



**VIPA International
Vacuum Insulation Panel Association
Board Meeting**

4 December 2014, Brussels

➤ *First part of the meeting for members and invited companies*

1. Welcome & introductions

- 1.1 Governance rules
- 1.2 Introductions
- 1.3 Approval of the agenda

2. Roadmap 1st year of activities of VIPA – report on progress made

2.1 Public relations and communications

- 2.1.1 Approve new logo
- 2.1.2 Approve website of the association <http://vipa-international.areadmin.it/>
- 2.1.3 Approve case study <http://goo.gl/uprC1T>

2.2 Regulatory affairs

- 2.2.1 Map of key policy initiatives in Europe, USA and China on energy efficiency with impact on VIPs
- 2.2.2 Map of Brussels' based stakeholders involved in the buildings' debate

2.3 Technical/Standards

- 2.3.1 Discussion and decision on reports/studies to be financed by VIPA
- 2.3.2 Status of the CEN standard discussions

3. Discussion and decision on roadmap 2nd year of activities - 2015

- 3.1 Public Relations and communications (promotion of VIPs)
- 3.2 Public affairs and advocacy
- 3.3 CEN Standard
- 3.4 Participation at IVIS in China, September 2015

➤ *Second part of the meeting for members only*

4. Governance & membership

- 4.1 Approval of the minutes of the meeting of 17 September
- 4.2 Review of the action items of the previous meeting
- 4.3 Finalization of the incorporation process
- 4.4 Approval VIPA International Code of Conduct and Antitrust Compliance Statement
- 4.5 Approval membership application form
- 4.6 Reporting on membership outreach efforts
 - 4.6.1 Approval new members: Camvac; Microtherm; Creek and Hongda
 - 4.6.2 Companies contacted and feedback received
 - 4.6.3 Academia

5. Finances

5.1 2014 financial reporting

5.2 Budget 2015

6. 2015 Calendar of meetings

VIPA General Assembly: 18 September 2015 in Nanjing, China, 14:00-17:00

7. AoB

Governance of the Meeting

Antitrust compliance statement:

Procedure

- At all times refrain from discussing any information which affects the commercial strategy or activities of your company

You must:

- judge in the first place
- Should conduct yourself at all times in compliance with the law
- Avoid discussion of topics, such as those identified in the guidelines, which could create even an appearance of wrongdoing.

In case still some issue are raised:

- Kellen staff intervene if any questions or doubts
- If necessary, legal counsel asked to provide advice

Circulation & Signature of Attendance List

VIPA International

Recap on decisions taken

Mission Statement: act as the global voice of the vacuum insulation panel industry, promote quality and raise awareness of the potential to save space and energy costs and to reduce carbon dioxide emissions in a wide range of applications and industries

9 Founding Members:

- Evonik (Germany)
- Fujian Super Tech (China)
- Hanita Coatings (Israel)
- Kingspan (UK/Ireland)
- Knauf Insulation (Germany)
- Rexor (France)
- Turna (Slovenia)
- Owens Corning (USA)
- va-Q-Tec (Germany)

10,000 EUR annual membership fee for all members: 1 company, 1 vote

Scope and focus areas:

Regulatory affairs:

- Energy efficiency of buildings (new build & renovation) and appliances (incl. end of life, transport & recycling)
- Product sustainability and lifecycle matters (including REACH)
- Transport and packaging related policies (long term vs. short term)

Promotion & education

- Raising awareness among architects and designers on product performance and applications. Emphasizing characteristics such as high technology, quality and durability
- Educating installers and users about product vulnerability
- Developing guidelines on product testing

Standardisation

- Providing support for on-going standardization work (CEN TC88/WG11)

