be completed by July 2020. It demonstrates that we cater for all types of producers, fumed silica and fiberglass alike.

In terms of standardisation, the EN 17140 was voted last year but unfortunately the standard still needs some further clarifications before it can enter into force, hopefully by early 2020. At international level, the ISO group ISO/TC 163/SC 03/WG 11 is now preparing a new draft standard. The previous drafts did not meet enough positive votes to move to the next approval stage. Our association and members are strong supporters of standardisation. Most of our members are active in both standardisation groups, which will hopefully enable full harmonization and alignment between both the European and the international standard.

On the membership side, over the past year we lost some members and welcomed new ones. VIPA International is still a rather young association and we welcome all companies active in our sector to join our activities and to contribute to the growth and success of VIPA International. We are a proud sponsor of IVIS 2019 in Japan and hope the event will enable new relationships and connections.

I hope you find this publication an interesting summary of VIPA International's activities and I look forward to meeting you in Kyoto.

Gregor Erbenich,
President of VIPA International,
Head of Sales & Marketing, Porextherm
2. Mission of VIPA International and organisation chart

The Vacuum Insulation Panel Association (VIPA International) is a global trade association representing the interests of manufacturers of vacuum insulation panels, as well as the supply chain. The mission of the association is to act as the global voice of the vacuum insulation panel industry, promote quality and raise awareness about the potential of saving space and energy costs, and reducing carbon dioxide emissions in a wide range of applications and industries.

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**Scope**
The Board of Directors manages the business and affairs of the association. The Board of Directors is composed of all regular members of the association. Every regular member has the right to nominate one main representative to the Board as well as one substitute/deputy. Each company has one vote but decisions are usually taken by consensus.

**Current composition**
Gregor Erbenich, Porextherm – President
Sebastian Baars, Vaku-Isotherm – Vice-President
Gary Chalkley, Camvac – Treasurer
Roland Caps, va-Q-tec
Yoash Carmi, Avery Dennison Hanita
Vladimir Pogač, Turvac
Tony Scott, Kingspan
Michel Chauvois, Rerox
Uroš Cotelj, Knauf Insulation
Tom Martens, Microtherm
Thomas Heckard, C-Safe
John Balazs, Panasonic

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**President:**
Gregor Erbenich
Porextherm

**2018/2019 Activities**
- Budget control
- Oversight over governance aspects
- Review of activities:
  - Communications
  - Technical studies & standardisation
  - IVIS 2019 in Japan
  - Next steps of conference with invited speakers
  - Membership outreach
  - Statistics

**Meetings and calls**
- 28 September 2018, Vienna, Austria
- 6 February 2019, Leeds, UK
- 28 May 2019, conference call
Executive Committee

Scope

The Executive Committee prepares the meetings and conference calls of the Board and the decisions that need to be taken. It also acts as main point of contact to the office (Kellen) when urgent decisions are needed. The Executive Committee is composed of the President, the Vice-President and the Treasurer of the association and of the office staff members.

Conference calls:
- 17 December 2018
- 23 January 2019
- 29 April 2019

President: Gregor Erbenich  
Vice-President: Sebastian Baars  
Treasurer: Gary Chalkley
## Digital Communications & Public Affairs Working Group

### Scope
This Working Group was renamed Digital Communications & Public Affairs late 2018 following the board's decision to focus the 2019 activities on communications. Maja Tomazin is now the chair and is supporting the office in improving the communications and outreach of the association.

### Current composition
- Maja Tomazin, Knauf Insulation
- Gregor Erbenich, Porextherm
- Camilla Meineche & Insook Yoo, va-Q-tec
- Gary Chalkley, Cannvac
- John Garbutt, Kingspan
- Michel Chauvais & Leonie Bietrix-Ogier, Rexor
- Alison Navon, Avery Dennison Hanita
- Jennifer Archibald, Panasonic
- Alyssa Roberts, C-Safe
- Tom Martens, Microtherm

### Chair:
Maja Tomazin  
Knauf Insulation

### 2018/2019 Activities
- 2019 Communications Strategy
- Website and SEO upgrade
- LinkedIn Company page
- Paid advertisement
- Animated video on VIPs in appliances
- Press releases & case studies
- Monitoring of relevant EU legislation
- Bi-annual Newsletter
- Annual Report

### Conference calls
- 23 January 2019
- 13 May 2019
## Technical Working Group

### Scope
The Technical Working Group works on recommendations to the Board of Directors on any technical matter related to VIPs and the activities of the association. This Working Group is open to all members: regular, associate and academia.

