



Prihoda UK Ltd
Units 5 & 6
George Holmes Way
Swadlincote
Derbyshire
DE11 9DF

☎ 0121 320 2496
@ info@prihoda.co.uk
🌐 www.prihoda.co.uk

Prihoda Ireland Ltd
Skillings House
Howth Road
Raheny
Co. Dublin
Ireland

☎ +353 1 961 0031
@ info@prihoda.ie
🌐 www.prihoda.ie

FBD Insurance Dublin

FBD Insurance is one of Ireland's largest insurers, with regional offices nationwide. Started in the 1960s by Irish farmers, today FBD has over 500,000 customers and insures cars, homes, businesses and farms, as well as offering pensions and investment services.

Based in Dublin, FBD Insurance has a large office building (FBD House) to the west of the city centre which has an administrative function over several floors. Due to its shape, FBD House has two large, long façades, one of which is predominantly southern facing. The large windows in each façade create different environmental requirements within the open floors of the building, with more cooling required on the southern side.

The Problem

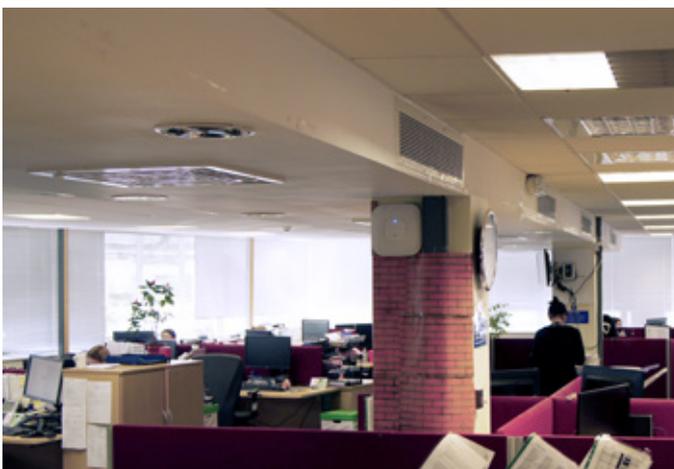
The building's centralised air conditioning system was installed back in the 80s – with rigid ducting and grilles running along a central spine east to west across the building, supplying air to each side of the open plan office spaces. Velocity, discomfort and a lack of local control had become the primary issues during cooling.

Over the years, FBD had tried several different schemes to try to improve the situation and alleviate the comfort issues. Grilles had been changed, in some places



adjustable nozzles installed. Eventually large sections of ducting were blanked off to avoid complaints about velocity discomfort, which led instead to complaints in other areas over a lack of cooling.

In 2014 an opportunity arose to address the 'Air Conditioning Problem' once and for all. A major investment was scheduled to renovate, modernise and revitalise several of the open plan floors. FBD called in their AC contractor and asked for their help in resolving the problem, specifically the imbalance across different parts of the floors and the discomfort caused by detectable air velocity. Crossflow Airconditioning Ltd of Dublin looked after the building's AC maintenance. Pdraig Hanvey of Crossflow knew that the central plant was still working pretty well: it was the air distribution causing the problems. Having worked with us on lots of projects over the years, Pdraig called Prihoda.



Existing system



Prihoda UK Ltd
Units 5 & 6
George Holmes Way
Swadlincote
Derbyshire
DE11 9DF

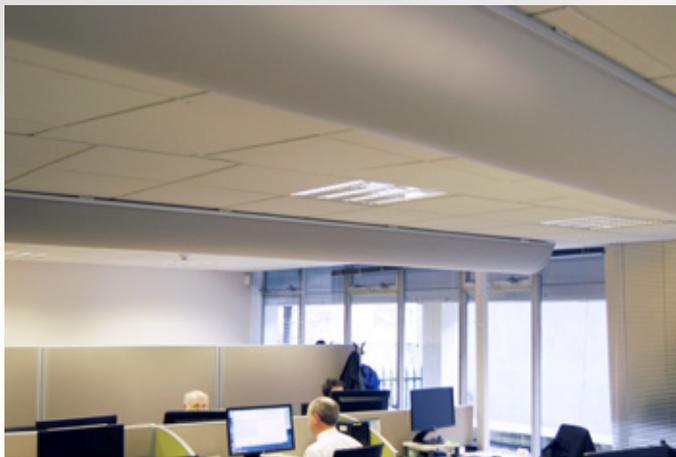
☎ 0121 320 2496
✉ info@prihoda.co.uk
🌐 www.prihoda.co.uk

Prihoda Ireland Ltd
Skillings House
Howth Road
Raheny
Co. Dublin
Ireland

☎ +353 1 961 0031
✉ info@prihoda.ie
🌐 www.prihoda.ie

FBD Insurance Dublin

After an initial quotation to establish the financial viability of the scheme, we created detailed proposals including bespoke air pattern and velocity graphics to address the customer's primary concerns. We also supplied samples for architectural/interior design approval in terms of colour and overall look.



