Promat

Ready for the future

With SLIMVAC® vacuum insulation panels, an entire home or office can be insulated to the highest standards without unnecessary loss of space.

When designing façades, floors, ceilings, and interior walls, it is now possible to reduce the heat transfer in a new build or a refurbishment project to the absolute minimum, while maximizing the use of the available space.

Moreover, SLIMVAC® is easy to install without major changes to the structure of the building.

Ask for advice

Are you also convinced of the benefits of SLIMVAC® and would like some more information? Our specialists are ready to provide you with detailed and expert advice.

How to order?

SLIMVAC® system can be ordered through direct contact with one of our specialists.

www.promat.us

Contact
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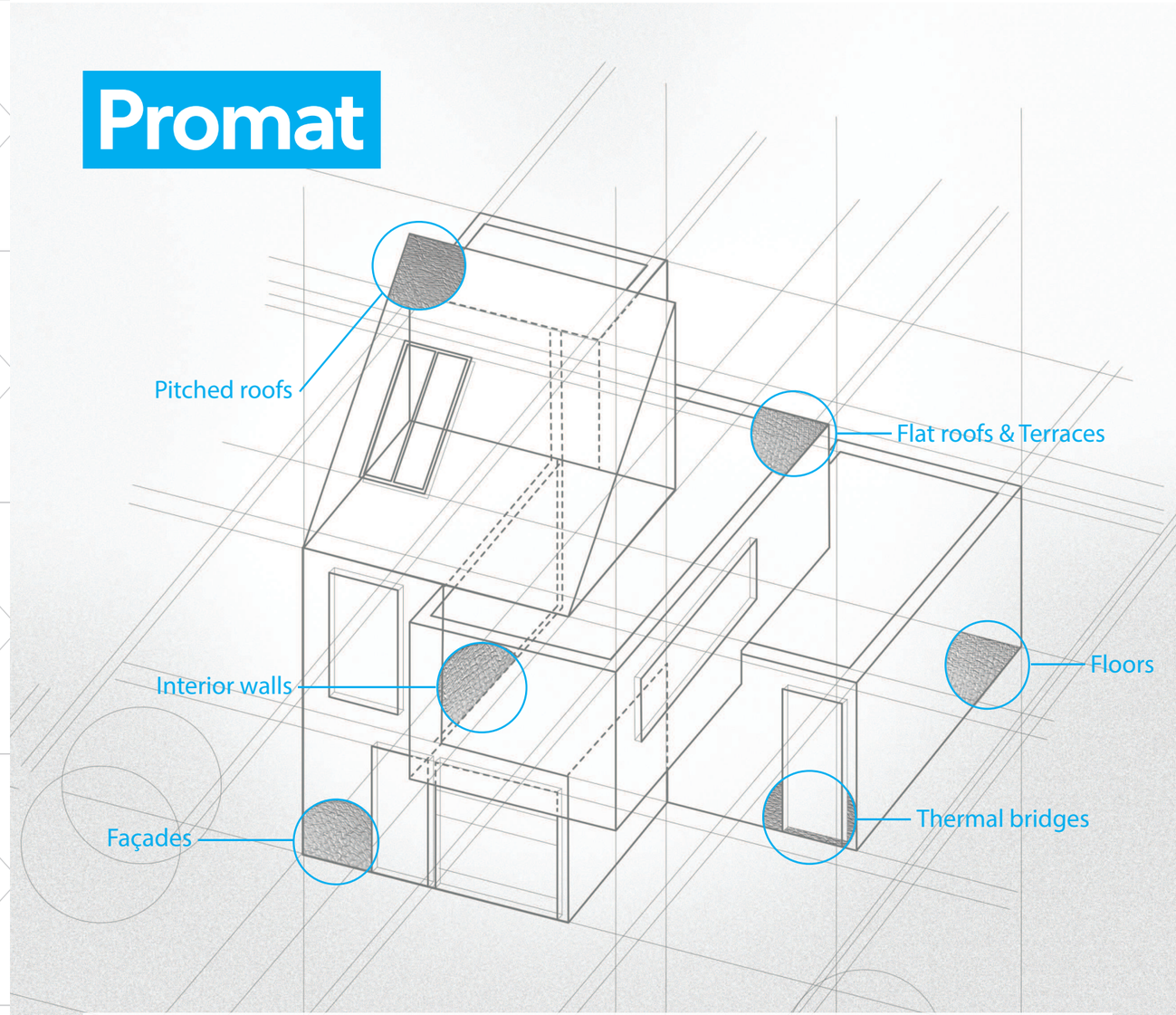
SLIMVAC
ultra-thin, ultimate efficiency