### Current composition
Yoash Carmi, Avery Dennison Hanita  
Christoph Sprengard, FIW  
Sebastian Gralla & Flávia Almeida, va-Q-tec  
Pascal Rousset & Estelle Perrin, Rexor  
Hans-Frieder Eberhardt, Porextherm  
Justin Davies, Kingspan  
Marko Meglič, Knauf Insulation  
Tadej Sekavcnik & Stefaan Van Hoed, Turvac  
Kojima Shinya & Kenta Miyamoto, Panasonic  
Tom Martens, Microtherm  
Jiri Zach, Brno University  
Harjit Singh, Brunel University of London  
Kaushik Biswas, Oak Ridge National Laboratory  
Tom Heckard, C-Safe

### Chair
Yoad Carmi  
Avery Dennison Hanita

### 2018/2019 Activities
- Review proposals for new studies and advise the Board on their acceptance  
- Monitor progress on the studies financed by the association  
- Monitor standardisation process worldwide  
- Publish Technical Bulletins on issue of interest

### Meetings and calls
- 26 September 2018, Vienna, Austria  
- 23 March 2019, conference call
### 3. Activities of VIPA International

#### 3.1 Welcome to new members to the association

<table>
<thead>
<tr>
<th>Company</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panasonic</td>
<td>Panasonic joined as regular member in January 2019. Panasonic solutions for manufacturers brings strategic innovations to customers’ product development to enable manufacturers to plan and build world-class solutions. Panasonic’s industrial technologies range from electronic and automation components and devices, materials, batteries and a wide range of unique solutions. They provide manufacturers with the performance, quality and reliability synonymous with the Panasonic brand.</td>
</tr>
<tr>
<td>Brunel University London</td>
<td>Brunel University joined as academia member in September 2018. The university would like to keep abreast with the aspirations and the activities of the Vacuum Insulation Panel industry, align their research with the industry and inform the stakeholders about latest research outcomes. Collaboration with industry on research and development projects is also something they envisage.</td>
</tr>
<tr>
<td>Oak Ridge National Laboratory</td>
<td>Oak Ridge National Laboratory joined VIPA International as an academia member in July 2019. Oak Ridge National Laboratory is the largest US Department of Energy science and energy laboratory. Dr. Kaushik Biswas is a staff scientist at Oak Ridge National Laboratory (ORNL) with 9+ years of building science-related R&amp;D experience. His work is focused on building materials and systems R&amp;D as well as building energy performance and durability analyses. He is interested in multi-disciplinary research and has a proven track-record of leading project teams with members from research organizations, academia and industry.</td>
</tr>
</tbody>
</table>
3.2 More space and saving energy with Vacuum Insulation Panels
Conference in Vienna

On 27 September 2018, over 50 participants gathered in Vienna, Austria, to attend the first ever conference organised by VIPA International. Under the theme ‘More space and saving energy with Vacuum Insulation Panels’ the conference gathered a panel of speakers from different backgrounds to discuss building energy efficiency and the role of super insulation technologies like Vacuum Insulation Panels (VIPs).

Maarten de Groote of the Brussels-based think-thank Buildings Performance Institute Europe spoke about the different initiatives of the European Union in the building sector and the challenges to renovate the existing building stock, but also about the opportunities that can be seized by producers of VIPs in this process. He highlighted the impact of national policies, pilot and show cases and the focus on the end user.

Thomas Kreitmayer of the Vienna City Council focused on the role of building renovation for urban efficiency in the city of Vienna. He presented the main Viennese approaches in increasing the energy efficiency of the building sector and the challenges therein, given the large stock of historical buildings in the city.

The discussion continued with the presentation of Florent Loussouarn of Pouget Consultants, who spoke about the need for industrial solutions for renovation. He showed a couple of videos of 1-day-jobsites where apartments in Paris were renovated with VIPs in just one working day achieving greater insulation with minimal disruption for the apartment tenants. His presentation showed that time has come to massify jobsite applications with Vacuum Insulation Panels.

Ben Arts of IQ Panels (NL) illustrated how the combination of high thermal performance and low thickness of Vacuum Insulation Panels allowed developing spandrel panels which fit perfectly within the current window frames while meeting strict energy regulations. He illustrated the fit for purpose of VIP system solutions for the renovation of residential buildings with several jobsite illustrations.

Bernhard Karner of Rooftrade (AU) presented the solutions for flat roofs and terraces his company installed in Austria. A lower thickness of the insulation complex allows to meet the challenge of restricted space both in renovation and new built.