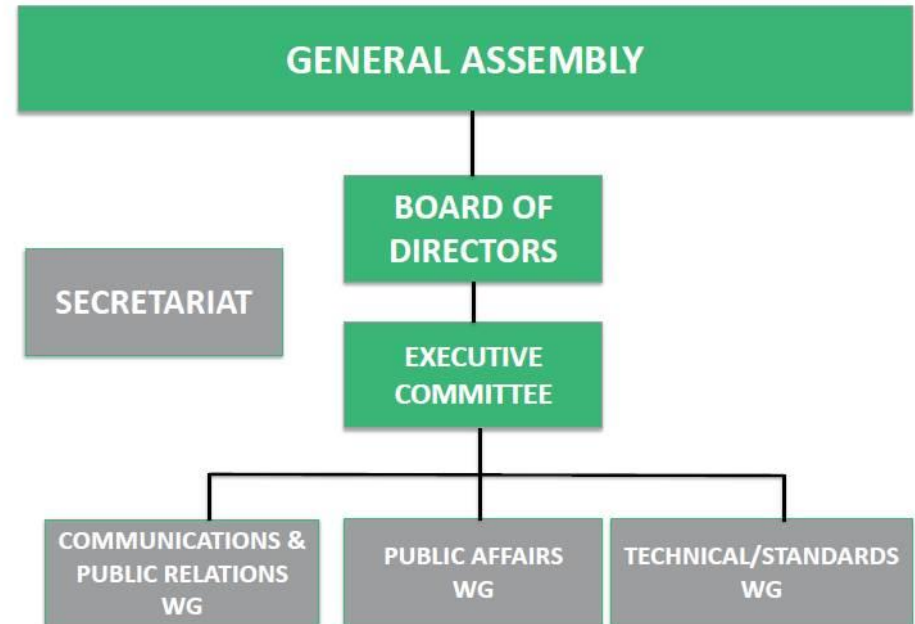
Statistics

- Identifying the framework for statistics

VIPA Organisation Chart

Executive Committee Members

- Roland Caps, va-Q-Tec
- Oved Shapira, Hanita Coatings
- Vladimir Pogač, Turna



Communications & PR	Public Affairs	Technical/Standards
• In-Sook Yoo, va-Q-Tec • Michel Chauvois, Rexor • Oved Shapira, Hanita • Vladimir Pogač, Turna • John Garbutt, Kingspan • Maja Tomazin, Knauf Insulation	• Raj Nagarajan, Owens Corning • Roland Caps, VA-Q-Tec • Hark-Oluf Asbahr, Evonik • Pascal Rousset, Rexor	• Justin Davies, Kingspan • Roland Caps, VA-Q-Tec • Yoash Carmi, Hanita • Liats, Hanita • Estelle Perrin, Rexor

2014 Milestones

Creating the association

- Finalise the incorporation process
- Ensure the legal entity is created

Membership Outreach

- Reach out to the main market players
- Increase the number of manufacturer members

Public Relations & Communications

- Work on corporate identity (logo, tagline)
- Release the website of the association
- Publish two case studies

Public Affairs

- Map of policy initiatives for EU, China and USA
- Map of key stakeholders involved in buildings/energy efficiency debate in Brussels
- Develop a position on the standard being written by the CEN Technical Committee (CEN TC88/WG11)

First part of the meeting
For VIPA members
& invited companies

2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.1 Public relations and communications

3 Conference Calls of the Communications & PR WG:

- Vladimir Pogač, Turna
- Oved Shapira, Hanita Coatings
- Hark-Oluf Asbahr, Evonik Industries
- John Garbutt, Kingspan
- Maja Tomazin, Knauf Insulation
- Michel Chavois, Rexor
- Insook Yoo, va-Q-Tec