Promat



Versatile high-tech vacuum insulation
Ultra-thin, ultimate efficiency

High Performance Insulation

Promat

SLIMVAC

ultra-thin, ultimate efficiency

Applications

Ceilings beneath a pitched roof

Would you like a stylish and energy-saving top floor without the need for thick insulation layers under the roof? With SLIMVAC® it is possible to save considerable space enabling an area to be furnished without compromise, but more importantly, without unnecessary energy use.

Interior walls

Looking for a way to optimize your energy consumption without sacrificing space and comfort? By insulating walls with SLIMVAC®, rooms are kept efficently cool in summer, warm in winter. This allows the best possible utilization of internal living or working space.

Façades

Heat transfer through a façade has a big impact on energy consumption. By insulating the exterior walls with SLIMVAC®, the amount of heat transferred through the façade can be limited to the absolute minimum thus saving energy.

Flat roofs and terraces

Is excessive heat transferred through a flat roof or terrace? Would conventional insulation create a problem with the terrace floor elevated higher than the internal floor? With SLIMVAC®, avoid unnecessary heat transfer but still keep any height difference between inside and outside to an absolute minimum.

Tile and plank floors

Wasting heat through the floor is expensive and can certainly be avoided. The SLIMVAC® insulation panels ensure that the floor is ideally insulated without having to be deeply excavated.

Thermal bridges

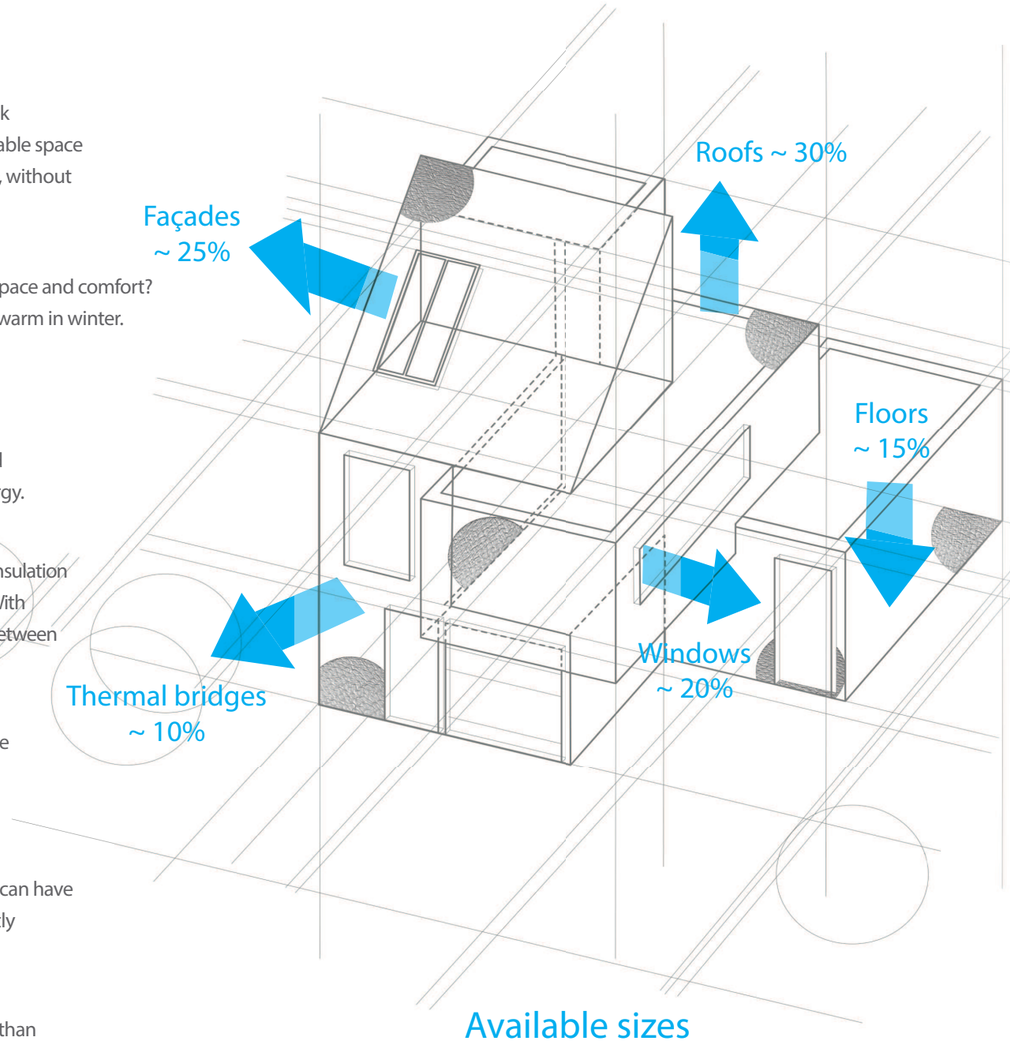
Moisture, mould, health problems ... heat transfer caused by thermal bridges can have far-reaching consequences. Thanks to SLIMVAC®, thermal bridges can be subtly neutralized leaving an unblemished interior.