Throughout the different interventions and on the debate that followed it was highlighted that there is still more to be done in terms of awareness about VIPs and their potential in building renovation, especially in cities where space is at premium. The real-life examples provided by Pouget Consultants, IQ Panel and Rooftrade show that this technology is already being used successfully in Europe.

The board of VIPA International was very pleased with this first conference and plans to continue organising similar events every two years.
3.3 Technical matters

Technical Studies


The objective of the study was to explore the different methods for application of VIPs in ultra-low energy consumption prefabricated buildings. The study looked into the development of VIP-integrated precasted-walls with a decorative surface layer.

The Technical Working Group also approved a new study, which is an extension of the Avery Dennison Hanita study on the development of an advanced technique for measuring the effect of moisture content on the thermal conductivity of VIPs. The new study will focus on the effect of moisture content on the thermal conductivity of different types of fumed silica VIPs. In addition, it will also investigate the behaviour of different types of fiberglass desiccants. The study was initiated this summer and will be completed by July 2020.

All studies financed by VIPA International are available only for the members of the association.

Standardisation

The European standard EN 17140 was voted early 2018. The final text had to be tweaked to accommodate comments made by AFNOR, the French standardisation body. A few clarifications are still necessary, following comments made by an external consultant (HAS consultant) Publication is expected early 2020.

At ISO level, ISO TC 163, SC 3, Working Group 11 submitted the text to public enquiry (ISO/DIS 16478) on three occasions but all of them failed to gather enough positive votes for the text to move to the next approval stage in the process. The group is now preparing a new draft. The next meeting of the ISO TC 163, SC 3, Working Group 11 will take place in Seoul, South Korea, right after IVIS 2019.

VIPA International has a liaison status within CEN TC 88 WG 11. Turvac represents VIPA in the meetings.

RAL VIP Label

VIPA International members which are part of the GSH VIP group worked on the review of the quality assessment rules of the VIP RAL quality label (document RAL-GZ 960). The objective was to go beyond the existing rules, integrate the standard EN 17140, and extend the label to cover all core materials (fumed silica, glass fiber, powders, foams) and different VIP applications.

The newly GZ-960 document extends the label to water tanks, refrigerators, appliances and temperature-controlled boxes.

The document was approved by the RAL this year and is already in force. It can be downloaded from the website of VIPA International.
3.4 Communication activities

The Board of Directors decided that communications would be the main focus of the association for the working year 2019. The Working Group was renamed Digital Communications & Public Affairs and a new chair was selected. Based on the recommendations of the Board of Directors, the Working Group put together a Communications Strategy with the goal of increasing visibility and attracting new companies to join the association. The Strategy includes optimization of the current tools and platforms: the VIPA International website, press releases, case studies, newsletters and the annual report.

All pages and sections of the VIPA International website have been reworked, updated and optimized for SEO purposes.

In the graph, the blue line shows the website audience overview from 1/1/2019 to 15/8/19, the orange line shows the comparison with the same period last year.

IVIS KYOTO 2019

IVIS in Kyoto (19-20 September) will continue to be used as a tool for raising awareness about the association and for establishing contact with potential members. As a Platinum Sponsor, VIPA International will get a maximum visibility by a speaking slot for the VIPA Intl President in the opening session, a logo mention on the IVIS website, an insert flyer in the conference bag and a two-page advertisement in the conference book.

To further increase awareness of VIPs, a LinkedIn account has been set up (more information about this on the next page) and 2 videos have been published. In September 2018, a general information video was published, explaining the many benefits of VIPs and showing the different application possibilities. The second video focused on the use of VIPs in appliances, explaining the benefits for energy efficiency and saving of space. For both videos subtitles were added in Mandarin, Japanese, French, German, Slovenian and Dutch. A third video on the use of VIP in temperature-controlled logistics is in the pipeline to be produced.

Another activity of the communication department included the coordination, preparation and distribution of three case studies, more information on these case studies, can be found on the next page.

