

# Kingspan keeps some of its best ideas in cold storage



Einstein turned our ideas of the universe on their head; now Kingspan does the same for insulated panels.

Think about it! The big question in modern cold store construction is not "How cold?" It's "How hot?" How much exposure to a fire source can the panels withstand before they combust? And at what temperature do they melt and spread the fire? Some of the most tragic fires in modern times, fires that have destroyed businesses and people's lives and poisoned the surrounding district with toxic gases, have been fires in cold stores which incorporate polystyrene (EPS) insulation in walls and ceilings.

On the other hand, Kingspan FireSafe thermosetting foam cores do not promote fire spread. They are fire resistant to 1,000°C for over 75 minutes. The first Factory Mutual (FM) approved, to unlimited height, Kingspan Firesafe PIR panel system to be made in Australia, it allows property owners and tenants to secure affordable

insurance, not just for today, but for the lifetime of the building. EPS is thermoplastic that melts and drips at 180°C and therefore cannot achieve FM classification.

The use of insurer-approved products is increasingly being insisted upon by the insurance industry and provides the tenants with building lifetime protection. The same clever design that suppresses fire spread also provides a more efficient temperature, vapour and moisture barrier, resulting in lower energy costs. PIR is twice as thermally efficient as EPS. FM approval to unlimited height offers designers and owners more options and maximum space utilisation.

You don't have to be Einstein to see that Kingspan manufactures good ideas that save money, time and lives.

**For more information  
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