2.1.1 Approve new logo



See **Annex 2** explaining the concept behind the logo

2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.1.1 Approve new logo

VACUUM INSULATION PANEL



CREATING SPACE AND SAVING ENERGY

VACUUM INSULATION PANEL



CREATING SPACE AND SAVING ENERGY

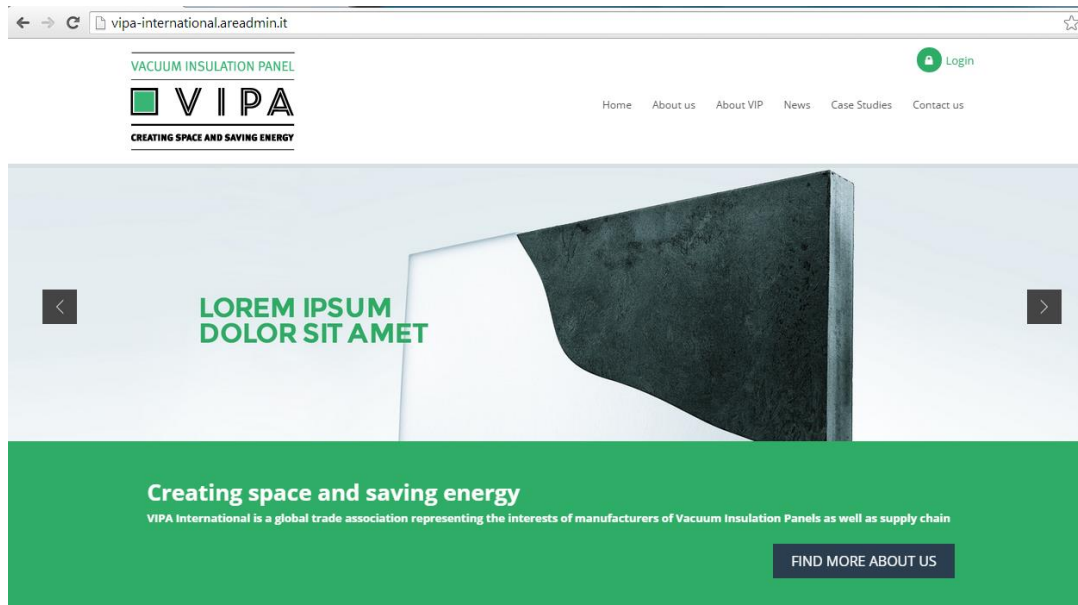
2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.1 Public relations and communications

2.1.2 Approve website of the association

<http://vipa-international.areadmin.it/>



*Content still being reviewed
by the Communications &
PR Working Group*

Next steps:

- Finalise content
 - Choose photos
 - English check
 - Circulate the link of the website for review by the Board before it goes live
- Provisional date to publish website: 2nd week January 2015***

2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.1 Public relations and communications

2.1.3 Approve case studies

First Case Study provided by Kingspan

VIP technology delivers optimum thermal performance with a minimal build-up to caring house in North Yorkshire, U.K.

Case study:

- Content finalised
- Layout: photos for header needed (1 photo per VIP application)

More case studies needed from other member companies!

VACUUM INSULATION PANEL

VIPA

CREATING SPACE AND SAVING ENERGY

1 photo per VIP application needed!



VIPA International Case Study

VIP technology delivers optimum thermal performance with a minimal build-up to care housing in North Yorkshire, U.K.

The Problem
The Meadowfields Extra Care Housing Scheme in Thirsk has been built through a partnership between North Yorkshire County Council, Hambleton District Council and Housing & Care 21. When completed, the site will incorporate 52 apartments along with a number of community features such as a restaurant, hair dressers and a new public library. The building roof comprises two pitched sections either side of a flat roof which sits above the central corridor. Even with premium performance rigid thermoset insulation, there was insufficient space in the central area to create the necessary fall whilst maintaining the target U-value of 0.15 W/m².K.

The Solution
To tackle this problem, the architect working on the project decided to install a Vacuum Insulation Panel (VIP) on the roof of the building. The vacuum insulation technology contributes to an aged thermal conductivity of 0.007 W/m.K, far lower than even the top performing traditional insulation alternatives. The vacuum insulation panels were specified to ensure the roof met its U-value requirements with a thinnest possible build-up.

The Result
All parties involved in the project were extremely satisfied with the end results. The architect stated: "one of the main conditions of the project's grant funding was that the Housing Scheme attained a BREEAM rating of "very good". Fabric performance was therefore a key consideration and the VIP roofing system helped us to achieve the required thermal performance without compromising the building design in any way." Victoria Barday, regional director for the North East at Housing and Care 21, said: "We're pleased that the necessary systems have been installed to provide optimal thermal performance for our residents, ready for them to move in next year. We promote sociability, independent living and choice for older people and always ensure that our apartments are designed and built to the highest standard to meet their needs."

Case Study provided by Kingspan Insulation Ltd.

VIPA International
Global Office

142 Avenue Jules
Bordet
1140 Brussels,
Belgium

Phone:
+32 2 761 16 81

Fax:
+32 2 761 16 99

About VIPA International:
The Vacuum Insulation Panel Association is a global trade association representing the interests of manufacturers of vacuum insulation panels as well as 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 of the potential to save space and energy costs and to reduce carbon dioxide emissions in a wide range of applications and industries. VIPA International is a 501 (c) (6) not-for-profit organisation incorporated under the law of the State of Delaware in the United States of America. The association was created in August 2014 by nine founding members. For more information visit the website: www.vipa-international.org or contact the global office at: VIPA-international@kellen-europe.com

