



Celotex Polyisocyanurate (PIR) Rigid Insulation Boards - Deleterious Materials Lists & Fire Performance

Celotex fully appreciate and respect a client or designer's preference to use certain materials, however, the selection process should be based on sound and reliable information where the technical basis for choice is clearly established.

Celotex FR5000, CG5000, TB4000, GA4000, XR4000, PL4000, CW4000, FF4000, TA4000, SW3000, TC3000 and EL3000 are rigid polyisocyanurate foam PIR thermal insulation boards, and are manufactured by continuous auto-adhesive lamination between either aluminium foil or coated glass tissue facings. These boards have Zero Ozone Depletion Potential (ODP), low (less than 5) Global Warming Potential (GWP) and conform to Montreal Protocol requirements and the Harmonised European Standard (BS EN 13165:2012).

Celotex PIR is a rigid insulation board formed from two liquid chemical components which naturally react together. No unwanted or hazardous by-products are given off during the reaction and, because the liquid components react completely, there is no potential for later exposure to the original chemical components. The polymeric structure of the rigid foam insulation is regarded as inert and is land fill safe.

If concern is expressed on the fire performance of PIR, it should be noted that Celotex products have repeatedly proven to show unique performance characteristics in a continuing programme of large scale "Reaction to Fire" tests.

With reference to smoke emission, it is possible to analyse smoke and identify the gases contained therein. A gas element considered to be dangerous is described as Hydrogen Cyanide. Analysing tests conducted by independent laboratories have not been able to find any measurable traces of this element in smoke produced by PIR insulation. Laboratory tests have concluded by comparing the smoke developed by PIR as similar to that produced by timber.

Wherever possible and where deemed necessary, Celotex commission recognised third party assessment organisations to investigate, assess and certificate products, product applications and compliance with all relevant mandatory Regulations and Codes.

In summary, Celotex know of no substantial reason why Celotex PIR Insulation Boards should be either banned or deemed deleterious.

Celotex
February 2013

Registered Office: Saint-Gobain House, Binley Business Park, Coventry, CV3 2TT
Registered in England No 2183896