For each of these activities, a press release was published, resulting in a total number of eight press releases.
<table>
<thead>
<tr>
<th>Press releases</th>
<th>Case studies</th>
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</thead>
<tbody>
<tr>
<td>VIPA International publishes video about Vacuum Insulation Panels in home appliances – 23 July 2019</td>
<td>London Bridge Station upgraded with Vacuum Insulation Panels – 29 May 2019</td>
</tr>
<tr>
<td>London Bridge Station upgraded with Vacuum Insulation Panels – 29 May 2019</td>
<td></td>
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<tr>
<td>Exciting year ahead for VIPA International – 21 February 2019</td>
<td></td>
</tr>
<tr>
<td>Vacuum Insulation Panel technology used in façade insulation of the Grand Tower Frankfurt - 9 November 2018</td>
<td>Vacuum Insulation Panel technology used in façade insulation of the Grand Tower Frankfurt - 9 November 2018</td>
</tr>
<tr>
<td>Full potential of Vacuum Insulation Panels still unknown by professionals in the building sector - 4 October 2018</td>
<td></td>
</tr>
<tr>
<td>GSH Press release VIP RAL Quality Mark VIP – revised quality regulations – 18 September 2018</td>
<td></td>
</tr>
<tr>
<td>New video about the Vacuum Insulation Panels industry available! - 13 September 2018</td>
<td></td>
</tr>
</tbody>
</table>
Bi-annual Newsletter

VIPA International Newsletters are published bi-annually. During the past year, one edition was published in December 2018 and another one early September 2019.

LinkedIn Company Page

A LinkedIn account was created in March this year and regular contributions are being posted.

LinkedIn posts include the distribution and promotion of the communication material (videos, press releases) and general information as well as sharing reports and information that are of interest for the Vacuum Insulation industry.

In August 2019 the page counted with 56 followers. In case you are not yet following our page, we encourage you to do so. Please also invite relevant connections to follow the VIPA International LinkedIn page.

Technical Bulletin

In July 2019, the VIPA International Technical Working Group published one Technical Bulletin about the calculation of the declaration of thermal performance for VIPs in buildings according the draft product standard prEN 17140. The declaration of thermal performance has to be done by the manufacturers, depending on the dimensions of the panels and their edge effects, including statistical variation of the production and including ageing of the panels.
### 4. Membership categories and criteria

<table>
<thead>
<tr>
<th>Membership categories</th>
<th>Criteria</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Regular members</strong></td>
<td><strong>Manufacturer</strong>: companies that make and market VIPs.</td>
</tr>
<tr>
<td></td>
<td><strong>Material Supplier</strong>: companies supplying components and raw materials to make VIP panels or VIP materials (and which will be used in the final product) such as films, core.</td>
</tr>
<tr>
<td></td>
<td><strong>Equipment supplier</strong>: companies that provide equipment to produce VIP panels or VIP materials.</td>
</tr>
<tr>
<td></td>
<td>Membership fee: 10,000 euros</td>
</tr>
<tr>
<td></td>
<td>Rights and benefits: Influence the Association's strategy and positions: regular members have a seat at the Board</td>
</tr>
<tr>
<td></td>
<td>Participate at the VIPA International Working Groups to move issues forward</td>
</tr>
<tr>
<td></td>
<td>Gain access to industry's resources, guides and updates</td>
</tr>
<tr>
<td></td>
<td>Share knowledge, expertise and best practices</td>
</tr>
<tr>
<td></td>
<td>Network with peer high level representatives from the VIP industry</td>
</tr>
<tr>
<td></td>
<td>Have a common voice in influencing the decision-making process in Europe</td>
</tr>
<tr>
<td></td>
<td>Free participation at the GSH to shape the rules of the RAL VIP Quality Label</td>
</tr>
<tr>
<td><strong>Associate members</strong></td>
<td>Companies with an interest in the VIP industry, which do not fall in the previous categories.</td>
</tr>
<tr>
<td>Membership fee: 5,000 euros</td>
<td></td>
</tr>
<tr>
<td><strong>Academia</strong></td>
<td>Institutes, laboratories and universities with an interest in the VIP industry.</td>
</tr>
<tr>
<td>Membership fee: 500 euros</td>
<td></td>
</tr>
<tr>
<td><strong>Associations</strong></td>
<td>Not-for-profit associations with an interest in VIP industry.</td>
</tr>
<tr>
<td>Membership fee: 500 euros</td>
<td></td>
</tr>
</tbody>
</table>
Interested in joining VIPA International?
Contact the office:

<table>
<thead>
<tr>
<th>VIPA International Office</th>
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</thead>
<tbody>
<tr>
<td>Executive Director</td>
</tr>
<tr>
<td>Raquel Ponte Costa</td>
</tr>
<tr>
<td>Communications &amp; Regulatory Affairs Manager Inge Neetens</td>
</tr>
<tr>
<td>Managing Assistant</td>
</tr>
<tr>
<td>Veerle Guns</td>
</tr>
</tbody>
</table>

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