Versatile high-tech insulation

Did you know that SLIMVAC® is also ideally suited to many applications other than dwellings and office buildings? Due to its ultra-compact size and especially high insulation capacity, SLIMVAC® is perfect for passive constructions, modular buildings, timber frame structures, composite elements with concrete, wood or steel, cold rooms and curtain wall and glass façades.

Energy loss in the house

The blue arrows show an estimate of the energy loss that occurs due to insufficient insulation. The real values depend on the type of house and the materials used and may differ from this presentation. Arrow shown are for a winter heating condition but energy savings also apply to cooling in warmer climates.



Available sizes

SLIMVAC® is available in the following standard sizes:

Length (in)	Length (mm)	Width (in)	Width (mm)	Thickness inches (mm)
51.18	1300	23.62	600	0.79, 0.98, 1.18, 1.57 (20, 25, 30, 40)
47.24	1200	23.62	600	
39.37	1000	23.62	600	
23.62	600	23.62	600	
23.62	600	19.69	500	
23.62	600	15.75	400	
23.62	600	7.87	200	
15.75	400	11.81	300	

(Other sizes available on request)

Save space and energy Insulate with SLIMVAC®

SLIMVAC® is a true high-tech product. Unlike conventional insulation, SLIMVAC® panels are specially manufactured to contain no air. As a result, they achieve the same performance level as a conventional structural insulation but with a much smaller thickness. This ensures more available internal space and lower energy consumption for any building. Why be satisfied with less?

- Very low thermal conductivity: K-value 0.0042 W/m.K* (0.029 Btu-in/Hr-ft²-°F)
- After allowance for thermal bridges and aging: K-value 0.0061 W/m.K* (0.042 Btu-in/Hr-ft²-°F)
- High thermal resistance (R value): R = 34.5 at a thickness of 1" (25.4mm)
- After allowance for thermal bridges and aging: R = 23.8 at a thickness of 1" (25.4mm)
- Heat resistant up to 80 °C (176°F)
- Moisture resistant up to 60 %
- Non-combustible
- Contains no harmful fibres and can be largely recycled

* At a density of 170 kg/m³ – tested according to ASTM C518 & ISO 8301 at a temperature of 10 °C.

R Value (per inch)