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SLIMVAC® offers smarter route to ultra-thin, lightweight thermal insulation

The SLIMVAC® range of ultra-thin vacuum insulated panels from Promat UK utilises next generation materials technology to deliver the highest levels of thermal insulation in all kinds of applications, without the bulkiness associated with traditional insulating products.

With standard thicknesses of between just 20mm and 40mm, SLIMVAC® panels are ideal for applications where space constraints pose a challenge to delivering on thermal goals. It is an effective insulation for a wide range applications including structures, flat roofs and facades and has excellent potential for insulating white goods, refrigerated transport and temperature controlled packaging, with the benefit of being manufactured by Promat in ISO 9001: 2015 and ISO 14001:2015 factories for consistent quality assurance and supply chain traceability.

Already proven in markets throughout the rest of the world, SLIMVAC® is now available to UK customers. Its composition is the result of Promat's extensive global R&D programme, which strengthens its position as a market-leader in thermal, fire and acoustic insulation. The product features an opacified fumed silica based core and outer envelope of an ultra-low permeation barrier film, and panels do not contain air. They achieve the same thermal ratings as conventional structural insulation, but in a much thinner format with guaranteed long term, stable performance.

Ian Cowley, Regional Director (UK and Scandinavia) at Promat UK says: "SLIMVAC® is a future-ready insulation solution that gives designers, engineers and clients excellent scope to deliver superior thermal performance in numerous applications. It is no surprise that vacuum insulated panels are gaining in popularity, and now with the launch of SLIMVAC® in the UK, the market can apply this advanced insulation technology with total confidence thanks to the technical and corporate backing of a global market leader."

The centre of a SLIMVAC® panel has a coefficient thermal conductivity of 0.004 W/m.K, and 0.007 W/m.K, taking into consideration ageing effects and thermal bridging. A unique SLIMVAC® package helps to deliver the optimum performance levels and allows for easy installation. This includes SLIMVAC®-TAPE, which ensures the insulation panels are not adversely affected when joined, and SLIMVAC Top and Floor covers that protect SLIMVAC® panels and level out imperfections of substrates.

Based at its HQ and manufacturing plant at Heywood near Manchester, Promat UK is a market leader in thermal, fire and acoustic protection solutions. Part of the global Etex Group, the company manufactures high performance insulation for numerous hi-tech, engineering and industrial

applications, as well as the building sector. These range from Formula One racing, train rolling stock and aircraft manufacture, to offshore wind turbines, the nuclear industry and white goods.

Find out more at www.promat-industry.co.uk.

Pictures show:

Installation of SLIMVAC® ultra-thin vacuum insulated panels from Promat UK.



SLIMVAC® ultra-thin vacuum insulated panels from Promat UK (product photo).