Sustainability

Excitingly, the client also chose to install fabric ducting made from 100% post-consumer recycled material. Across the two floors, FBD insurance reused 2,262 500ml plastic bottles which had been previously used and thrown away.

Using this existing waste resource meant a reduction of 50% of the water and 66% of the energy used in the production of our recycled material. As a consequence,



it also reduced the amount of greenhouse gas emitted during production by 34%.

Furthermore, by choosing to buy this material, which is in itself recyclable, FBD has created a virtuous circle in that no new resources have been used and what has been installed will eventually be recycled into something else.

Following the renovation of FBD House, we went to visit the project to look at the installation and discuss the result with FBD's Facilities Manager. The system works



better than imagined and regular complaints about the AC system are now a thing of the past. The open plan floors are comfortable, of an even temperature gradient and velocity free, even with ducts mounted over desks. Our patented micro-perforation diffusers avoid 'dumping' of cold air below the duct, which is unavoidable with permeable material fabric ducts alone (this video link shows a smoke test of this problem <https://vimeo.com/100693994>).



Prihoda UK Ltd
Units 5 & 6
George Holmes Way
Swadlincote
Derbyshire
DE11 9DF

☎ 0121 320 2496
@ info@prihoda.co.uk
🌐 www.prihoda.co.uk

Prihoda Ireland Ltd
Skillings House
Howth Road
Raheny
Co. Dublin
Ireland

☎ +353 1 961 0031
@ info@prihoda.ie
🌐 www.prihoda.ie

FBD Insurance Dublin

Fabric ducting in offices and other applications is a long term, low cost, reliable and cleanable solution to everyday ventilation and diffusion applications. Most suitable mounted 'in the space', the large surface area for diffusion allows improved distribution of air and more controlled velocity.

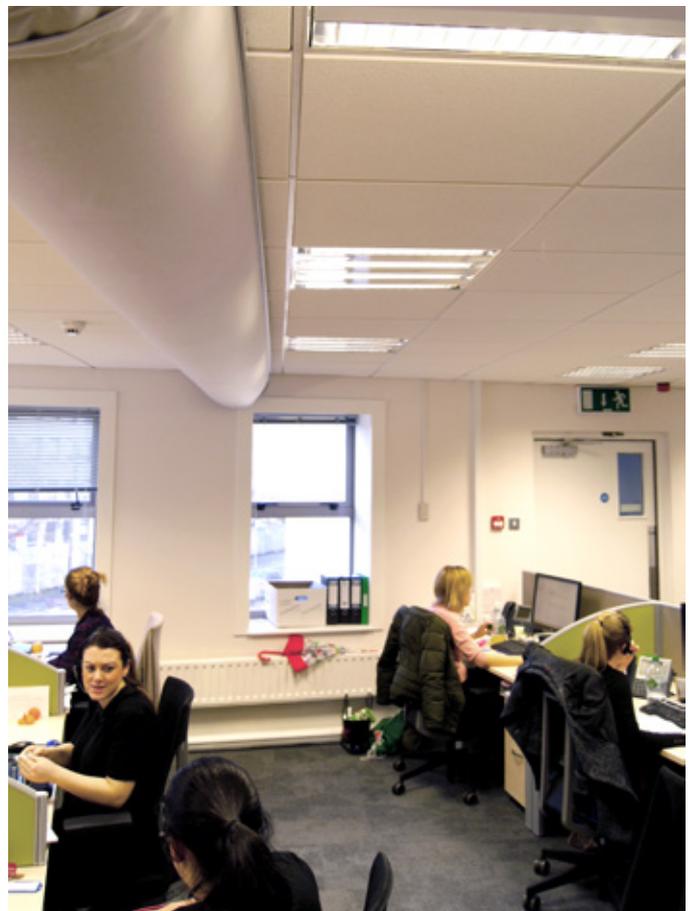
Contact us if you'd like to know more about how we can help your project.



Mounted over desks – velocity is minimal



100% post-consumer recycled material fabric ducts



Flame retardant and cleanroom non fibre-shedding