2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.2 Regulatory affairs

2.2.1 Map of key policy initiatives in Europe, USA and China on energy efficiency with impact on VIPs

2.2.2 Map of Brussels' based stakeholders involved in the buildings' debate

See Annex 4

2. Roadmap 1st year of activities of VIPA

2. Roadmap 1st year of activities of VIPA – report on progress made

2.4 Technical/Standards

1 conference call of the Technical WG:

- Roland Caps, va-Q-Tec
- Matthias Geisler, Evonik Industries
- Liat Suari, Hanita Coatings
- Pascal Rousset/Estelle Perrin, Rexor
- Justin Davies, Kingspan
- Yoash Carmi, Hanita Coatings

2.4.1 Discussion and decision on reports/studies to be financed by VIPA

Suggestions made by Technical WG:

- Accurate testing and calculation methods of edge effect
- Accurate testing and calculation methods of effective thermal conductivity of VIP
- Ageing process - accurate measurement of the continuous increase of thermal conductivity of the VIPs (within some days) to get information on the extrapolated value beyond 20 years
- Finding the best (most relevant) acceleration conditions (with special emphasis for refrigerators) in thermal conductivity tests
- Measurement of VIPs internal pressure using liftoff technique
- Characterization of getter used in VIP

2.4.2 Status of the CEN standard discussions

3. Roadmap 2nd year of activities of VIPA 2015

3. Discussion and decision on roadmap for 2nd year of activities - 2015

3.1 Public Relations and communications (promotion of VIPs)

Objective; scope; audience; message

3.2 Public affairs and advocacy

Any concrete urgency: China building regulation? Japan building regulation?

Other legislative obstacles in other parts of the world?

3.3 CEN Standard

Studies financed by VIPA to support the standardisation process

3.4 Participation at IVIS in China, September 2015 (<http://ivis2015.nuaa.edu.cn/>)

Keynote speech by VIPA International President, Roland Caps

VIPA International to sponsor the event:

- Gold sponsor: 16,000\$
- Silver sponsor: 8,000\$
- Bronze sponsor: 4,000\$

Possible contribution to IEA Task 65?

3. Roadmap 2nd year of activities of VIPA 2015

2015 Milestones

Membership Outreach

- Increase the number of manufacturer members
- Gather associate members

Public Relations & Communications

- Improve website
- Publish case studies
- ?

Public Affairs & Advocacy

- ?
- ?

CEN Standard Technical

- Develop a position on the standard being written by the CEN Technical Committee (CEN TC88/WG11)
- Commission technical studies to research institutes

Second part of the meeting
For VIPA members only

Review of the action items of the previous meeting - 17 September

- Kellen Europe to ask Alias to start working on the website and inform what is the possible release date. **DONE**
- VIPA secretariat to inform Thermal Visions and Microtherm of what was discussed about their remarks to the scope of the association. **DONE**
- Raquel Ponte Costa to make any needed adaptations to the Bylaws to accommodate the decision of having a new membership category: associate members. **DONE**
- VIPA secretariat to double-check with the lawyer the clause in article 15 regarding conflict of laws. **DONE**
- VIPA secretariat to make all changes to the Bylaws as agreed during the meeting and circulate the final draft to the membership by 1 October 2014. **DONE**
- All members to review the final draft Bylaws and send any comments or suggestions to the secretariat before 15 October. **DONE**
- All members to send to the secretariat the names and email addresses of the other colleagues that will join the WGs. **DONE**
- The Technical Working Group to come up with proposals on reports and studies, bearing in mind the budget of 18,000 EUR. **DONE**
- All members to send to the secretariat the contact details of the companies that should be approached. **DONE**

Review of the action items of the previous meeting - 17 September

- VIPA secretariat to circulate the power point presentation created for membership outreach activities **DONE**
- All members to get in touch with the companies listed as top priority and inform them about the creation of the association **?**
- Oved Shapira to get in touch with Panasonic **DONE**
- Rexor to ask the organisers of the IEA Annex 65 meetings for a speaking slot during the next meeting to introduce VIPA International **DONE**
- VIPA secretariat to organise a conference call for the Technical WG. **DONE**
- The Technical WG to invite manufacturers using other technologies to participate in the discussion about the calculation of thermal conductivity and ageing process. **?**
- VIPA secretariat to include in the agenda of the next Board meeting participation at the IVIS event in September 2015 in China. **DONE**

4. Governance & membership

4. Governance & membership

4.3 Finalization of the incorporation process

4.4 Approval VIPA International Code of Conduct and Antitrust Compliance Statement

To be signed by all companies when they join the association together with the membership application form

