



**Re: Kingspan Insulation Products - Ozone Depletion Potential and Global Warming Potential**

Further to your correspondence with this office, reference the above mentioned query we have pleasure in confirming the following:

The Kingspan Therma PIR range e.g., Kingspan TW55, TP10, TF70, TR27 LPC / FM, TR26 LPC / FM, Kingspan Thermataper TT47 LPC / FM , TT46 LPC / FM etc., and the Kingspan Kooltherm Phenolic range e.g., Kooltherm Koolduct, K3, K12, K15, K8, K7, K5 EWB, etc., manufactured in the UK and Ireland are of a rigid urethane and phenolic insulation core and are produced using alternative blowing agents (cyclo-pentane mix) in accordance with the Montreal Protocol which both are CFC / HCFC free with zero ozone depletion potential (ODP) and a global warming potential (GWP) of 3.

Kingspan K106 & Kingspan K108 have a GWP less than 3, an ODP of zero and the primary blowing agent is HFO (Hydrofluoroolefin)

Kingspan Styrozone CO<sup>2</sup> extruded polystyrene range e.g., N300R, N500R and N700R are produced using a CO<sup>2</sup> blowing agent in accordance with the montreal protocol, which again are CFC / HCFC free with zero ODP. These three products, however, have a GWP of 1.

We can also confirm that the Kingspan Thermabate / Thermabate Plus cavity closers use water as the blowing agent and therefore has zero ODP and a GWP of 1 as the insulation gas is carbon dioxide, which itself has a GWP of 1.

Optim-R does not use a blowing agent so therefore has zero ODP and GWP.

Kingspan OPTIM-R comprises a rigid vacuum insulation panel with a microporous core which is evacuated, encased and sealed in a thin, gas-tight envelope. The microporous core comprises of 3 main components namely, fumed silica, silicon carbide and PET fibres.

The only Kingspan Products which do not have a GWP of less than 5 are the following: Kingspan Thermafloor TF73, Kingspan Pulcrete Chevron and Kingspan Styrozone H350R, however, they are HCFC / CFC free with zero ODP.

We trust that the foregoing information is of assistance and in the event of any further queries please do not hesitate to contact the undersigned.

Kind regards,

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