

Technical Update

Kingspan **ECOsafe** & **FIREsafe** Isophenic (I.P.N.) Foam Technology

The chemical formulations are now finalised and the engineering work is complete. We are now able to offer all products with our **FIREsafe** foam core which offers significant improvement in fire performance in addition to the environmental benefits of our **ECOsafe** foam core.

The **FIREsafe** foam core replaces the standard polyurethane (PU) technology with **Kingspan own Isophenic (IPN) technology**, which is a uniquely developed high index polyisocyanurate (PIR), the benefits of which have been used extensively throughout Europe for a number of years in our Roof & Walls systems.

We are in the process of moving all production from the standard PU to **ECOsafe** & **FIREsafe** Isophenic (I.P.N.) core, but if you have any specific project requirement from now please speak to your Sales Manager.

For the future, all Kingspan panels for both residential and industrial applications will be manufactured to this specification as standard and will be fully **certified to EN13501** which is the European wide classification for construction products for fire resistance and reaction to fire.

Within this classification, there are two tests:

- ✓ **EN 13823** which measures reaction to fire
- ✓ **EN 11925-2** which is an ignitability test.

Our IPN product, in line with work we have done to date and from our experience with Roof & Wall panels will be classified as follows:

B s2 d0

B is a measure of **reaction to fire**.

s2 is a measure of **smoke**.

d0 is a measure of **ignitability**.