See Annex 6 and 7 code of conduct and antitrust compliance statement

4.5 Approval membership application form

Concrete membership criteria to be developed in 2015

See Annex 8 membership application form template

4.6 Reporting on membership outreach efforts

4.6.1 Approval new members: Camvac; Microtherm; Creek and Hongda

Confirmed membership Jan 2015 (completed membership application form):

- Camvac
- Microtherm
- Creek
- Hongda

See Annexes 9, 10, 11 and 12 membership application forms

4. Membership Outreach Efforts

4.6.2 Companies contacted and feedback received

26 Companies Contacted – status & feedback received

Companies Still considering:

Kuraray Eval: internal consideration

Saes Getters: internal consideration

Porextherm: might join after 4 Dec meeting

The Vac Company: might join after 4 Dec meeting

Variotec: internal consideration. Considers membership fee expensive

Not joining for the moment:

Saint-Gobain Isover: not joining for time being, but perhaps later

Thermal Visions: too much focus on Europe and little emphasis on US

Vaku Isotherm: fee is too expensive

NanoCool: membership is not appropriate as NanoCool is more a customer

Panasonic: not joining for the time being

Kevothermal: not joining for the time being but want to be kept informed

4. Membership Outreach Efforts

4.6.2 Companies contacted and feedback received

No reply:

- American Aerogel
- Asahi Fiberglass
- Dow Corning
- Polyglass
- International Converters
- LG Hausys
- Nanoporeinsulation
- Huhtamaki North Europe
- OCI

No contact information:

- Bifire (IT)
- Caralon (US & UK)
- Isoleika (ES)
- KCC (South-Korea)
- Siltherm (China)
- BASF (DE)
- Wacker (DE)
- EKO (JP)
- NPC (JP)
- Suzhou (China)

4. Membership Outreach Efforts

4.6.3 Academia

Next steps – contact Academia

- ZAE, Germany
- FIW, Germany
- NRC, Canada
- NUAA (Nanjing Univ.), China
- CSTB, France

2014 Budget

Payment membership fee invoices received:

10/14 – KIBBUTZ HANITA

10/27 – EVONIK INDUSTRIES

11/12 – KNAUF INSULATION

11/20 - REXOR

11/28 – TURNA PROIZVODNJA

12/1 – VA-Q-TEC

Companies still in default of payment:

- Fujian Super Tech (China)
- Kingspan (UK/Ireland)
- Owens Corning (USA)

2014 Budget

Invoices received
but not yet paid

Item	Estimate April 2014	Status Nov 2014	Estimate Year end
Income 10 members, 10,000 EUR fee each	100,000	60,000	90,000
Expenditure			
Incorporation of the association in US	5,000	5,000	5,000
Website & corporate identity	10,000	3,000	10,000
Miscellaneous costs (eg <i>registration name, bank account</i>)	4,000	0	4,000
Kellen Europe fees for secretariat and management	60,000	59,077	59,077
Out of pocket costs (<i>meetings & travel expenses</i>)	3,000	2,698.42	4,000
Reports, studies (<i>still to be decided</i>)	18,000	0	0
Total Expenditure	100,000	69,775	82,007
Result	0	-9,775	7,993

9 Members only

Proposed 2015 Budget

Income (13 members confirmed Nov2014, 10,000 EUR fee each)	130,000
Income carried over from 2014	7,993
Expenditure	
Kellen Europe fees for secretariat and management	?
Public Affairs	?
Marketing & Communications	?
Technical/Standards	?
Out of pocket costs (<i>meetings related: rooms, catering, travel, etc</i>)	?
Legal expenses	?
Total Expenditure	137,993

2015 Calendar Face-to-Face Board Meetings & General Assembly

- **Board meetings:** at least three meetings a year (physical or conference call)
- **General Assembly:** once a year – preferably face-to-face meeting

Rotate between continents?

China, Nanjing

18 September as of 14:00

General Assembly and Board Meeting (eventually WGs meetings as well)?

Other dates and locations

Early April 2015?

7. Any other business

Any other business ?

Vacuum Insulation Panel Association

VIPA International

Raquel Ponte Costa

Bénédicte Lambert

Francesco Gattiglio

Hans Craen

VIPA-international@kelleneurope.com

Phone: +32 2 761 1681

Fax: : + 32 2 761 16 99